

2020 Index

IEEE Photonics Journal

Vol. 12

This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2020, and items from previous years that were commented upon or corrected in 2020. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

AUTHOR INDEX

A

- Abdul-Rashid, H.A.**, *see* Zubair, H., *JPHOT June 2020 6801525*
- Abiri, H.**, *see* Keshavarz, H., *JPHOT Aug. 2020 5501816*
- Ademgil, H.**, *see* Yasli, A., *JPHOT Feb. 2020 6800515*
- Adikan, F.R.M.**, *see* Zubair, H., *JPHOT June 2020 6801525*
- Adnan, A.**, Liu, Y., Chow, C., and Yeh, C., Demonstration of Non-Hermitian Symmetry (NHS) IFFT/FFT Size Efficient OFDM Non-Orthogonal Multiple Access (NOMA) for Visible Light Communication; *JPHOT June 2020 7201405*
- Aflatouni, F.**, *see* Sanjari, P., *JPHOT Dec. 2020 6602409*
- Aggoun, A.**, *see* Yasli, A., *JPHOT Feb. 2020 6800515*
- Ahmad, A.**, *see* Dhriti, K., *JPHOT Dec. 2020 4801010*
- Ahmad, F.**, Ramachandrapura, S., Manattayil, J., and Raghunathan, V., Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication; *JPHOT Aug. 2020 7904512*
- Ahmedi, K.**, Latorre-Carmona, P., Javidi, B., and Carnicer, A., Polarimetric Identification of 3D-Printed Nano Particle Encoded Optical Codes; *JPHOT June 2020 6500810*
- Ahmed, J.**, *see* Xie, S., *JPHOT Aug. 2020 6802008*
- Ahmed, M.**, Atta, M.A., and Bermak, A., Fast Detection and Tracking of a Moving Transmitter via Visible Light Communication Link; *JPHOT Aug. 2020 7904414*
- Ahmed, M.F.**, Hasan, M.K., Shahjalal, M., Alam, M.M., and Jang, Y.M., Experimental Demonstration of Continuous Sensor Data Monitoring Using Neural Network-Based Optical Camera Communications; *JPHOT Oct. 2020 7905011*
- Ai, Y.**, Mathur, A., Verma, G.D., Kong, L., and Cheffena, M., Comprehensive Physical Layer Security Analysis of FSO Communications Over Málaga Channels; *JPHOT Dec. 2020 7906617*
- Alalwan, A.**, Mohamed, T., Chakir, M., and Laleg, T.M., Extended Kalman Filter Based Linear Quadratic Regulator Control for Optical Wireless Communication Alignment; *JPHOT Dec. 2020 7907012*
- Alam, M.M.**, *see* Ahmed, M.F., *JPHOT Oct. 2020 7905011*
- Alazmi, E.**, *see* Shuaib, A., *JPHOT Dec. 2020 3700808*
- Ali, M.M.**, *see* Bilal, R.M.H., *JPHOT June 2020 4500913*
- Alkabani, Y.**, Miscuglio, M., Sorger, V.J., and El-Ghazawi, T., OE-CAM: A Hybrid Opto-Electronic Content Addressable Memory; *JPHOT April 2020 6600114*
- Alkhazragi, O.**, *see* Kong, M., *JPHOT Aug. 2020 7904713*
- Alkhazragi, O.**, *see* Guo, Y., *JPHOT Dec. 2020 7906413*
- Alkhazragi, E.**, Ragheb, A.M., Esmail, M.A., Tareq, Q., Fathallah, H., Alshebeili, S.A., Qureshi, K.K., and Khan, M.Z.M., Electro-absorption and Electro-optic Characterization of L-Band InAs/InP Quantum-dash Waveguide; *JPHOT June 2020 6601010*
- Alkhazragi, E.A.**, *see* Khan, M.Z.M., *JPHOT Oct. 2020 1504211*
- Almenar, V.**, *see* Vallejo, L., *JPHOT Feb. 2020 5500309*
- Almugren, K.**, *see* Zubair, H., *JPHOT June 2020 6801525*
- Alnakhli, Z.**, *see* Lin, R., *JPHOT Aug. 2020 4600907*
- Alonso-Ramos, C.**, *see* Zhang, W., *JPHOT Feb. 2020 2200108*
- Alouini, M.**, *see* Lei, H., *JPHOT April 2020 7901915*
- AlQatari, F.**, *see* Lin, R., *JPHOT Aug. 2020 4600907*
- Alshebeili, S.**, *see* Khan, M.Z.M., *JPHOT Oct. 2020 1504211*
- Alshebeili, S.**, *see* Esmail, M.A., *JPHOT Dec. 2020 7202510*
- Alshebeili, S.A.**, *see* Alkhazragi, E., *JPHOT June 2020 6601010*
- Altunbas, I.**, *see* Erdogan, E., *JPHOT Feb. 2020 7900313*
- An, Z.**, *see* Sun, X., *JPHOT Feb. 2020 6100508*
- Andrade, J.R.C.**, Modsching, N., Tajalli, A., Dietrich, C.M., Kleinert, S., Placzek, F., Kreipe, B., Schilt, S., Wittwer, V.J., Sudmeyer, T., and Morgner, U., Carrier-Envelope Offset Frequency Stabilization of a Thin-Disk Laser Oscillator via Depletion Modulation; *JPHOT April 2020 1500609*
- Andrews, A.M.**, *see* Wenclawiak, M., *JPHOT Oct. 2020 5900608*
- Anees, A.**, and Angermann, L., Energy-Stable Time-Domain Finite Element Methods for the 3D Nonlinear Maxwell's Equations; *JPHOT April 2020 6500415*
- Angermann, L.**, *see* Anees, A., *JPHOT April 2020 6500415*
- Ansari, I.S.**, *see* Lei, H., *JPHOT April 2020 7901915*
- Arabul, E.**, Paesani, S., Tancock, S., Rarity, J., and Dahnoun, N., A Precise High Count-Rate FPGA Based Multi-Channel Coincidence Counting System for Quantum Photonics Applications; *JPHOT April 2020 7500114*
- Arce, G.R.**, *see* Ma, X., *JPHOT Oct. 2020 3400217*
- Arvanitakis, G.N.**, Bian, R., McKendry, J.J.D., Cheng, C., Xie, E., He, X., Yang, G., Islim, M.S., Purwita, A.A., Gu, E., Haas, H., and Dawson, M.D., Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays; *JPHOT April 2020 7901210*
- Arya, S.**, and Chung, Y.H., ANN-Assisted Real-Time Blind Signal Detection Over Time-Varying Doubly-Stochastic Poisson Channel for Indoor Optical Wireless Communications; *JPHOT Oct. 2020 7904918*
- Arya, S.**, and Chung, Y.H., Capacity Maximization Using Nash Bargaining in Indoor Optical Multiuser Interference-Limited Poisson Channel; *JPHOT Dec. 2020 7906712*
- Asghar, H.**, and McInerney, J.G., Effects of Power Split Ratio and Optical Delay Phase Tuning on Stabilization of Self-Mode-Locked Quantum-Dash Lasers Subject to Dual-Loop Optical Feedback; *JPHOT April 2020 1502211*
- Ashry, I.**, *see* Mukhtar, S., *JPHOT April 2020 1502110*
- Atta, M.A.**, *see* Ahmed, M., *JPHOT Aug. 2020 7904414*
- Ayyash, M.**, *see* Shao, S., *JPHOT Feb. 2020 7900615*

B

- Ba, D.**, *see* Jiang, T., *JPHOT Aug. 2020 7102607*
- Ba, Z.**, *see* Lin, Z., *JPHOT June 2020 4600611*
- Babin, S.**, *see* Niang, A., *JPHOT April 2020 6500308*
- Bagmanov, V.K.**, *see* Lyubopytov, V.S., *JPHOT Feb. 2020 6100117*
- Bai, H.**, *see* Zhou, S., *JPHOT June 2020 6901311*
- Bai, W.**, *see* Lu, X., *JPHOT June 2020 5500911*
- Bai, Y.**, *see* Zhao, L., *JPHOT Feb. 2020 1500107*
- Bai, Y.**, *see* Sun, B., *JPHOT April 2020 1501607*
- Bai, Y.**, *see* Sun, B., *JPHOT June 2020 1502310*
- Bai, Y.**, *see* Zhang, L., *JPHOT June 2020 5501511*
- Bai, Y.**, *see* Qian, J., *JPHOT June 2020 3200306*
- Bai, Z.**, *see* Guo, Y., *JPHOT April 2020 7100610*
- Bandyopadhyay, S.**, shao, L., Smietana, M., Wang, C., Hu, J., Wang, G., He, W., Gu, G., and Yang, Y., Employing Higher Order Cladding Modes of Fiber

- Bragg Grating for Analysis of Refractive Index Change in Volume and at the Surface; *JPHOT Feb. 2020 7100313*
- Bandyopadhyay, S.**, see Shen, X., *JPHOT June 2020 6500609*
- Bao, H.**, see Liao, S., *JPHOT Dec. 2020 7801513*
- Baptista, A.**, see Torres, J.P.N., *JPHOT Feb. 2020 5500413*
- Baqir, M.A.**, see Bilal, R.M.H., *JPHOT June 2020 4500913*
- Barea, L.A.M.**, see Moras, A.L., *JPHOT Oct. 2020 6802910*
- Barmaki, A.**, see Pawlikowski, W., *JPHOT Oct. 2020 7905111*
- Basu, R.**, see Kumar, H., *JPHOT June 2020 6801814*
- Baumann, J.M.**, see Wang, J., *JPHOT Aug. 2020 6601408*
- Bayati, M.S.**, see Ebadi, S.M., *JPHOT June 2020 4800309*
- Begum, M.**, see Zubair, H., *JPHOT June 2020 6801525*
- Bermak, A.**, see Ahmed, M., *JPHOT Aug. 2020 7904414*
- Bernier, E.**, see Hasan, M., *JPHOT Oct. 2020 6802617*
- Bhandari, B.**, see Im, C., *JPHOT Oct. 2020 6601910*
- Bhandari, B.**, Im, C., Lee, K., Kim, S., Oh, M., and Lee, S., Compact and Broadband Edge Coupler Based on Multi-Stage Silicon Nitride Tapers; *JPHOT Dec. 2020 6602511*
- Bhandari, R.**, Orbital Angular Momentum (OAM) Mode Mixing in a Bent Step Index Fiber in Perturbation Theory: Multiple Bends; *JPHOT April 2020 7200510*
- Bhandari, R.**, Analytic Expressions for Orbital Angular Momentum Modal Crosstalk in a Slightly Elliptical Fiber; *JPHOT Dec. 2020 7202621*
- Bi, M.**, see Zhou, X., *JPHOT Oct. 2020 7202408*
- Bi, M.**, see Fang, J., *JPHOT Dec. 2020 7906110*
- Bi, W.**, Li, X., Liao, M., Wang, T., Kuan, P., Chen, L., Hu, L., and Gao, W., Ultraviolet-Extended Supercontinuum Generation in Zero-Dispersion Wavelength Decreasing Photonic Crystal Fibers; *JPHOT Dec. 2020 3200608*
- Bian, H.**, Yao, H., Lin, G., Yu, Y., Chen, R., Wang, X., Ji, R., Yang, X., Zhu, T., and Ju, Y., Multiple Kinds of Pesticides Detection Based on Back-Propagation Neural Network Analysis of Fluorescence Spectra; *JPHOT April 2020 6801009*
- Bian, J.**, see Liu, X., *JPHOT Aug. 2020 2400310*
- Bian, R.**, see Arvanitakis, G.N., *JPHOT April 2020 7901210*
- Bian, X.**, see Hu, S., *JPHOT Aug. 2020 6100910*
- Bidaki, E.**, and Kumar, S., A Raman-Pumped Dispersion and Nonlinearity Compensating Fiber For Fiber Optic Communications; *JPHOT Feb. 2020 7200117*
- Bilal, R.M.H.**, Baqir, M.A., Choudhury, P.K., Ali, M.M., and Rahim, A.A., Tunable and Multiple Plasmon-Induced Transparency in a Metasurface Comprised of Silver S-Shaped Resonator and Rectangular Strip; *JPHOT June 2020 4500913*
- Bohata, J.**, see Vallejo, L., *JPHOT Feb. 2020 5500309*
- Bohata, J.**, Komanec, M., Spacil, J., Slavik, R., and Zvanovec, S., Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz; *JPHOT June 2020 5501414*
- Bohata, J.**, see Nguyen, D., *JPHOT Dec. 2020 5502814*
- Boluda-Ruiz, R.**, Tokgoz, S.C., Garcia-Zambrana, A., and Qaraqe, K., Enhancing Secrecy Capacity in FSO Links via MISO Systems Through Turbulence-Induced Fading Channels With Misalignment Errors; *JPHOT Aug. 2020 7903313*
- Boluda-Ruiz, R.**, Rico-Pinazo, P., Castillo-Vazquez, B., Garcia-Zambrana, A., and Qaraqe, K., Impulse Response Modeling of Underwater Optical Scattering Channels for Wireless Communication; *JPHOT Aug. 2020 7904414*
- Bourisly, A.K.**, see Shuaib, A., *JPHOT Dec. 2020 3700808*
- Bradley, D.A.**, see Zubair, H., *JPHOT June 2020 6801525*
- Bradley, J.D.B.**, see Mbonde, H.M., *JPHOT April 2020 2200210*
- Brambilla, G.**, see Pan, J., *JPHOT April 2020 6800912*
- Bramhavar, S.**, see Kharas, D., *JPHOT Dec. 2020 1504612*
- Brandt-Pearce, M.**, see Hosseiniyanfar, H., *JPHOT Aug. 2020 7903416*
- Broderick, N.G.**, see Kazemzadeh, M., *JPHOT Aug. 2020 4800513*
- Bruhier, H.**, see Koussi, E.K., *JPHOT April 2020 2700111*
- Bukkapatnam, S.**, see Piao, D., *JPHOT Aug. 2020 3700523*
- Butt, R.A.**, see Memon, K.A., *JPHOT Feb. 2020 7200408*
- Cada, M.**, see Otman, N.A., *JPHOT June 2020 5900110*
- Cai, C.**, see Jin, L., *JPHOT April 2020 1500806*
- Cai, D.**, see He, D., *JPHOT April 2020 3900113*
- Cai, H.**, see Gu, J., *JPHOT Dec. 2020 7103612*
- Cai, J.**, Lin, J., Chen, Y., Xu, S., Ye, Y., Chen, E., and Guo, T., Stacked Encapsulation Structure for Discretely Distributed Quantum Dot Array; *JPHOT April 2020 7000310*
- Cai, L.**, see Li, C., *JPHOT Aug. 2020 7202211*
- Cai, M.**, see Wang, Y., *JPHOT Aug. 2020 7801009*
- Cai, R.**, see Chen, J., *JPHOT Oct. 2020 7905611*
- Cai, Y.**, Zhang, T., Pan, R., Hu, X., Ye, F., Zhang, W., Zhao, W., and Wang, Y., Compact, High-Performance All-Polarization-Maintaining Er: Fiber Frequency Comb With Single Fiber Actuator; *JPHOT Aug. 2020 7102508*
- Cai, Y.**, see Mao, X., *JPHOT Oct. 2020 5900408*
- Cai, Z.**, see Lei, S., *JPHOT Aug. 2020 8200509*
- Cao, C.**, see Wu, Z., *JPHOT Dec. 2020 5502313*
- Cao, J.**, see Chen, H., *JPHOT June 2020 1502413*
- Cao, J.**, see Wang, Y., *JPHOT June 2020 6100813*
- Cao, J.**, see Hao, Q., *JPHOT Oct. 2020 3800110*
- Cao, J.**, see Chen, H., *JPHOT Dec. 2020 7103412*
- Cao, L.**, see Sun, T., *JPHOT Feb. 2020 8400112*
- Cao, M.**, see Jin, L., *JPHOT April 2020 1500806*
- Cao, P.**, see Wang, Z., *JPHOT June 2020 4800410*
- Cao, Q.**, see Rahman, S.U., *JPHOT April 2020 4600204*
- Cao, S.**, see Wang, Y., *JPHOT June 2020 6801711*
- Cao, Y.**, see Lv, J., *JPHOT June 2020 7800810*
- Cao, Y.**, see Iroegbu, P.I., *JPHOT Oct. 2020 1503612*
- Cao, Y.**, see Liu, Y., *JPHOT Oct. 2020 4800810*
- Cao, Z.**, see Yang, B., *JPHOT Feb. 2020 5500109*
- Cao, Z.**, see Zhang, G., *JPHOT June 2020 7101008*
- Caputo, S.**, see Seminara, M., *JPHOT Aug. 2020 7903816*
- Carletti, L.**, see Rocco, D., *JPHOT June 2020 4500507*
- Carnicer, A.**, see Ahmadi, K., *JPHOT June 2020 6500810*
- Cassan, E.**, see Zhang, W., *JPHOT Feb. 2020 2200108*
- Castillo-Vazquez, B.**, see Boluda-Ruiz, R., *JPHOT Aug. 2020 7904414*
- Castro, W.**, see Dmitriev, V., *JPHOT Oct. 2020 4800913*
- Catani, J.**, see Seminara, M., *JPHOT Aug. 2020 7903816*
- Cen, Y.**, see Li, J., *JPHOT Oct. 2020 5900509*
- Chakir, M.**, see Alalwan, A., *JPHOT Dec. 2020 7907012*
- Chan, E.H.W.**, see Chen, H., *JPHOT June 2020 7201810*
- Chang, C.**, see Li, C., *JPHOT Oct. 2020 7202310*
- Chang, G.**, see Li, Y., *JPHOT April 2020 7201111*
- Chang, G.**, see Kumar, H., *JPHOT June 2020 6801814*
- Chang, G.**, see Shiu, R., *JPHOT June 2020 7902908*
- Chang, H.**, see Zhang, Y., *JPHOT Dec. 2020 6501113*
- Chang, P.**, see Shi, T., *JPHOT Aug. 2020 1503211*
- Chang, Q.**, see Zhang, Y., *JPHOT Dec. 2020 6501113*
- Chang, S.**, see Liu, S., *JPHOT Aug. 2020 6801908*
- Chang, S.**, see Liu, S., *JPHOT Aug. 2020 6801908*
- Chang, Y.**, see Chen, Y., *JPHOT April 2020 2400207*
- Chang, Z.**, see Wang, Y., *JPHOT June 2020 1502815*
- Che, J.**, see Chu, C., *JPHOT June 2020 1600207*
- Cheffena, M.**, see Ai, Y., *JPHOT Dec. 2020 7906617*
- Chen, A.**, see Zhang, M., *JPHOT Feb. 2020 4600109*
- Chen, B.**, see Zhang, L., *JPHOT Aug. 2020 6601208*
- Chen, B.**, see Lv, W., *JPHOT Dec. 2020 3901113*
- Chen, C.**, see Liu, S., *JPHOT Aug. 2020 6801908*
- Chen, C.**, see Chen, Y., *JPHOT April 2020 2400207*
- Chen, C.**, see Chen, Y., *JPHOT April 2020 2400207*
- Chen, C.**, see Chen, M., *JPHOT June 2020 4500609*
- Chen, C.**, see Zhang, X., *JPHOT June 2020 7903113*
- Chen, C.**, Deng, H., Zhong, F., Ji, Q., and Li, Q., Effect of Viewpoints on the Accommodation Response in Integral Imaging 3D Display; *JPHOT June 2020 7000414*
- Chen, C.**, see Lin, S., *JPHOT Oct. 2020 1503509*

- Chen, C., see Wu, Y., *JPHOT Oct. 2020 7000913*
- Chen, C., see Yu, Y., *JPHOT Oct. 2020 6501012*
- Chen, D., see Wang, H., *JPHOT Feb. 2020 6800606*
- Chen, D., see Liu, C., *JPHOT Oct. 2020 8400312*
- Chen, E., Liu, S., Lu, P., Zhang, J., and Lian, Z., Tunable 2 μm Fiber Laser Utilizing a Modified Sagnac Filter Incorporating Cascaded Polarization Maintaining Fibers; *JPHOT Feb. 2020 1500507*
- Chen, E., see Cai, J., *JPHOT April 2020 7000310*
- Chen, G., see Gao, Y., *JPHOT June 2020 7903011*
- Chen, H., see Chen, P., *JPHOT Aug. 2020 7000711*
- Chen, H., see Meng, Y., *JPHOT Aug. 2020 7904211*
- Chen, H., see Li, J., *JPHOT Aug. 2020 6601309*
- Chen, H., see Cui, J., *JPHOT Aug. 2020 6802208*
- Chen, H., see Min, C., *JPHOT April 2020 7500310*
- Chen, H., see Yang, B., *JPHOT April 2020 6600409*
- Chen, H., see Hu, C., *JPHOT June 2020 6500609*
- Chen, H., Zhao, Y., Hu, F., and Chi, N., Nonlinear Resilient Learning Method Based on Joint Time-Frequency Image Analysis in Underwater Visible Light Communication; *JPHOT April 2020 7901610*
- Chen, H., see Shen, X., *JPHOT June 2020 8200313*
- Chen, H., Cao, J., Huang, Z., Tian, Y., Pan, Z., Wang, X., and Chen, J., Experimental Investigations on TMI and IM-FWM in Distributed Side-Pumped Fiber Amplifier; *JPHOT June 2020 1502413*
- Chen, H., Chen, X., Lu, J., Liu, X., Shi, J., Zheng, L., Liu, R., Zhou, X., and Tian, P., Toward Long-Distance Underwater Wireless Optical Communication Based on A High-Sensitivity Single Photon Avalanche Diode; *JPHOT June 2020 7902510*
- Chen, H., Huang, C., and Chan, E.H.W., Photonic Approach for Measuring AOA of Multiple Signals With Improved Measurement Accuracy; *JPHOT June 2020 7201810*
- Chen, H., see Huang, H., *JPHOT Oct. 2020 6803012*
- Chen, H., Cao, J., Liu, A., Huang, Z., Wang, M., Wang, Z., Wang, X., and Chen, J., Weak-Seed Induced Enhancement of Stimulated Raman Scattering in Distributed Side-Pumped Yb-Doped Fiber Amplifiers; *JPHOT Dec. 2020 7103412*
- Chen, J., see Liu, H., *JPHOT Aug. 2020 7903712*
- Chen, J., see Shi, T., *JPHOT Aug. 2020 1503211*
- Chen, J., see Sun, Y., *JPHOT Feb. 2020 5500509*
- Chen, J., see Chen, Q., *JPHOT Feb. 2020 6800112*
- Chen, J., see Chen, H., *JPHOT June 2020 1502413*
- Chen, J., see Wang, X., *JPHOT June 2020 6600911*
- Chen, J., see Yeh, C., *JPHOT Oct. 2020 7102807*
- Chen, J., see Qian, N., *JPHOT Oct. 2020 5502110*
- Chen, J., Huang, Y., Cai, R., Zheng, A., Yu, Z., Wang, T., Liu, Z., and Gao, S., Free-Space Communication Turbulence Compensation by Optical Phase Conjugation; *JPHOT Oct. 2020 7905611*
- Chen, J., see Yeh, C., *JPHOT Dec. 2020 7202805*
- Chen, J., see Yeh, C., *JPHOT Dec. 2020 7202805*
- Chen, J., see Yang, C., *JPHOT Dec. 2020 7905913*
- Chen, J., see Zhou, G., *JPHOT Dec. 2020 5502615*
- Chen, J., see Zhang, T., *JPHOT Dec. 2020 9700401*
- Chen, J., see Chen, H., *JPHOT Dec. 2020 7103412*
- Chen, J., see Zhang, T., *JPHOT Dec. 2020 5502512*
- Chen, K., Liu, L., and He, S., Mode Division Multiplexing Based on Supermodes in Densely Packed Uniform Waveguide Array (DPUWA); *JPHOT April 2020 7901810*
- Chen, K., see Gao, Z., *JPHOT Oct. 2020 6803115*
- Chen, L., see Zhao, C., *JPHOT Aug. 2020 2200511*
- Chen, L., see Zhong, Y., *JPHOT April 2020 2400110*
- Chen, L., see Zhao, Y., *JPHOT April 2020 6600509*
- Chen, L., see Deng, H., *JPHOT June 2020 5900213*
- Chen, L., see Bi, W., *JPHOT Dec. 2020 3200608*
- Chen, M., see Li, J., *JPHOT Aug. 2020 6601309*
- Chen, M., Zou, P., Zhang, L., and Chi, N., Demonstration of a 2.34 Gbit/s Real-Time Single Silicon-Substrate Blue LED-Based Underwater VLC System; *JPHOT Feb. 2020 7900211*
- Chen, M., see Yang, T., *JPHOT April 2020 7800310*
- Chen, M., see Yang, B., *JPHOT April 2020 6600409*
- Chen, M., see Hu, C., *JPHOT April 2020 6900708*
- Chen, M., Liu, L., Xu, L., Ye, M., Jin, X., and Yu, Z., On-Chip All-Optical Tunable Filter With High Tuning Efficiency; *JPHOT April 2020 7800510*
- Chen, M., see Xu, L., *JPHOT June 2020 4501009*
- Chen, M., Zhang, L., Zhou, H., and Chen, Q., Low-Complexity Time-Domain Averaging-Based DAC Clock Tone Leakage Compensation for Short-Reach PAM4 Transmission; *JPHOT June 2020 7202014*
- Chen, M., see Shen, X., *JPHOT June 2020 6500609*
- Chen, M., Chen, C., Deng, S., Wang, C., Liu, H., Teng, C., Cheng, Y., Yang, H., Xu, R., Deng, H., and Yuan, L., Coherent Perfect Absorber Based on Antisymmetric Metasurface With Gain Material; *JPHOT June 2020 4500609*
- Chen, M., see Huang, H., *JPHOT Oct. 2020 6803012*
- Chen, M., see Wen, H., *JPHOT Dec. 2020 7906010*
- Chen, P., see Lin, C., *JPHOT Aug. 2020 4100218*
- Chen, P., Hsiao, P., Shen, P., Chen, H., Chen, Y., Horng, R., and Wu, D., Improved Performance of Passive-Matrix Micro-LED Displays Using a Multi-Function Passivation Structure; *JPHOT Aug. 2020 7000711*
- Chen, P., see Gong, L., *JPHOT Feb. 2020 1500306*
- Chen, P., see Hou, S., *JPHOT April 2020 1501408*
- Chen, P., Wu, J., Li, C., Kuo, C., Pai, N., and Lin, C., Symmetric Cryptography With Shift 2^{n-1} , Hash Transformation, Optimization-Based Controller for Medical Image Infosecurity: Case Study in Mammographic Image; *JPHOT June 2020 4100115*
- Chen, P., see Wang, J., *JPHOT June 2020 2200310*
- Chen, Q., Zhang, B., Zhang, L., Ge, R., Xu, R., Wu, Y., Tu, X., Jia, X., Pan, D., Kang, L., Chen, J., and Wu, P., Sixteen-Pixel NbN Nanowire Single Photon Detector Coupled With 300- μm Fiber; *JPHOT Feb. 2020 6800112*
- Chen, Q., see Chen, M., *JPHOT June 2020 7202014*
- Chen, Q., see Zhou, S., *JPHOT June 2020 6901311*
- Chen, Q., see Qin, H., *JPHOT June 2020 3700207*
- Chen, Q., see Wen, H., *JPHOT Dec. 2020 7906010*
- Chen, R., see Bian, H., *JPHOT April 2020 6801009*
- Chen, R., see Chen, Y., *JPHOT April 2020 2400207*
- Chen, R.T., see Ying, Z., *JPHOT Dec. 2020 7801311*
- Chen, S., see Tao, X., *JPHOT Aug. 2020 4501308*
- Chen, S., see He, D., *JPHOT April 2020 3900113*
- Chen, S., see Guan, W., *JPHOT April 2020 7901716*
- Chen, S., see Yang, C., *JPHOT Dec. 2020 7905913*
- Chen, W., see Wang, Y., *JPHOT Aug. 2020 3700413*
- Chen, W., Yue, G., Hu, H., Cheng, Z., Lu, G., and Liu, T., Dual-Mode GVD Tailoring in a Convex Waveguide; *JPHOT Aug. 2020 6601506*
- Chen, W., see Sun, W., *JPHOT Feb. 2020 7800208*
- Chen, W., see Zhang, Y., *JPHOT April 2020 7800409*
- Chen, W., see Zhang, B., *JPHOT April 2020 6600610*
- Chen, W., see Wang, W., *JPHOT June 2020 6901210*
- Chen, X., see Hu, M., *JPHOT Aug. 2020 5900309*
- Chen, X., see Meng, Y., *JPHOT Aug. 2020 7904211*
- Chen, X., see Yu, X., *JPHOT Aug. 2020 7904011*
- Chen, X., see Min, C., *JPHOT April 2020 7500310*
- Chen, X., see Gao, F., *JPHOT April 2020 1400109*
- Chen, X., see Zhu, Z., *JPHOT April 2020 7800614*
- Chen, X., see Gao, Y., *JPHOT June 2020 7903011*
- Chen, X., see Chen, H., *JPHOT June 2020 7902510*
- Chen, X., see Yu, X., *JPHOT Oct. 2020 2200708*
- Chen, X., see Yuan, B., *JPHOT Dec. 2020 3030669*
- Chen, Y., see Liu, H., *JPHOT Aug. 2020 7903712*
- Chen, Y., see Chen, P., *JPHOT Aug. 2020 7000711*
- Chen, Y., see Wang, Y., *JPHOT Aug. 2020 7903611*
- Chen, Y., Jiao, H., Zhou, H., Zheng, J., and Pu, T., Security Analysis of QAM Quantum-Noise Randomized Cipher System; *JPHOT Aug. 2020 7904114*
- Chen, Y., see Yu, J., *JPHOT Feb. 2020 7900808*
- Chen, Y., see Sun, T., *JPHOT Feb. 2020 8400112*
- Chen, Y., see Yang, H., *JPHOT Feb. 2020 6100208*
- Chen, Y., see Wei, S., *JPHOT April 2020 1501509*
- Chen, Y., see Cai, J., *JPHOT April 2020 7000310*
- Chen, Y., see Li, Y., *JPHOT April 2020 7201111*

- Chen, Y.**, *see* Wu, Y., *JPHOT April 2020 7901305*
- Chen, Y.**, He, Y., Wang, J., Li, W., Xing, L., Gao, F., and Shi, G., Automated Optical Flow Based Registration for Adaptive Optics Scanning Laser Ophthalmoscope; *JPHOT April 2020 3700109*
- Chen, Y.**, Huang, Y., Han, Y., Fu, J., Li, K., Li, Y., and Yu, J., A Novel Phase Noise Suppression Scheme Utilizing Gaussian Wavelet Basis Expansion for PDM CO-OFDM Superchannel; *JPHOT April 2020 7902309*
- Chen, Y.**, Chen, R., Chen, C., Lin, Y., Chen, C., Wang, P., Chang, Y., and Chiu, Y., Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing; *JPHOT April 2020 2400207*
- Chen, Y.**, *see* Zhang, J., *JPHOT April 2020 6900914*
- Chen, Y.**, *see* Hong, C., *JPHOT June 2020 7902605*
- Chen, Y.**, *see* Shiu, R., *JPHOT June 2020 7902908*
- Chen, Y.**, *see* Xiao, Y., *JPHOT June 2020 7201215*
- Chen, Y.**, Zheng, H., Liu, H., Han, Z., and Ren, Z., Indoor High Precision Three-Dimensional Positioning System Based on Visible Light Communication Using Improved Hybrid Bat Algorithm; *JPHOT Oct. 2020 6802513*
- Chen, Y.**, Yang, J., Wu, J., Li, Z., Liu, S., Yan, Z., Zhong, H., Zhou, R., Luo, A., Ho, H., He, S., Shui, L., and Xing, X., Controllable Droplet Generators by Light-Heat Energy Conversion for Selective Particle Encapsulation; *JPHOT Oct. 2020 7103109*
- Chen, Y.**, Yao, T., Xiao, H., Leng, J., and Zhou, P., Theoretical Analysis of Heat Distribution in Raman Fiber Lasers and Amplifiers Employing Pure Passive Fiber; *JPHOT Dec. 2020 1504713*
- Chen, Y.**, *see* Tian, Y., *JPHOT Dec. 2020 7103507*
- Chen, Z.**, *see* Lei, S., *JPHOT Aug. 2020 8200509*
- Chen, Z.**, *see* Wang, Y., *JPHOT Aug. 2020 5501710*
- Chen, Z.**, *see* Peng, Z., *JPHOT Feb. 2020 8200108*
- Chen, Z.**, *see* Luan, G., *JPHOT April 2020 6900508*
- Chen, Z.**, *see* Pan, J., *JPHOT April 2020 6800912*
- Chen, Z.**, *see* Guo, R., *JPHOT June 2020 5501316*
- Chen, Z.**, *see* Lv, J., *JPHOT Oct. 2020 4501610*
- Chen, Z.**, *see* Li, M., *JPHOT Dec. 2020 6803508*
- Chen, Z.**, *see* Fang, J., *JPHOT Dec. 2020 7906110*
- Chen, Z.**, Li, Q., and Fu, H.Y., Stimulated Brillouin Scattering by Dual Lasers Pumping in WGM Microcavities; *JPHOT Dec. 2020 6101108*
- Chen, Z.**, *see* Li, H., *JPHOT Dec. 2020 7906512*
- Cheng, C.**, *see* Li, C., *JPHOT Aug. 2020 7202211*
- Cheng, C.**, *see* Arvanitakis, G.N., *JPHOT April 2020 7901210*
- Cheng, G.**, *see* Li, G., *JPHOT April 2020 1501009*
- Cheng, J.**, *see* Wang, C., *JPHOT Feb. 2020 7900112*
- Cheng, L.**, *see* Zhu, H., *JPHOT Feb. 2020 6800214*
- Cheng, L.**, *see* Wang, Z., *JPHOT June 2020 4800410*
- Cheng, M.**, *see* Wang, K., *JPHOT Aug. 2020 4501211*
- Cheng, M.**, *see* Jin, Y., *JPHOT April 2020 7200913*
- Cheng, Q.**, *see* Zhang, Q., *JPHOT April 2020 6600810*
- Cheng, W.**, *see* Sun, Y., *JPHOT Feb. 2020 5500509*
- Cheng, W.**, *see* Liu, C., *JPHOT April 2020 7200811*
- Cheng, W.**, *see* Liu, C., *JPHOT April 2020 7200811*
- Cheng, X.**, *see* Ning, Y., *JPHOT Feb. 2020 6900316*
- Cheng, X.**, *see* Feng, J., *JPHOT June 2020 1502908*
- Cheng, X.**, *see* Gao, Z., *JPHOT Oct. 2020 6803115*
- Cheng, X.**, *see* Ma, J., *JPHOT Dec. 2020 5503010*
- Cheng, Y.**, *see* Ning, Y., *JPHOT Feb. 2020 6900316*
- Cheng, Y.**, *see* Chen, M., *JPHOT June 2020 4500609*
- Cheng, Z.**, *see* Chen, W., *JPHOT Aug. 2020 6601506*
- Cheng, Z.**, *see* Pan, J., *JPHOT April 2020 6800912*
- Chi, H.**, *see* Yang, B., *JPHOT Feb. 2020 5500109*
- Chi, H.**, *see* Yi, C., *JPHOT Oct. 2020 7102708*
- Chi, N.**, *see* Chen, M., *JPHOT Feb. 2020 7900211*
- Chi, N.**, *see* Chen, H., *JPHOT April 2020 7901610*
- Chiu, J.**, *see* Shiu, R., *JPHOT June 2020 7902908*
- Chiu, Y.**, *see* Chen, Y., *JPHOT April 2020 2400207*
- Cho, M.**, *see* Tsai, Y., *JPHOT Dec. 2020 2400409*
- Choi, J.**, Son, G., Jin, Y., and Yu, K., Finesse of Stable Extrinsic Fiber Fabry-Pérot Cavities With Spherical Surfaces; *JPHOT Oct. 2020 7102910*
- Choudhury, P.K.**, *see* Bilal, R.M.H., *JPHOT June 2020 4500913*
- Chow, C.**, *see* Wu, Y., *JPHOT April 2020 7901305*
- Chow, C.**, *see* Hong, C., *JPHOT June 2020 7902605*
- Chow, C.**, *see* Adnan, A., *JPHOT June 2020 7201405*
- Chow, C.**, *see* Yeh, C., *JPHOT Oct. 2020 7102807*
- Chow, C.**, *see* Gunawan, W.H., *JPHOT Oct. 2020 7905205*
- Chow, C.**, *see* Yeh, C., *JPHOT Dec. 2020 7202805*
- Choy, W.C.H.**, *see* Mei, G., *JPHOT Dec. 2020 1600314*
- Chrostowski, L.**, *see* Ma, M., *JPHOT Aug. 2020 4900411*
- Chu, C.**, Gao, S., Liu, Z., Tu, J., Yang, J., Hao, C., Liu, W., and Li, Z., Hybrid Angular Gradient Phase Grating for Measuring the Orbital Angular Momentum of Perfect Optical Vortex Beams; *JPHOT June 2020 7902409*
- Chu, C.**, Tian, K., Che, J., Shao, H., Kou, J., Zhang, Y., Zhang, Z., and Kuo, H., On the Impact of Electron Leakage on the Efficiency Droop for AlGaIn Based Deep Ultraviolet Light Emitting Diodes; *JPHOT June 2020 1600207*
- Chu, H.**, Qi, J., and Qiu, J., Dipole-Based Wavelet Superposition for Accurate Design and Analysis of Metasurface; *JPHOT Oct. 2020 4601312*
- Chu, Y.**, *see* Zhang, X., *JPHOT April 2020 7100410*
- Chua, S.**, *see* Liu, Y., *JPHOT Oct. 2020 4800810*
- Chung, Y.H.**, *see* Arya, S., *JPHOT Oct. 2020 7904918*
- Chung, Y.H.**, *see* Arya, S., *JPHOT Dec. 2020 7906712*
- Ciaramella, E.**, *see* Cossu, G., *JPHOT Dec. 2020 7906313*
- Cirino, G.A.**, *see* Moras, A.L., *JPHOT Oct. 2020 6802910*
- Cong, Z.**, *see* Gao, F., *JPHOT April 2020 1400109*
- Corso, A.J.**, *see* Zhao, Z., *JPHOT Dec. 2020 4502011*
- Cossu, G.**, Sturmiolo, A., and Ciaramella, E., Modelization and Characterization of a CMOS Camera as an Optical Real-Time Oscilloscope; *JPHOT Dec. 2020 7906313*
- Couderc, V.**, *see* Niang, A., *JPHOT April 2020 6500308*
- Crespo-Monteiro, N.**, *see* Koussi, E.K., *JPHOT April 2020 2700111*
- Cuadros, A.**, *see* Ma, X., *JPHOT Oct. 2020 3400217*
- Cui, H.**, *see* Hao, Q., *JPHOT Oct. 2020 3800110*
- Cui, J.**, *see* Zhou, Y., *JPHOT Aug. 2020 1503106*
- Cui, J.**, Li, T., Chen, H., and Cui, W., High-Performance Microring Resonator Ge-on-Si Photodetectors by Optimizing Absorption Layer Length; *JPHOT Aug. 2020 6802208*
- Cui, J.**, *see* Wang, F., *JPHOT Aug. 2020 1503408*
- Cui, J.**, *see* Wang, F., *JPHOT Oct. 2020 9700101*
- Cui, J.**, *see* Xue, Y., *JPHOT Oct. 2020 1503710*
- Cui, J.**, *see* Wang, F., *JPHOT Dec. 2020 9700301*
- Cui, S.**, *see* Zhou, K., *JPHOT Feb. 2020 7100210*
- Cui, S.**, *see* Tu, Y., *JPHOT April 2020 7901410*
- Cui, S.**, *see* Zhong, Y., *JPHOT June 2020 7201310*
- Cui, S.**, *see* Zhou, K., *JPHOT Oct. 2020 7905412*
- Cui, W.**, *see* Cui, J., *JPHOT Aug. 2020 6802208*
- Cui, Y.**, *see* Zhang, H., *JPHOT Aug. 2020 7102213*
- Cui, Y.**, *see* Qin, H., *JPHOT June 2020 3700207*
- Cui, Y.**, Tian, J., Dong, Z., Xu, R., Zhang, Z., and Song, Y., Simulation for Generation of Several Types of Pulses in an Yb-Doped Mode-Locked Fiber Laser; *JPHOT Dec. 2020 1504413*

D

- Dahnoun, N.**, *see* Arabul, E., *JPHOT April 2020 7500114*
- Dai, D.**, *see* Wang, J., *JPHOT June 2020 2200310*
- Dai, J.**, *see* Zhang, T., *JPHOT April 2020 4800210*
- Dai, N.**, *see* Hou, S., *JPHOT April 2020 1501408*
- Dai, S.**, *see* Zhang, B., *JPHOT April 2020 6600610*
- Dai, S.**, *see* Yu, W., *JPHOT Oct. 2020 2700308*
- Dai, T.**, *see* Zhang, B., *JPHOT April 2020 6600610*
- Dan, Y.**, *see* Zhang, T., *JPHOT April 2020 4800210*
- Dang, J.**, *see* Gao, J., *JPHOT Oct. 2020 7905312*
- Darmo, J.**, *see* Wenclawiak, M., *JPHOT Oct. 2020 5900608*
- Darwazeh, I.**, *see* Zhou, Z., *JPHOT April 2020 7200712*
- Dat, P.T.**, *see* Younus, O.I., *JPHOT June 2020 7902814*
- Dat, P.T.**, *see* Nguyen, D., *JPHOT Dec. 2020 5502814*
- Dawson, M.D.**, *see* Arvanitakis, G.N., *JPHOT April 2020 7901210*

- De Angelis, C.**, *see* Rocco, D., *JPHOT June 2020 4500507*
- De Angelis, C.**, *see* Rocco, D., *JPHOT Dec. 2020 4501908*
- Dell Olio, F.**, *see* Dhingra, N., *JPHOT Dec. 2020 6602311*
- Deng, D.**, and Qu, W., Fast Aberrations Compensation in Digital Holographic Microscopy Based on Phase Transformation; *JPHOT June 2020 6901409*
- Deng, D.**, *see* Zhao, L., *JPHOT June 2020 5501111*
- Deng, D.**, *see* Gong, Q., *JPHOT June 2020 1502708*
- Deng, H.**, Li, S., Wang, L., Xing, Y., and Wang, Q., Dual-View Integral Imaging System With Wide Viewing Angle And High Spatial Resolution; *JPHOT June 2020 7000511*
- Deng, H.**, Xiong, Z., Qu, W., Wu, Z., Liu, Q., Chen, L., Guo, J., and Shang, L., The Impact of Structural Parameters of Split-Ring Resonators on the Terahertz Radiation Characteristics of Micro-Structured Photoconductive Antennas: A Simulation Study; *JPHOT June 2020 5900213*
- Deng, H.**, *see* Chen, M., *JPHOT June 2020 4500609*
- Deng, H.**, *see* Chen, C., *JPHOT June 2020 7000414*
- Deng, J.**, *see* Huang, H., *JPHOT June 2020 1503008*
- Deng, L.**, *see* Jin, Y., *JPHOT April 2020 7200913*
- Deng, L.**, *see* Wang, L., *JPHOT June 2020 4600712*
- Deng, R.**, *see* Wen, H., *JPHOT Dec. 2020 7906010*
- Deng, S.**, *see* Chen, M., *JPHOT June 2020 4500609*
- Deng, Y.**, *see* Guo, P., *JPHOT Oct. 2020 6602009*
- Dhingra, N.**, and Dell Olio, F., Ultralow Loss and High Extinction Ratio TM-Pass Polarizer in Silicon Photonics; *JPHOT Dec. 2020 6602311*
- Dhriti, K.**, Ahmad, A., and Kumar, G., Planar Plasmonic Terahertz Waveguide Based Upon One Dimensional Array of Pyramidal Corrugations and Refractive Index Sensing; *JPHOT Dec. 2020 4801010*
- Di, Z.**, Yang, Z., Liu, Y., Peng, G., Zhang, L., and Li, G., Measurement of Principal Modes in Few-Mode Fibers by S² Method; *JPHOT April 2020 7101308*
- Dietrich, C.M.**, *see* Andrade, J.R.C., *JPHOT April 2020 1500609*
- Diez, J.**, *see* Quirce, A., *JPHOT Aug. 2020 1503314*
- Ding, C.**, *see* Ju, M., *JPHOT Dec. 2020 7001015*
- Ding, D.**, *see* Leng, L., *JPHOT Oct. 2020 6602212*
- Ding, J.**, Zhang, J., and Yu, J., Comparison of Geometrically Shaped and Probabilistically Shaped Bit-Loading DMT for Optical Interconnect System; *JPHOT April 2020 7201008*
- Ding, J.**, *see* Zhang, B., *JPHOT April 2020 6600610*
- Ding, L.**, *see* Zhang, Z., *JPHOT June 2020 7101908*
- Ding, L.**, *see* Liu, Y., *JPHOT Oct. 2020 4800810*
- Ding, S.**, *see* Mei, G., *JPHOT Dec. 2020 1600314*
- Ding, X.**, *see* Zhao, L., *JPHOT Feb. 2020 1500107*
- Ding, X.**, *see* Sun, B., *JPHOT April 2020 1501607*
- Ding, X.**, *see* Sun, B., *JPHOT June 2020 1502310*
- Ding, X.**, *see* He, Y., *JPHOT Dec. 2020 6101209*
- Ding, Y.**, *see* Wang, J., *JPHOT Aug. 2020 6601408*
- Ding, Y.**, *see* Qian, J., *JPHOT June 2020 3200306*
- Ding, Y.**, *see* Wang, Y., *JPHOT Oct. 2020 7801108*
- Ding, Z.**, *see* Tian, Y., *JPHOT Dec. 2020 7103507*
- Djordjevic, I.B.**, Hybrid QKD Protocol Outperforming Both DV- and CV-QKD Protocols; *JPHOT Feb. 2020 7600108*
- Dmitriev, V.**, Melo, G., and Castro, W., Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port; *JPHOT Oct. 2020 4800913*
- Dong, H.**, *see* Liu, C., *JPHOT Oct. 2020 8400312*
- Dong, K.**, *see* Zhang, H., *JPHOT April 2020 7101608*
- Dong, L.**, *see* Kong, L., *JPHOT June 2020 3900512*
- Dong, W.**, *see* Wang, Y., *JPHOT Oct. 2020 7801108*
- Dong, W.**, *see* Wang, Y., *JPHOT Dec. 2020 3200712*
- Dong, X.**, *see* Lei, S., *JPHOT Aug. 2020 8200509*
- Dong, X.**, *see* Wang, C., *JPHOT Dec. 2020 5502411*
- Dong, Y.**, *see* Jiang, T., *JPHOT Aug. 2020 7102607*
- Dong, Y.**, *see* Zhou, Y., *JPHOT June 2020 4500414*
- Dong, Y.**, *see* Zhang, L., *JPHOT June 2020 5501511*
- Dong, Y.**, *see* Hou, F., *JPHOT Oct. 2020 6802709*
- Dong, Z.**, *see* Cui, Y., *JPHOT Dec. 2020 1504413*
- Dou, J.**, *see* He, W., *JPHOT Feb. 2020 6900111*
- Dou, R.**, *see* Xiong, B., *JPHOT April 2020 7100708*
- Dou, Z.**, *see* Liu, S., *JPHOT April 2020 1501206*
- Dowling, J.P.**, *see* You, C., *JPHOT June 2020 4500810*
- Du, C.**, *see* Yan, Z., *JPHOT April 2020 7000209*
- Du, J.**, *see* Liu, Y., *JPHOT Aug. 2020 4900308*
- Du, L.**, *see* Feng, J., *JPHOT Aug. 2020 6901509*
- Du, L.**, *see* Xu, Q., *JPHOT April 2020 6900807*
- Du, Y.**, Han, M., and Shu, X., A Chaotic State in the Transition From Single Toward Multiple Pulse for Soliton Fiber Lasers; *JPHOT April 2020 3200112*
- Duadi, H.**, *see* Yariv, I., *JPHOT Oct. 2020 3700713*
- Duan, L.**, *see* Hoque, N.M.R., *JPHOT June 2020 7101109*
- Dumais, P.**, *see* Hasan, M., *JPHOT Oct. 2020 6802617*
- Duong, P.H.**, *see* Giang, D.T., *JPHOT April 2020 7100810*
- Duran-Valdeiglesias, E.**, *see* Zhang, W., *JPHOT Feb. 2020 2200108*
- Durrant, T.**, *see* Sankoh, A., *JPHOT Oct. 2020 7905311*

E

- Ebadi, S.M.**, Ortegren, J., Bayati, M.S., and Ram, S.B., A Multipurpose and Highly-Compact Plasmonic Filter Based on Metal-Insulator-Metal Waveguides; *JPHOT June 2020 4800309*
- Egorova, O.N.**, *see* Niang, A., *JPHOT April 2020 6500308*
- Ekin, S.**, *see* Piao, D., *JPHOT Aug. 2020 3700523*
- El-Ghazawi, T.**, *see* Alkabani, Y., *JPHOT April 2020 6600114*
- Eleuch, H.**, *see* Qasymeh, M., *JPHOT April 2020 7500212*
- Elgala, H.**, *see* Shao, S., *JPHOT Feb. 2020 7900615*
- Erdenebat, M.**, *see* Kwon, K., *JPHOT Aug. 2020 3900714*
- Erdogan, E.**, Kabaoglu, N., Altunbas, I., and Yanikomeroğlu, H., On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference; *JPHOT Feb. 2020 7900313*
- Esmail, M.A.**, *see* Alkhazraji, E., *JPHOT June 2020 6601010*
- Esmail, M.A.**, *see* Khan, M.Z.M., *JPHOT Oct. 2020 1504211*
- Esmail, M.A.**, Ragheb, A., Seleem, H., Fathallah, H., and Alshebeili, S., K-Band Centralized Cost-Effective All-Optical Sensing Signal Distribution Network; *JPHOT Dec. 2020 7202510*
- Esquivias, I.**, *see* Quirce, A., *JPHOT Aug. 2020 1503314*

F

- Fabert, M.**, *see* Niang, A., *JPHOT April 2020 6500308*
- Faheem, M.**, *see* Memon, K.A., *JPHOT Feb. 2020 7200408*
- Faig, H.**, Yoffe, Y., Wohlgenuth, E., and Sadot, D., Grading Optimization for Dimensions-Reduced Orthogonal Volterra DPD; *JPHOT Feb. 2020 7200310*
- Fan, B.**, *see* Liu, X., *JPHOT Aug. 2020 2400310*
- Fan, J.**, Li, Y., Fryc, I., Qian, C., Fan, X., and Zhang, G., Machine-Learning Assisted Prediction of Spectral Power Distribution for Full-Spectrum White Light-Emitting Diode; *JPHOT Feb. 2020 8200218*
- Fan, J.**, Lei, T., and Yuan, X., Tunable and Reconfigurable Dual-Band Chiral Metamirror; *JPHOT Oct. 2020 4601108*
- Fan, X.**, *see* Fan, J., *JPHOT Feb. 2020 8200218*
- Fan, X.**, *see* Zhang, X., *JPHOT April 2020 7100410*
- Fang, C.**, *see* Liu, X., *JPHOT Feb. 2020 4800112*
- Fang, C.**, *see* Yang, Q., *JPHOT Oct. 2020 4601209*
- Fang, J.**, Bi, M., Xiao, S., Yang, H., Chen, Z., Liu, Z., and Hu, W., Neural Successive Cancellation Polar Decoder With Tanh-Based Modified LLR Over FSO Turbulence Channel; *JPHOT Dec. 2020 7906110*
- Fang, J.**, *see* Li, H., *JPHOT Dec. 2020 7906512*
- Fang, Y.**, *see* Tsai, Y., *JPHOT Dec. 2020 2400409*
- Fathallah, H.**, *see* Alkhazraji, E., *JPHOT June 2020 6601010*
- Fathallah, H.**, *see* Esmail, M.A., *JPHOT Dec. 2020 7202510*
- Fathallah, H.A.**, *see* Khan, M.Z.M., *JPHOT Oct. 2020 1504211*
- Feng, C.**, *see* Wang, C., *JPHOT Feb. 2020 7900112*
- Feng, C.**, *see* Ying, Z., *JPHOT Dec. 2020 7801311*
- Feng, H.**, *see* Tian, Y., *JPHOT Dec. 2020 7103507*
- Feng, J.**, Jiao, S., Gao, Y., Lei, T., and Du, L., Design of Optimal Illumination Patterns in Single-Pixel Imaging Using Image Dictionaries; *JPHOT Aug. 2020 6901509*

- Feng, J.**, Wang, P., Cheng, X., Li, X., Hua, W., and Han, K., A High Efficient Dual-Wavelength Mid-Infrared Optical Parametric Oscillator Pumped by the Raman Fiber Oscillator; *JPHOT June 2020 1502908*
- Feng, T.**, see Guo, Y., *JPHOT April 2020 7100610*
- Feng, X.**, Yan, L., Li, P., Ye, J., Zou, X., Pan, W., and Luo, B., Photonic Approach for Generation and Fast Switching of Binary Digitally Modulated RF Signals; *JPHOT Oct. 2020 5502208*
- Feng, Y.**, see Zhang, L., *JPHOT June 2020 5501511*
- Feng, Y.**, see Wang, Y., *JPHOT June 2020 1502815*
- Feng, Y.**, see Liang, H., *JPHOT June 2020 7201811*
- Feng, Z.**, see Wang, Y., *JPHOT Aug. 2020 7903611*
- Feng, Z.**, see Wu, Z., *JPHOT Dec. 2020 5502313*
- Fixler, D.**, see Yariv, I., *JPHOT Oct. 2020 3700713*
- Fok, M.P.**, see Liu, Q., *JPHOT April 2020 5500808*
- Franca-Vieira, L.**, Rodriguez-Esquerre, V.F., Sisnando, A.D., and Rubio-Mercedes, C.E., Inverse Design of a Taper by Scatter Search Metaheuristic; *JPHOT Aug. 2020 4501409*
- Frankis, H.C.**, see Mbonde, H.M., *JPHOT April 2020 2200210*
- Frateschi, N.C.**, see Moras, A.L., *JPHOT Oct. 2020 6802910*
- Fryc, I.**, see Fan, J., *JPHOT Feb. 2020 8200218*
- Fu, C.**, Sun, Z., Han, L., and Liu, C., Dual-Bandwidth Linear Polarization Converter Based on Anisotropic Metasurface; *JPHOT April 2020 4600511*
- Fu, H.**, Hao, Q., Gong, H., Luo, P., and Zeng, H., Environmentally Stable 1.56- μm Femtosecond Laser System With Discontinuous Selectable Repetition Rate; *JPHOT June 2020 1502507*
- Fu, H.Y.**, see Xie, Z.T., *JPHOT Aug. 2020 4501510*
- Fu, H.Y.**, see Chen, Z., *JPHOT Dec. 2020 6101108*
- Fu, J.**, see Chen, Y., *JPHOT April 2020 7902309*
- Fu, Q.**, see Han, L., *JPHOT April 2020 7101508*
- Fu, Q.**, see Zhang, B., *JPHOT April 2020 6600610*
- Fu, S.**, see Su, X., *JPHOT Aug. 2020 7102114*
- Fu, S.**, see Wu, Z., *JPHOT April 2020 1501807*
- Fu, S.**, see Jin, Y., *JPHOT April 2020 7200913*
- Fu, T.**, see Sun, T., *JPHOT Feb. 2020 8400112*
- Fu, X.**, see Zhang, L., *JPHOT Oct. 2020 6601906*
- Fu, Y.H.**, see Zhou, Y., *JPHOT June 2020 4500414*
- Fu, Z.**, see Zhang, Q., *JPHOT April 2020 6600810*
- G**
- Gan, W.**, see Zhong, Y., *JPHOT April 2020 2400110*
- Gan, X.**, see Yang, Q., *JPHOT Oct. 2020 4601209*
- Gao, F.**, see Zhang, L., *JPHOT Aug. 2020 6601208*
- Gao, F.**, see Zhang, Z., *JPHOT Aug. 2020 8200610*
- Gao, F.**, see Chen, Y., *JPHOT April 2020 3700109*
- Gao, F.**, Zhang, X., Cong, Z., Liu, Z., Chen, X., Qin, Z., Wang, P., Xu, J., Wang, W., and Zhang, S., High Average Power Diode-Side-Pumped Intracavity Terahertz Parametric Source Based on Stimulated Polariton Scattering in RbTiOPO₄ Crystal; *JPHOT April 2020 1400109*
- Gao, F.**, see Song, N., *JPHOT June 2020 7101806*
- Gao, G.**, Lai, H., Jia, Z., Liu, Y., and Wang, Y., Sand-Dust Image Restoration Based on Reversing the Blue Channel Prior; *JPHOT April 2020 3900216*
- Gao, H.**, see Jin, X., *JPHOT Oct. 2020 1503915*
- Gao, J.**, see Sang, T., *JPHOT April 2020 4500111*
- Gao, J.**, Dang, J., Zhang, Z., and Wu, L., Rate Analysis of Intensity Modulated Broadcast Optical Mobile Communication System With User Mobility; *JPHOT Oct. 2020 7905312*
- Gao, Q.**, see Wang, Y., *JPHOT June 2020 1502815*
- Gao, S.**, see Yu, X., *JPHOT Aug. 2020 7904011*
- Gao, S.**, see Chu, C., *JPHOT June 2020 7902409*
- Gao, S.**, see Chen, J., *JPHOT Oct. 2020 7905611*
- Gao, S.**, see Li, Y., *JPHOT Dec. 2020 7906915*
- Gao, W.**, see Yu, H., *JPHOT April 2020 6801310*
- Gao, W.**, see Wang, Z., *JPHOT Oct. 2020 6802412*
- Gao, W.**, see Bi, W., *JPHOT Dec. 2020 3200608*
- Gao, X.**, see Shi, Y., *JPHOT Aug. 2020 7000814*
- Gao, X.**, see Zhang, X., *JPHOT June 2020 7903113*
- Gao, Y.**, see Lei, S., *JPHOT Aug. 2020 8200509*
- Gao, Y.**, see Feng, J., *JPHOT Aug. 2020 6901509*
- Gao, Y.**, Tan, Z., Chen, X., and Chen, G., A Hybrid Algorithm for Multi-Beam Steering of LCOS-Based Wavelength Selective Switch; *JPHOT June 2020 7903011*
- Gao, Y.**, see Xiao-Xue, J., *JPHOT Dec. 2020 6803414*
- Gao, Z.**, Cheng, X., Chen, K., Wang, A., Hu, Y., Zhang, S., and Hao, Q., Computational Ghost Imaging in Scattering Media Using Simulation-Based Deep Learning; *JPHOT Oct. 2020 6803115*
- Garcia-Zambrana, A.**, see Boluda-Ruiz, R., *JPHOT Aug. 2020 7903313*
- Garcia-Zambrana, A.**, see Boluda-Ruiz, R., *JPHOT Aug. 2020 7904414*
- Ge, C.**, see Wen, L., *JPHOT Dec. 2020 1400208*
- Ge, R.**, see Chen, Q., *JPHOT Feb. 2020 6800112*
- Geng, K.**, see Wen, H., *JPHOT Dec. 2020 7906010*
- Geng, T.**, see Li, Y., *JPHOT Dec. 2020 7906915*
- Ghassemlooy, Z.**, see Li, X., *JPHOT April 2020 7901014*
- Ghassemlooy, Z.**, see Younus, O.I., *JPHOT June 2020 7902814*
- Ghassemlooy, Z.**, see Nguyen, D., *JPHOT Dec. 2020 5502814*
- Ghosh, C.**, and Priye, V., Highly Sensitive FBG Strain Sensor With Enhanced Measurement Range Based On Higher Order FWM; *JPHOT Feb. 2020 6800407*
- Giang, D.T.**, Pham, T.S., Ngo, Q.M., Nguyen, V.T., Tien, T.Q., and Duong, P.H., An Alternative Approach for High Uniformity Distribution of Indoor Light-ing LED; *JPHOT April 2020 7100810*
- Giddings, R.P.**, see Sankoh, A., *JPHOT Oct. 2020 7905311*
- Gigli, C.**, see Rocco, D., *JPHOT June 2020 4500507*
- Gladysiewicz, M.**, see Maczko, H.S., *JPHOT Aug. 2020 6101013*
- Gong, B.**, Wen, H., and Li, H., Polarization-Independent Two-Layer Grating With Five-Port Splitting Output Under Normal Incidence; *JPHOT April 2020 6500208*
- Gong, C.**, see Liu, X., *JPHOT Aug. 2020 2400310*
- Gong, H.**, see Fu, H., *JPHOT June 2020 1502507*
- Gong, L.**, Zhang, H., Qian, Z., Wang, Y., Pan, K., Wang, Y., and Chen, P., Generation of 1.8-W Average Power From a Diode-Pumped Femtosecond Rotary Nd:Glass Disk Laser; *JPHOT Feb. 2020 1500306*
- Gong, M.**, see Xu, F., *JPHOT Feb. 2020 2500107*
- Gong, M.**, see Wang, Z., *JPHOT June 2020 4800410*
- Gong, Q.**, Zhang, H., Deng, D., and Zu, J., Dissipative Soliton Resonance in an All-Polarization Maintaining Fiber Laser With a Nonlinear Amplifying Loop Mirror; *JPHOT June 2020 1502708*
- Gong, Y.**, see Lei, S., *JPHOT Aug. 2020 8200509*
- Gu, E.**, see Arvanitakis, G.N., *JPHOT April 2020 7901210*
- Gu, F.**, see Yin, D., *JPHOT April 2020 3900312*
- Gu, G.**, see Bandyopadhyay, S., *JPHOT Feb. 2020 7100313*
- Gu, G.**, see Zhou, S., *JPHOT June 2020 6901311*
- Gu, G.**, see Shen, X., *JPHOT June 2020 6500609*
- Gu, J.**, see Hu, M., *JPHOT Aug. 2020 5900309*
- Gu, J.**, see Xiong, B., *JPHOT April 2020 7100708*
- Gu, J.**, see Lv, B., *JPHOT Oct. 2020 4601410*
- Gu, J.**, Lu, B., Yang, J., Wang, Z., Ye, L., Ye, Q., Qu, R., and Cai, H., High SNR Φ -OTDR Based on Frequency and Wavelength Diversity With Differential Vector Aggregation Method; *JPHOT Dec. 2020 7103612*
- Gu, J.**, see Ying, Z., *JPHOT Dec. 2020 7801311*
- Gu, Y.**, see Su, X., *JPHOT Aug. 2020 7102114*
- Gu, Y.**, see Zhou, K., *JPHOT Oct. 2020 7905412*
- Gu, Z.**, see Hou, S., *JPHOT April 2020 1501408*
- Gu, Z.**, see Yin, D., *JPHOT April 2020 3900312*
- Guan, C.**, see Zhu, L., *JPHOT April 2020 6900614*
- Guan, T.**, see Yang, Y., *JPHOT Aug. 2020 7800912*
- Guan, W.**, Chen, S., Wen, S., Tan, Z., Song, H., and Hou, W., High-Accuracy Robot Indoor Localization Scheme Based on Robot Operating System Using Visible Light Positioning; *JPHOT April 2020 7901716*
- Guan, X.**, see Shi, T., *JPHOT Aug. 2020 1503211*
- Gui, W.**, see He, J., *JPHOT June 2020 7800712*
- Gunawan, W.H.**, Liu, Y., Yeh, C., and Chow, C., Color-Shift-Keying Embedded Direct-Current Optical-Orthogonal-Frequency-Division-Multiplexing

- (CSK-DCO-OFDM) for Visible Light Communications (VLC); *JPHOT Oct. 2020 7905205*
- Guo, C.**, see Wang, W., *JPHOT Aug. 2020 4501108*
- Guo, C.**, see Wang, C., *JPHOT Feb. 2020 7900112*
- Guo, H.**, see Shi, T., *JPHOT Aug. 2020 1503211*
- Guo, H.**, see Tian, S., *JPHOT April 2020 4600309*
- Guo, J.**, Yang, X., Wang, Y., Wang, M., Hua, E., and Yan, S., Refractive Index Nanosensor With Simple Structure Based on Fano Resonance; *JPHOT Aug. 2020 4800710*
- Guo, J.**, Qi, H., Song, Z., Ni, J., Wang, C., Wang, W., and Peng, G., A Comparative Study of Thermal Impact on Erbium Doped Distributed Feedback Fiber Laser Output Power; *JPHOT April 2020 1502009*
- Guo, J.**, see Deng, H., *JPHOT June 2020 5900213*
- Guo, J.**, Zhang, J., Zhang, Y., Xin, G., and Li, L., Constant Weight Space-Time Codes for Dimmable MIMO-VLC Systems; *JPHOT Dec. 2020 7906815*
- Guo, P.**, see Tan, Q., *JPHOT April 2020 7902212*
- Guo, P.**, Wang, Z., Shi, B., Deng, Y., Zhang, J., Yuan, H., and Wu, J., Compressive Sensing Based on Mesoscopic Chaos of Silicon Optomechanical Photonic Crystal; *JPHOT Oct. 2020 6602009*
- Guo, R.**, Li, Y., Zhang, C., Lei, P., Yin, Q., Xie, X., and Chen, Z., Broadband Photonic Down-Conversion Preprocessor for ADC With Arcsine Equalization; *JPHOT June 2020 5501316*
- Guo, T.**, see Cai, J., *JPHOT April 2020 7000310*
- Guo, W.**, see Peng, Z., *JPHOT Feb. 2020 8200108*
- Guo, X.**, see Zhu, X., *JPHOT Aug. 2020 8200712*
- Guo, Y.**, see Li, M., *JPHOT Aug. 2020 7904308*
- Guo, Y.**, see Kong, M., *JPHOT Aug. 2020 7904713*
- Guo, Y.**, Yan, F., Feng, T., Zhang, L., Qin, Q., Han, W., Bai, Z., Zhou, H., and Suo, Y., Switchable Multi-Wavelength Thulium-Doped Fiber Laser Using Four-Mode Fiber Based Sagnac Loop Filter; *JPHOT April 2020 7100610*
- Guo, Y.**, see Zhou, G., *JPHOT Dec. 2020 5502615*
- Guo, Y.**, Kong, M., Alkhazragi, O., Sun, X., Sait, M., Ng, T.K., and Ooi, B.S., Diffused-Line-of-Sight Communication for Mobile and Fixed Underwater Nodes; *JPHOT Dec. 2020 7906413*
- Guo, Y.J.**, see Ju, M., *JPHOT Dec. 2020 7001015*
- Guo, Z.**, see Lei, S., *JPHOT Aug. 2020 8200509*
- Guo, Z.**, see Wang, W., *JPHOT Aug. 2020 4501108*
- Guo, Z.**, see Peng, Z., *JPHOT Feb. 2020 8200108*
- Gupta, A.K.**, Hsu, C., and Lai, C., Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach; *JPHOT Oct. 2020 2200611*
- ## H
- Haas, H.**, see Arvanitakis, G.N., *JPHOT April 2020 7901210*
- Habib, M.S.**, see Hossain, M.S., *JPHOT June 2020 7202109*
- Habib, M.S.**, see Hossain, M.S., *JPHOT June 2020 7202109*
- Hai, N.H.**, see Hossain, M.S., *JPHOT June 2020 7202109*
- Haigh, P.A.**, see Li, X., *JPHOT April 2020 7901014*
- Haldar, A.**, and Ramarao, V., Light Diffraction From a Flexible Patterned Layer With Periodically Arranged Dimples; *JPHOT Oct. 2020 2700210*
- Hall, T.J.**, see Hasan, M., *JPHOT Oct. 2020 6802617*
- Han, C.**, see Zhang, B., *JPHOT Dec. 2020 2201008*
- Han, F.**, see Liu, J., *JPHOT April 2020 6801206*
- Han, G.**, see Liu, X., *JPHOT Feb. 2020 4800112*
- Han, G.**, see Yang, Q., *JPHOT Oct. 2020 4601209*
- Han, H.**, see Iroegbu, P.I., *JPHOT Oct. 2020 1503612*
- Han, J.**, see Hu, M., *JPHOT Aug. 2020 5900309*
- Han, J.**, see Lv, B., *JPHOT Oct. 2020 4601410*
- Han, K.**, see Feng, J., *JPHOT June 2020 1502908*
- Han, L.**, see Fu, C., *JPHOT April 2020 4600511*
- Han, L.**, Wang, T., Liu, R., Ma, W., Zhao, Y., Fu, Q., and Jiang, H., Generation of Flat-Top Q-Switched Envelope Dissipative Soliton Resonance Pulse in Passively Mode-Locked Fiber Laser; *JPHOT April 2020 7101508*
- Han, M.**, see Zhu, Y., *JPHOT Aug. 2020 7102408*
- Han, M.**, see Du, Y., *JPHOT April 2020 3200112*
- Han, S.**, see Hong, Y., *JPHOT Aug. 2020 7903510*
- Han, S.**, see Wijesinghe, R.E., *JPHOT Aug. 2020 3700611*
- Han, S.**, see Lim, G., *JPHOT Feb. 2020 7200208*
- han, S.**, liu, B., mao, Y., Ren, J., wu, X., xu, X., Jiang, L., Zhang, J., and Zhao, J., High-Security Multi-Slot Chaos Encryption With Dynamic Probability for 16-CAP PON; *JPHOT June 2020 7201510*
- Han, W.**, see Guo, Y., *JPHOT April 2020 7100610*
- Han, X.**, see Su, X., *JPHOT Aug. 2020 7102114*
- Han, X.**, see Zhang, T., *JPHOT April 2020 4800210*
- Han, X.**, Xie, L., Wang, Y., Li, J., Zhong, L., and Lu, X., Two-Step Phase-Shifting Algorithm Based on the Quadratic Spatial Filtering of Interferograms; *JPHOT Dec. 2020 6901812*
- Han, Y.**, see He, X., *JPHOT Aug. 2020 2200410*
- Han, Y.**, see Chen, Y., *JPHOT April 2020 7902309*
- Han, Z.**, Li, L., Jin, W., Wang, X., Jiao, G., and Wang, H., Convolutional Neural Network Training for RGB Camera Color Restoration Using Generated Image Pairs; *JPHOT Oct. 2020 6802815*
- Han, Z.**, see Chen, Y., *JPHOT Oct. 2020 6802513*
- Hang, Y.**, see Mao, X., *JPHOT Oct. 2020 5900408*
- Hao, C.**, see Chu, C., *JPHOT June 2020 7902409*
- Hao, H.**, see Tao, X., *JPHOT Aug. 2020 4501308*
- Hao, H.**, see Zhou, X., *JPHOT Oct. 2020 7202408*
- Hao, Q.**, see Ning, Y., *JPHOT Feb. 2020 6900316*
- Hao, Q.**, see Wang, Y., *JPHOT June 2020 6100813*
- Hao, Q.**, see Fu, H., *JPHOT June 2020 1502507*
- Hao, Q.**, see Gao, Z., *JPHOT Oct. 2020 6803115*
- Hao, Q.**, Tang, M., Cao, J., Rizvi, S., Cui, H., and Wu, Z., Study on Rotation and Scaling Invariance of Retina-Like Imaging; *JPHOT Oct. 2020 3800110*
- Hao, Y.**, see Liu, X., *JPHOT Feb. 2020 4800112*
- Hao, Y.**, see Liu, C., *JPHOT Oct. 2020 8400312*
- Hao, Y.**, see Yang, Q., *JPHOT Oct. 2020 4601209*
- Hartensveld, M.**, Melanson, B., and Zhang, J., Electrostatic Field Effect Light-Emitting Diode; *JPHOT June 2020 8200408*
- Hartensveld, M.**, Melanson, B., and Zhang, J., Ultraviolet Electrostatic Field Effect Light-Emitting Diode; *JPHOT Oct. 2020 8200808*
- Hartensveld, M.**, Melanson, B., Thirupakuzi Vangipuram, V., and Zhang, J., 450 nm Gallium Nitride Alternating Current Light-Emitting Diode; *JPHOT Dec. 2020 8200906*
- Hasan, G.M.**, see Hasan, M., *JPHOT Oct. 2020 6802617*
- Hasan, M.**, Rad, M., Hasan, G.M., Liu, P., Dumais, P., Bernier, E., and Hall, T.J., Ultra-High Resolution Wideband on-Chip Spectrometer; *JPHOT Oct. 2020 6802617*
- Hasan, M.K.**, see Ahmed, M.F., *JPHOT Oct. 2020 7905011*
- Hasan, T.**, see Wei, R., *JPHOT April 2020 3200208*
- Haxha, S.**, see Yasli, A., *JPHOT Feb. 2020 6800515*
- He, D.**, Cai, D., Zhou, J., Luo, J., and Chen, S., Restoration of Out-of-Focus Fluorescence Microscopy Images Using Learning-Based Depth-Variant Deconvolution; *JPHOT April 2020 3900113*
- He, G.**, see Sheng, A., *JPHOT April 2020 6100607*
- He, H.**, see Shi, F., *JPHOT Aug. 2020 3700308*
- He, H.**, see Shi, F., *JPHOT Oct. 2020 9700201*
- He, J.**, Song, C., Luo, Q., Yang, C., and Gui, W., EWT-ASG: Empirical Wavelet Transform With Adaptive Savitzky-Golay Filtering for TDLAS; *JPHOT June 2020 7800712*
- He, J.**, see Zhuang, Y., *JPHOT June 2020 7201707*
- He, J.**, see Xiao, Y., *JPHOT June 2020 7201215*
- He, J.**, see Sankoh, A., *JPHOT Oct. 2020 7905311*
- He, Q.**, Zhang, Z., Xie, J., Shen, Z., and Zhao, Y., Method for Receiving Weak Microwave Photonics Signals Based on Electro-Optical Up-Conversion; *JPHOT Aug. 2020 5501910*
- He, S.**, see Chen, K., *JPHOT April 2020 7901810*
- He, S.**, see Chen, Y., *JPHOT Oct. 2020 7103109*
- He, W.**, Dou, J., Yang, Z., Liu, Z., and Liu, Z., Sequential Shift Absolute Phase Aberration Calibration in Digital Holographic Phase Imaging Based on Chebyshev Polynomials Fitting; *JPHOT Feb. 2020 6900111*
- He, W.**, see Bandyopadhyay, S., *JPHOT Feb. 2020 7100313*
- He, X.**, Jie, J., Yang, J., Han, Y., and Zhang, S., A Mid-Infrared Dual-Band Filter With Ultra-High Resolving Power; *JPHOT Aug. 2020 2200410*

- He, X.**, see Arvanitakis, G.N., *JPHOT April 2020 7901210*
- He, X.**, see Wang, Z., *JPHOT June 2020 4800410*
- He, X.**, see Jiang, Z., *JPHOT Dec. 2020 6901712*
- He, Y.**, see Yang, Y., *JPHOT Aug. 2020 7800912*
- He, Y.**, see Zhou, P., *JPHOT Feb. 2020 1500212*
- He, Y.**, see Chen, Y., *JPHOT April 2020 3700109*
- He, Y.**, Zhang, G., Tang, J., Ding, X., and Yao, J., Optical-Stark Induced Distortions in Vortex Momentum Distributions of p-Orbital Electrons of Neon Atoms; *JPHOT Dec. 2020 6101209*
- He, Z.**, see Liu, Y., *JPHOT Aug. 2020 4900308*
- He, Z.**, see Zheng, Y., *JPHOT Aug. 2020 3200408*
- Heidelberger, C.**, see Kharas, D., *JPHOT Dec. 2020 1504612*
- Higuita, M.A.U.**, see Koussi, E.K., *JPHOT April 2020 2700111*
- Hirano, Y.**, Miyamoto, Y., Miura, M., Motoyama, Y., Machida, K., Yamada, T., Otomo, A., and Kikuchi, H., High-Speed Optical-Beam Scanning by an Optical Phased Array Using Electro-Optic Polymer Waveguides; *JPHOT April 2020 6600807*
- Ho, C.P.**, Zhao, Z., Li, Q., Takagi, S., and Takenaka, M., Tunable Germanium-on-Insulator Band-Stop Optical Filter Using Thermo-Optic Effect; *JPHOT April 2020 6600307*
- Ho, H.**, see Chen, Y., *JPHOT Oct. 2020 7103109*
- Holguin-Lerma, J.A.**, see Kong, M., *JPHOT Aug. 2020 7904713*
- Hong, C.**, see Wu, Y., *JPHOT April 2020 7901305*
- Hong, C.**, Wu, Y., Liu, Y., Chow, C., Yeh, C., Hsu, K., Lin, D., Liao, X., Lin, K., and Chen, Y., Angle-of-Arrival (AOA) Visible Light Positioning (VLP) System Using Solar Cells With Third-Order Regression and Ridge Regression Algorithms; *JPHOT June 2020 7902605*
- Hong, W.**, see Wang, L., *JPHOT June 2020 4600712*
- Hong, Y.**, Shin, W., and Han, S., Enhancement of SOA-Based Scintillation Mitigation by PS-OOK Transmission in FSO Communication; *JPHOT Aug. 2020 7903510*
- Hong, Y.**, see Sankoh, A., *JPHOT Oct. 2020 7905311*
- Hoque, N.M.R.**, and Duan, L., Ultrahigh-Resolution Fiber-Optic Sensing Based on High-Finesse, Meter-Long Fiber Fabry-Perot Resonators; *JPHOT June 2020 7101109*
- Hong, R.**, see Chen, P., *JPHOT Aug. 2020 7000711*
- Hossain, M.S.**, Razzak, S.M.A., Markos, C., Hai, N.H., Habib, M.S., and Habib, M.S., Highly Birefringent, Low-Loss, and Near-Zero Flat Dispersion ENZ Based THz Photonic Crystal Fibers; *JPHOT June 2020 7202109*
- Hosseini, S.E.**, see Keshavarz, H., *JPHOT Aug. 2020 5501816*
- Hosseiniyanfar, H.**, and Brandt-Pearce, M., Performance Limits for Fingerprinting-Based Indoor Optical Communication Positioning Systems Exploiting Multipath Reflections; *JPHOT Aug. 2020 7903416*
- Hou, F.**, Zhang, X., Wang, Z., Yang, L., Sun, W., Yang, Y., Dong, Y., Huang, Y., and Wang, T., Magnetic Fluid Infiltrated Microbottle Resonator Sensor With Axial Confined Mode; *JPHOT Oct. 2020 6802709*
- Hou, J.**, see Liu, S., *JPHOT April 2020 1501206*
- Hou, J.**, see Yang, C., *JPHOT Dec. 2020 7905913*
- Hou, S.**, Gu, Z., Chen, P., Li, J., Yang, L., Peng, J., Li, H., and Dai, N., A Novel Repetition Rate Adjustable SBS-Based Q-Switched Fiber Laser; *JPHOT April 2020 1501408*
- Hou, T.**, see Zhang, Y., *JPHOT Dec. 2020 6501113*
- Hou, W.**, see Guan, W., *JPHOT April 2020 7901716*
- Hou, Y.**, see Zhang, L., *JPHOT Aug. 2020 6601208*
- Hou, Z.**, see Wu, M., *JPHOT June 2020 7101708*
- Hranilovic, S.**, see Pawlikowski, W., *JPHOT Oct. 2020 7905111*
- Hsiao, P.**, see Chen, P., *JPHOT Aug. 2020 7000711*
- Hsieh, C.**, see Zhang, Y., *JPHOT Oct. 2020 3900908*
- Hsieh, P.**, see Yu, Y., *JPHOT Oct. 2020 6501012*
- Hsu, C.**, see Gupta, A.K., *JPHOT Oct. 2020 2200611*
- Hsu, K.**, see Wu, Y., *JPHOT April 2020 7901305*
- Hsu, K.**, see Hong, C., *JPHOT June 2020 7902605*
- Hu, C.**, Yang, S., Chen, M., and Chen, H., Quadrature Multiplexed Structured Illumination Imaging; *JPHOT April 2020 6900708*
- Hu, C.**, Xia, G., Jiang, Z., Yue, D., Yang, W., Lin, G., and Wu, Z., Simultaneous Generation of Multi-Channel Broadband Chaotic Signals Based on Two Unidirectionally Coupled WRC-FPLDs; *JPHOT Oct. 2020 1504008*
- Hu, C.**, see Huang, H., *JPHOT Oct. 2020 6803012*
- Hu, F.**, see Chen, H., *JPHOT April 2020 7901610*
- Hu, G.**, see Zhang, H., *JPHOT Aug. 2020 7102213*
- Hu, H.**, see Chen, W., *JPHOT Aug. 2020 6601506*
- Hu, H.**, see Yang, H., *JPHOT Feb. 2020 6100208*
- Hu, H.**, see Zhao, Y., *JPHOT April 2020 6600509*
- Hu, H.**, see Huang, H., *JPHOT June 2020 1503008*
- Hu, H.**, see Zhang, B., *JPHOT Dec. 2020 2201008*
- Hu, J.**, see Bandyopadhyay, S., *JPHOT Feb. 2020 7100313*
- Hu, J.**, see Tian, S., *JPHOT April 2020 4600309*
- Hu, J.**, see Shen, X., *JPHOT June 2020 6500609*
- Hu, K.**, see Zhu, Z., *JPHOT April 2020 7800614*
- Hu, L.**, see Bi, W., *JPHOT Dec. 2020 3200608*
- Hu, M.**, Tian, Z., Chen, X., Yang, X., Yi, Z., Wang, Q., Ouyang, C., Gu, J., Han, J., and Zhang, W., Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing; *JPHOT Aug. 2020 5900309*
- Hu, M.**, see Zhou, X., *JPHOT Oct. 2020 7202408*
- Hu, R.**, see Jin, H., *JPHOT April 2020 6800711*
- Hu, S.**, Liu, H., Zhao, L., and Bian, X., The Link Attenuation Model Based on Monte Carlo Simulation for Laser Transmission in Fog Channel; *JPHOT Aug. 2020 6100910*
- Hu, S.**, see Xu, Y., *JPHOT June 2020 6601111*
- Hu, T.**, see Zhou, Y., *JPHOT June 2020 4500414*
- Hu, W.**, see Zhang, H., *JPHOT April 2020 6600210*
- Hu, W.**, see Lv, J., *JPHOT Oct. 2020 4501610*
- Hu, W.**, see Fang, J., *JPHOT Dec. 2020 7906110*
- Hu, X.**, see Cai, Y., *JPHOT Aug. 2020 7102508*
- Hu, Y.**, see Liu, Y., *JPHOT Aug. 2020 7102311*
- Hu, Y.**, see Ning, Y., *JPHOT Feb. 2020 6900316*
- Hu, Y.**, see Wu, Y., *JPHOT Oct. 2020 7000913*
- Hu, Y.**, see Gao, Z., *JPHOT Oct. 2020 6803115*
- Hu, Z.**, see Liu, F., *JPHOT April 2020 1500910*
- Hu, Z.**, see Ma, J., *JPHOT Dec. 2020 7202710*
- Hua, E.**, see Guo, J., *JPHOT Aug. 2020 4800710*
- Hua, W.**, see Feng, J., *JPHOT June 2020 1502908*
- Hua, Y.**, see Zhou, S., *JPHOT June 2020 6901311*
- Huang, B.**, see Liu, Y., *JPHOT Oct. 2020 4800810*
- Huang, C.**, see Luan, G., *JPHOT April 2020 6900508*
- Huang, C.**, see Jin, H., *JPHOT April 2020 6800711*
- Huang, C.**, see Chen, H., *JPHOT June 2020 7201810*
- Huang, H.**, Hu, H., Deng, J., Li, J., Ruan, K., Shi, F., Weng, W., and Lin, W., Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser; *JPHOT June 2020 1503008*
- Huang, H.**, Hu, C., Yang, S., Chen, M., and Chen, H., Temporal Ghost Imaging by Means of Fourier Spectrum Acquisition; *JPHOT Oct. 2020 6803012*
- Huang, H.**, see Tsai, Y., *JPHOT Dec. 2020 2400409*
- Huang, H.**, see Li, H., *JPHOT Dec. 2020 7906512*
- Huang, J.**, see Wang, F., *JPHOT Aug. 2020 1503408*
- Huang, J.**, see Yi, J., *JPHOT Feb. 2020 6100408*
- Huang, J.**, see Wang, F., *JPHOT Oct. 2020 9700101*
- Huang, J.**, see Wang, F., *JPHOT Dec. 2020 9700301*
- Huang, L.**, see Wu, H., *JPHOT April 2020 1500709*
- Huang, L.**, see Tang, B., *JPHOT June 2020 4500209*
- Huang, L.**, see Iroegbu, P.I., *JPHOT Oct. 2020 1503612*
- Huang, P.**, see Wu, Z., *JPHOT April 2020 1501807*
- Huang, P.**, see Pan, J., *JPHOT April 2020 6800912*
- Huang, S.**, see Liu, C., *JPHOT April 2020 7200811*
- Huang, S.**, see Tsai, Y., *JPHOT Dec. 2020 2400409*
- Huang, T.**, see Wu, Z., *JPHOT April 2020 1501807*
- Huang, T.**, see Pan, J., *JPHOT April 2020 6800912*
- Huang, T.**, see Liu, J., *JPHOT April 2020 6801206*
- Huang, X.**, Yang, F., Pan, C., and Song, J., Pre-Distorted Enhanced ADO-OFDM for Hybrid VLC Networks: A Mutual-Interference-Free Approach; *JPHOT April 2020 7901512*
- Huang, X.**, see Liang, W., *JPHOT Oct. 2020 7905707*
- Huang, Y.**, see Zhou, Y., *JPHOT Aug. 2020 1503106*
- Huang, Y.**, see Yu, J., *JPHOT Feb. 2020 7900808*

Huang, Y., see Chen, Y., *JPHOT April 2020 7902309*
Huang, Y., see You, C., *JPHOT June 2020 4500810*
Huang, Y., Wang, S., Jiang, J., Liu, K., Zhang, X., Zhang, P., and Liu, T., Orthogonal Phase Demodulation of Optical Fiber Fabry-Perot Interferometer Based on Birefringent Crystals and Polarization Technology; *JPHOT June 2020 7101209*
Huang, Y., see Hou, F., *JPHOT Oct. 2020 6802709*
Huang, Y., see Chen, J., *JPHOT Oct. 2020 7905611*
Huang, Y., see Lv, W., *JPHOT Dec. 2020 3901113*
Huang, Z., see Chen, H., *JPHOT June 2020 1502413*
Huang, Z., see Chen, H., *JPHOT Dec. 2020 7103412*
Huffaker, D.L., see Xie, S., *JPHOT Aug. 2020 6802008*
Hui, M., see Kong, L., *JPHOT June 2020 3900512*

I

Iguchi, A., see Morimoto, K., *JPHOT Aug. 2020 6601713*
Iguchi, A., Morimoto, K., and Tsuji, Y., Sensitivity-Based Structural Optimal Design With Bi-Directional Beam Propagation Method for Photonic Devices in High-Index-Contrast Waveguides; *JPHOT Oct. 2020 6602111*
Iida, D., see Nakamura, A., *JPHOT April 2020 7200609*
Im, C., Bhandari, B., Kim, S., Oh, M., Lee, K., Kim, T., and Lee, S., Backward-Emitting Silicon Nitride Optical Phased Array Enabling Efficient Wavelength-Tuned Beam Steering; *JPHOT Oct. 2020 6601910*
Im, C., see Bhandari, B., *JPHOT Dec. 2020 6602511*
Inoue, J., Nishimura, T., Ogura, Y., and Tanida, J., Nanoscale Optical Logic Circuits by Single-Step FRET; *JPHOT April 2020 6500112*
Inoue, J., see Watanabe, A., *JPHOT Dec. 2020 4502108*
Iroegbu, P.I., Liu, M., Lan, T., Wang, D., Han, H., Li, Y., Cao, Y., Li, F., Iroegbu, U.F., Huang, L., Yin, G., and Zhu, T., 1310 nm Narrow Linewidth Laser Assisted by the Feedback of Double-FBGs; *JPHOT Oct. 2020 1503612*
Iroegbu, U.F., see Iroegbu, P.I., *JPHOT Oct. 2020 1503612*
Islim, M.S., see Arvanitakis, G.N., *JPHOT April 2020 7901210*

J

Jaeger, N.A.F., see Ma, M., *JPHOT Aug. 2020 4900411*
Jamshidi, K., see Keshavarz, H., *JPHOT Aug. 2020 5501816*
Jang, J.H., see Wijesinghe, R.E., *JPHOT Aug. 2020 3700611*
Jang, Y.M., see Ahmed, M.F., *JPHOT Oct. 2020 7905011*
Javidi, B., see Ahmadi, K., *JPHOT June 2020 6500810*
Jeon, D., see Wijesinghe, R.E., *JPHOT Aug. 2020 3700611*
Jeon, M., see Wijesinghe, R.E., *JPHOT Aug. 2020 3700611*
Ji, J., Wu, B., Zhang, J., Xu, M., and Wang, K., Design and Investigation of 10 Gb/s FSO Wiretap Channel Using OCDMA Time-Diversity Reception; *JPHOT June 2020 7903212*
Ji, Q., see Chen, C., *JPHOT June 2020 7000414*
Ji, R., see Bian, H., *JPHOT April 2020 6801009*
Ji, Y., see Yang, Y., *JPHOT Aug. 2020 7800912*
Ji, Y., Wu, G., and Wang, C., Generalized Likelihood Block Detection for SPAD-Based Underwater VLC System; *JPHOT Feb. 2020 7900510*
Ji, Y., see Li, X., *JPHOT June 2020 4900208*
Jia, X., see Tao, X., *JPHOT Aug. 2020 4501308*
Jia, X., see Chen, Q., *JPHOT Feb. 2020 6800112*
Jia, Z., see Li, Z., *JPHOT Aug. 2020 3900613*
Jia, Z., see Gao, G., *JPHOT April 2020 3900216*
Jia, Z., see Song, S., *JPHOT Oct. 2020 3901016*
Jiang, C., see Tang, B., *JPHOT June 2020 4500209*
Jiang, G., see Zhao, L., *JPHOT Feb. 2020 1500107*
Jiang, G., see Sun, B., *JPHOT April 2020 1501607*
Jiang, G., see Sun, B., *JPHOT June 2020 1502310*
Jiang, H., see Han, L., *JPHOT April 2020 7101508*
Jiang, J., see Zhang, X., *JPHOT April 2020 7100410*
Jiang, J., see Wang, C., *JPHOT April 2020 6801111*
Jiang, J., see Shen, X., *JPHOT June 2020 6500609*
Jiang, J., see Huang, Y., *JPHOT June 2020 7101209*
Jiang, L., see Zhang, X., *JPHOT April 2020 7100410*

Jiang, L., see han, S., *JPHOT June 2020 7201510*
Jiang, M., see Lian, T., *JPHOT Aug. 2020 6601610*
Jiang, N., see Peng, L., *JPHOT April 2020 5500608*
Jiang, P., see Sun, B., *JPHOT April 2020 1501607*
Jiang, P., see Zhong, Y., *JPHOT June 2020 7201310*
Jiang, T., Zhou, D., Xia, M., Teng, L., Ba, D., and Dong, Y., Distributed Birefringence Measurement of a Polarization-Maintaining Fiber With an Extended Range Based on an Enhanced Brillouin Dynamic Grating; *JPHOT Aug. 2020 7102607*
Jiang, T., see Zhao, L., *JPHOT June 2020 5501111*
Jiang, W., see Yuan, F., *JPHOT Feb. 2020 7100109*
Jiang, W., see Zhang, B., *JPHOT April 2020 6600610*
Jiang, W., see Leng, L., *JPHOT Oct. 2020 6602212*
Jiang, X., see Yu, H., *JPHOT April 2020 6801310*
Jiang, X., see Sheng, A., *JPHOT April 2020 6100607*
Jiang, Y., see Li, C., *JPHOT Aug. 2020 7202211*
Jiang, Z., see Wang, Q., *JPHOT Oct. 2020 1504108*
Jiang, Z., see Hu, C., *JPHOT Oct. 2020 1504008*
Jiang, Z., Pan, X., He, X., Kong, Y., Wang, S., and Liu, C., Phase Retrieval of On-Axis Digital Holography With Modified Coherent Diffraction Imaging; *JPHOT Dec. 2020 6901712*
Jiao, G., see Han, Z., *JPHOT Oct. 2020 6802815*
Jiao, H., see Chen, Y., *JPHOT Aug. 2020 7904114*
Jiao, H., see Sang, T., *JPHOT April 2020 4500111*
Jiao, S., see Feng, J., *JPHOT Aug. 2020 6901509*
Jie, J., see He, X., *JPHOT Aug. 2020 2200410*
Jima, M.A., see Niang, A., *JPHOT April 2020 6500308*
Jin, C., see Xu, L., *JPHOT Oct. 2020 6803310*
Jin, F., see Wu, Y., *JPHOT Oct. 2020 7000913*
Jin, H., Hu, R., Xie, P., Huang, C., Wang, F., and Lin, C., Study on the Photoacoustic Technology to Simultaneous In-Situ Detection of the Cavity Ring-Down Spectrum for Multi-Optical Parameters; *JPHOT April 2020 6800711*
Jin, L., Wu, Y., Cao, M., Zhong, Z., Xu, L., Wang, K., Lin, J., Cai, C., Tong, X., Li, R., Niu, L., and Yao, J., Ultrafine Frequency Linearly Tunable Single-Frequency Fiber Laser Based on Intracavity Active Tuning; *JPHOT April 2020 1500806*
Jin, M., see Leng, L., *JPHOT Oct. 2020 6602212*
Jin, T., see Yi, C., *JPHOT Oct. 2020 7102708*
Jin, W., see Zhang, X., *JPHOT June 2020 7903113*
Jin, W., see Han, Z., *JPHOT Oct. 2020 6802815*
Jin, W., see Sankoh, A., *JPHOT Oct. 2020 7905311*
Jin, X., see Chen, M., *JPHOT April 2020 7800510*
Jin, X., see Wang, Y., *JPHOT June 2020 6801711*
Jin, X., Xu, X., Lu, Y., Gao, H., and Yu, L., Stability Analysis and Transient Attraction Dynamics of Flat-Top Solitons via Modulated Driving Fields in Normal Dispersion Microcavity; *JPHOT Oct. 2020 1503915*
Jin, Y., Li, D., Yi, P., Cheng, M., Fu, S., Tang, M., Liu, D., and Deng, L., Adaptive Blind Stokes-Space Based Equalizer for RSOP in SV-DD Systems With High Chromatic Dispersion Tolerance; *JPHOT April 2020 7200913*
Jin, Y., see Choi, J., *JPHOT Oct. 2020 7102910*
Jin, Z., see Yu, X., *JPHOT Aug. 2020 7904011*
Jing, F., see Zhang, H., *JPHOT April 2020 7101608*
Jones, B.H., see Kong, M., *JPHOT Aug. 2020 7904713*
Jourlin, Y., see Koussi, E.K., *JPHOT April 2020 2700111*
Ju, M., Ding, C., and Guo, Y.J., VROH: Visibility Recovery for Outdoor Hazy Image in Scattering Media; *JPHOT Dec. 2020 7001015*
Ju, Y., see Bian, H., *JPHOT April 2020 6801009*
Junior, V.C.S., see Moras, A.L., *JPHOT Oct. 2020 6802910*
Juodawlkis, P.W., see Kharas, D., *JPHOT Dec. 2020 1504612*

K

Kabaoglu, N., see Erdogan, E., *JPHOT Feb. 2020 7900313*
Kampfe, T., see Koussi, E.K., *JPHOT April 2020 2700111*
Kang, C.H., see Kong, M., *JPHOT Aug. 2020 7904713*
Kang, J., see Zhang, Y., *JPHOT Oct. 2020 3900908*
Kang, L., see Tao, X., *JPHOT Aug. 2020 4501308*

- Kang, L.**, see Chen, Q., *JPHOT Feb. 2020 6800112*
- Kasabov, N.**, see Li, Z., *JPHOT Aug. 2020 3900613*
- Kasabov, N.K.**, see Song, S., *JPHOT Oct. 2020 3901016*
- Kazemzadeh, M.**, Xu, W., and Broderick, N.G., Faster and More Accurate Time Domain Electromagnetic Simulation Using Space Transformation; *JPHOT Aug. 2020 4800513*
- Ke, C.**, see Zhong, Y., *JPHOT June 2020 7201310*
- Ke, C.**, see Zhou, K., *JPHOT Oct. 2020 7905412*
- Kelly, B.**, see Zhou, Z., *JPHOT April 2020 7200712*
- Keshavarz, H.**, Hosseini, S.E., Abiri, H., Jamshidi, K., and Plettemeier, D., Bias-Free Silicon-Based Optical Single-Sideband Modulator Without 2nd-Order Sideband; *JPHOT Aug. 2020 5501816*
- khan, M.I.**, see Rahman, S.U., *JPHOT April 2020 4600204*
- Khan, M.Z.M.**, see Mukhtar, S., *JPHOT April 2020 1502110*
- Khan, M.Z.M.**, see Alkhazraji, E., *JPHOT June 2020 6601010*
- Khan, M.Z.M.**, Alkhazraji, E.A., Ragheb, A.M., Esmail, M.A., Tareq, Q., Fathallah, H.A., Qureshi, K.K., and Alshebeili, S., Injection-Locked Quantum-Dash Laser in Far L-Band 192 Gbit/s DWDM Transmission; *JPHOT Oct. 2020 1504211*
- Khandaker, M.U.**, see Zubair, H., *JPHOT June 2020 6801525*
- Kharas, D.**, Plant, J.J., Loh, W., Swint, R.B., Bramhavar, S., Heidelberger, C., Yegnanarayanan, S., and Juodawlkis, P.W., High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity; *JPHOT Dec. 2020 1504612*
- Kheireddine, M.**, see Kong, M., *JPHOT Aug. 2020 7904713*
- Khreishah, A.**, see Shao, S., *JPHOT Feb. 2020 7900615*
- Kikuchi, H.**, see Hirano, Y., *JPHOT April 2020 6600807*
- Kim, G.**, see Koo, S., *JPHOT Aug. 2020 4800607*
- Kim, J.**, see Wijesinghe, R.E., *JPHOT Aug. 2020 3700611*
- Kim, K.**, see Koo, S., *JPHOT Aug. 2020 4800607*
- Kim, M.Y.**, see Kwon, K., *JPHOT Aug. 2020 3900714*
- Kim, N.**, see Kwon, K., *JPHOT Aug. 2020 3900714*
- Kim, P.**, see Wijesinghe, R.E., *JPHOT Aug. 2020 3700611*
- Kim, S.**, see Im, C., *JPHOT Oct. 2020 6601910*
- Kim, S.**, see Bhandari, B., *JPHOT Dec. 2020 6602511*
- Kim, T.**, see Im, C., *JPHOT Oct. 2020 6601910*
- Kintaka, K.**, see Watanabe, A., *JPHOT Dec. 2020 4502108*
- Kleinert, S.**, see Andrade, J.R.C., *JPHOT April 2020 1500609*
- Koilkpillai, R.D.**, see Sobhanan, A., *JPHOT Feb. 2020 7800107*
- Komanec, M.**, see Vallejo, L., *JPHOT Feb. 2020 5500309*
- Komanec, M.**, see Bohata, J., *JPHOT June 2020 5501414*
- Komanec, M.**, see Nguyen, D., *JPHOT Dec. 2020 5502814*
- Kong, L.**, Wu, Y., Zhao, Y., Dong, L., Hui, M., Liu, M., and Liu, X., Robust Imaging Photoplethysmography in Long-Distance Motion; *JPHOT June 2020 3900512*
- Kong, L.**, see Zhou, P., *JPHOT Oct. 2020 6901613*
- Kong, L.**, see Ai, Y., *JPHOT Dec. 2020 7906617*
- Kong, M.**, Lin, J., Guo, Y., Sun, X., Sait, M., Alkhazragi, O., Kang, C.H., Holguin-Lerma, J.A., Kheireddine, M., Ouhssain, M., Jones, B.H., Ng, T.K., and Ooi, B.S., AquaE-lite Hybrid-Solar-Cell Receiver-Modality for Energy-Autonomous Terrestrial and Underwater Internet-of-Things; *JPHOT Aug. 2020 7904713*
- Kong, M.**, see Wang, K., *JPHOT June 2020 7201908*
- Kong, M.**, see Xu, Y., *JPHOT June 2020 6601111*
- Kong, M.**, see Guo, Y., *JPHOT Dec. 2020 7906413*
- Kong, Y.**, see Jiang, Z., *JPHOT Dec. 2020 6901712*
- Koo, S.**, Kim, G., Lee, D.H., Kim, K., and Lee, M., Copying a Plasmonic Signal From an Optical Signal; *JPHOT Aug. 2020 4800607*
- Kotlyar, V.V.**, Nalimov, A.G., Stafeev, S.S., Kovalev, A.A., and Porfirev, A.P., Orbital Energy and Spin Flows in a Strong Focus of Laser Light; *JPHOT Oct. 2020 4501713*
- Kou, J.**, see Chu, C., *JPHOT June 2020 1600207*
- Koussi, E.K.**, Bruhier, H., Higuaita, M.A.U., Verrier, I., Veillas, C., Kampfe, T., Reynaud, S., Crespo-Monteiro, N., Parriaux, O., and Jourlin, Y., Resonant Reflection From Cylindrical Grating-Waveguide Under Holistic Excitation; *JPHOT April 2020 2700111*
- Kovalev, A.A.**, see Kotlyar, V.V., *JPHOT Oct. 2020 4501713*
- Kreipe, B.**, see Andrade, J.R.C., *JPHOT April 2020 1500609*
- Krylov, A.**, Senatorov, A., and Yatsenko, Y., Nonlinear Spectrum Compression of Negatively Chirped Picosecond Pulses in Dispersion-Shifted Telecom Fiber; *JPHOT April 2020 7100515*
- Kuan, P.**, see Bi, W., *JPHOT Dec. 2020 3200608*
- Kudrawiec, R.**, see Maczko, H.S., *JPHOT Aug. 2020 6101013*
- Kumar, A.**, see Vejanndla, K., *JPHOT Feb. 2020 7900412*
- Kumar, A.**, see Uday, T., *JPHOT April 2020 7902115*
- Kumar, G.**, see Dhriti, K., *JPHOT Dec. 2020 4801010*
- Kumar, H.**, Basu, R., and Chang, G., Impact of Temperature and Doping on the Performance of Ge/Ge_{1-x}Sn_x/Ge Heterojunction Phototransistors; *JPHOT June 2020 6801814*
- Kumar, S.**, see Bidaki, E., *JPHOT Feb. 2020 7200117*
- Kuo, C.**, see Chen, P., *JPHOT June 2020 4100115*
- Kuo, H.**, see Chu, C., *JPHOT June 2020 1600207*
- Kuo, W.**, see Tsai, Y., *JPHOT Dec. 2020 2400409*
- Kuo, Y.**, see Lin, C., *JPHOT Aug. 2020 4100218*
- Kutluyarov, R.V.**, see Lyubopytov, V.S., *JPHOT Feb. 2020 6100117*
- Kwon, K.**, Kwon, K.H., Erdenebat, M., Piao, Y., Lim, Y., Zhao, Y., Kim, M.Y., and Kim, N., Advanced Three-Dimensional Visualization System for an Integral Imaging Microscope Using a Fully Convolutional Depth Estimation Network; *JPHOT Aug. 2020 3900714*
- Kwon, K.H.**, see Kwon, K., *JPHOT Aug. 2020 3900714*

L

- Lai, C.**, see Gupta, A.K., *JPHOT Oct. 2020 2200611*
- Lai, H.**, see Gao, G., *JPHOT April 2020 3900216*
- Lai, W.**, see Wei, R., *JPHOT April 2020 3200208*
- Laleg, T.M.**, see Alalwan, A., *JPHOT Dec. 2020 7907012*
- Lam, H.Q.**, see Xia, R., *JPHOT April 2020 1501310*
- Lan, M.**, and Li, X., Vertically Coupled Partially Tapered Ridge Waveguide Semiconductor FP Laser With Improved Divergence Angles; *JPHOT Oct. 2020 1504312*
- Lan, T.**, see Iroegbu, P.I., *JPHOT Oct. 2020 1503612*
- Latorre-Carmona, P.**, see Ahmadi, K., *JPHOT June 2020 6500810*
- Le, M.**, see Yu, Y., *JPHOT Oct. 2020 6501012*
- Le Minh, H.**, see Younus, O.I., *JPHOT June 2020 7902814*
- Le Roux, X.**, see Zhang, W., *JPHOT Feb. 2020 2200108*
- Lee, C.**, Zeng, R., Yang, C., Lin, C., Ma, C., and Liu, W., Tapered Polymer Fiber Inclinometers; *JPHOT June 2020 7100910*
- Lee, D.**, see Wijesinghe, R.E., *JPHOT Aug. 2020 3700611*
- Lee, D.H.**, see Koo, S., *JPHOT Aug. 2020 4800607*
- Lee, J.**, see Wijesinghe, R.E., *JPHOT Aug. 2020 3700611*
- Lee, J.**, see Wijesinghe, R.E., *JPHOT Aug. 2020 3700611*
- Lee, J.**, see Sankoh, A., *JPHOT Oct. 2020 7905311*
- Lee, K.**, see Im, C., *JPHOT Oct. 2020 6601910*
- Lee, K.**, see Bhandari, B., *JPHOT Dec. 2020 6602511*
- Lee, M.**, see Koo, S., *JPHOT Aug. 2020 4800607*
- Lee, S.**, see Im, C., *JPHOT Oct. 2020 6601910*
- Lee, S.**, see Bhandari, B., *JPHOT Dec. 2020 6602511*
- Lee, X.H.**, see Yu, Y., *JPHOT Oct. 2020 6501012*
- Lei, H.**, Zhang, Y., Park, K., Ansari, I.S., Pan, G., and Alouini, M., Performance Analysis of Dual-Hop RF-UWOC Systems; *JPHOT April 2020 7901915*
- Lei, L.**, see Wang, Y., *JPHOT Dec. 2020 3200712*
- Lei, P.**, see Zhao, L., *JPHOT Feb. 2020 1500107*
- Lei, P.**, see Sun, B., *JPHOT April 2020 1501607*
- Lei, P.**, see Guo, R., *JPHOT June 2020 5501316*
- Lei, P.**, see Sun, B., *JPHOT June 2020 1502310*
- Lei, S.**, Liu, B., Gao, Y., Dong, X., Gong, Y., Xu, J., Xu, Y., Wang, D., Guo, Z., Wu, T., Zhou, C., Cai, Z., Lu, Y., and Chen, Z., Investigation on Circadian Action and Color Quality in Laser-Based Illuminant for General Lighting and Display; *JPHOT Aug. 2020 8200509*
- Lei, T.**, see Feng, J., *JPHOT Aug. 2020 6901509*
- Lei, T.**, see Fan, J., *JPHOT Oct. 2020 4601108*
- Lei, W.**, see Li, H., *JPHOT Dec. 2020 7906512*
- Leng, J.**, see Chen, Y., *JPHOT Dec. 2020 1504713*

- Leng, L., Jin, M., Lin, Z., Zhang, C., Ding, D., and Jiang, W., Ultra-Broadband, Fabrication Tolerant Optical Coupler for Arbitrary Splitting Ratio Using Particle Swarm Optimization Algorithm; *JPHOT Oct. 2020 6602212*
- Leng, Y., see Qian, J., *JPHOT June 2020 3200306*
- Leo, G., see Rocco, D., *JPHOT June 2020 4500507*
- Levchenko, A.E., see Niang, A., *JPHOT April 2020 6500308*
- Li, A., see Zhang, B., *JPHOT Feb. 2020 6900208*
- Li, A., see Luan, G., *JPHOT April 2020 6900508*
- Li, B., see Wu, M., *JPHOT June 2020 7101708*
- Li, B., see Zhang, M., *JPHOT Dec. 2020 7906212*
- Li, C., see Lin, C., *JPHOT Aug. 2020 4100218*
- Li, C., Li, J., Xu, Z., and Wang, J., Study on the k-Connectivity of UV Communication Network Under the Node Distribution of RWP Mobility Model in the Arbitrary Polygon Area; *JPHOT Aug. 2020 7903912*
- Li, C., Tang, J., Jiang, Y., Cheng, C., Cai, L., and Yang, M., An Enhanced Distributed Acoustic Sensor With Large Temperature Tolerance Based on Ultra-Weak Fiber Bragg Grating Array; *JPHOT Aug. 2020 7202211*
- Li, C., see Su, X., *JPHOT Aug. 2020 7102114*
- Li, C., see Chen, P., *JPHOT June 2020 4100115*
- Li, C., see Wang, Z., *JPHOT June 2020 4800410*
- Li, C., Chang, C., and Lu, D., Full-Duplex Self-Recovery Optical Fibre Transport System Based on a Passive Single-Line Bidirectional Optical Add/Drop Multiplexer; *JPHOT Oct. 2020 7202310*
- Li, D., see Liu, Y., *JPHOT Aug. 2020 4900308*
- Li, D., see Yang, Y., *JPHOT Aug. 2020 7800912*
- Li, D., see Jin, Y., *JPHOT April 2020 7200913*
- Li, D., see Zhou, Y., *JPHOT June 2020 4500414*
- Li, E., see Tang, J., *JPHOT April 2020 1501107*
- Li, F., see Iroegbu, P.I., *JPHOT Oct. 2020 1503612*
- Li, G., see Zhang, Z., *JPHOT Aug. 2020 8200610*
- Li, G., see Liu, Y., *JPHOT Aug. 2020 7102311*
- Li, G., see Di, Z., *JPHOT April 2020 7101308*
- Li, G., Zhang, G., Lou, R., Wang, Y., Xie, X., Wang, J., Wang, Y., and Cheng, G., Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber; *JPHOT April 2020 1501009*
- Li, H., see Xie, S., *JPHOT Aug. 2020 6802008*
- Li, H., see Sun, T., *JPHOT Feb. 2020 8400112*
- Li, H., see Hou, S., *JPHOT April 2020 1501408*
- Li, H., see Peng, L., *JPHOT April 2020 5500608*
- Li, H., see Gong, B., *JPHOT April 2020 6500208*
- Li, H., Huang, H., Xu, Y., Wei, Z., Yuan, S., Lin, P., Wu, H., Lei, W., Fang, J., and Chen, Z., A Fast and High-Accuracy Real-Time Visible Light Positioning System Based on Single LED Lamp With a Beacon; *JPHOT Dec. 2020 7906512*
- Li, J., see Yang, Y., *JPHOT Aug. 2020 7800912*
- Li, J., see Li, C., *JPHOT Aug. 2020 7903912*
- Li, J., Yang, S., Chen, H., and Chen, M., Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength; *JPHOT Aug. 2020 6601309*
- Li, J., see Li, M., *JPHOT Aug. 2020 7904308*
- Li, J., see Yi, J., *JPHOT Feb. 2020 6100408*
- Li, J., see Liu, S., *JPHOT Feb. 2020 6900411*
- Li, J., see Zhang, J., *JPHOT Feb. 2020 6100307*
- Li, J., see Hou, S., *JPHOT April 2020 1501408*
- Li, J., see Liu, F., *JPHOT April 2020 1500910*
- Li, J., see Liu, C., *JPHOT April 2020 7200811*
- Li, J., see Zhang, B., *JPHOT April 2020 6600610*
- Li, J., see Wang, Y., *JPHOT April 2020 8400214*
- Li, J., see Shiu, R., *JPHOT June 2020 7902908*
- Li, J., see Pan, W., *JPHOT June 2020 1502608*
- Li, J., see Huang, H., *JPHOT June 2020 1503008*
- Li, J., see Wu, M., *JPHOT June 2020 7101708*
- Li, J., see Yu, W., *JPHOT Oct. 2020 2700308*
- Li, J., Li, Y., Cen, Y., Zhang, C., Luo, T., and Yang, D., Applications of Neural Networks for Spectrum Prediction and Inverse Design in the Terahertz Band; *JPHOT Oct. 2020 5900509*
- Li, J., see Wang, C., *JPHOT Dec. 2020 5502411*
- Li, J., see Han, X., *JPHOT Dec. 2020 6901812*
- Li, J., see Meng, X., *JPHOT Dec. 2020 5502909*
- Li, J.L., Zhao, F., and Yu, J., D-band Millimeter Wave Generation and Transmission Through Radio-Over-Fiber System; *JPHOT April 2020 5500708*
- Li, K., Yang, S., Wang, X., Li, Z., and Zhang, J., Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation; *JPHOT Feb. 2020 1500409*
- Li, K., see Yu, J., *JPHOT Feb. 2020 7900808*
- Li, K., see Chen, Y., *JPHOT April 2020 7902309*
- Li, K., see Wang, Y., *JPHOT June 2020 6100813*
- Li, K., see Liu, B., *JPHOT June 2020 3400112*
- Li, K., Yang, S., Liao, Y., Lin, X., Wang, X., Zhang, J., and Li, Z., Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging; *JPHOT Oct. 2020 1503811*
- Li, L., see Yang, W., *JPHOT April 2020 6801409*
- Li, L., Yang, W., Shui, T., and Wang, X., Ultrasensitive Sizing Sensor for a Single Nanoparticle in a Hybrid Nonlinear Microcavity; *JPHOT June 2020 4500708*
- Li, L., see Han, Z., *JPHOT Oct. 2020 6802815*
- Li, L., see Xue, Y., *JPHOT Oct. 2020 1503710*
- Li, L., see Yuan, B., *JPHOT Dec. 2020 3030669*
- Li, L., see Guo, J., *JPHOT Dec. 2020 7906815*
- Li, L., see Zhang, B., *JPHOT Dec. 2020 2201008*
- Li, M., Zeng, H., Yang, Y., Guo, Y., and Li, J., Prediction Algorithm of Key Design Parameters for Space Chaotic Optical Communication System; *JPHOT Aug. 2020 7904308*
- Li, M., see Xiong, B., *JPHOT April 2020 7100708*
- Li, M., see Nie, Y., *JPHOT April 2020 5300107*
- Li, M., Zhao, Y., Ma, Y., and Zhang, G., Intrusion Discrimination in Terms of LMD and ICA With Combined Features in The Fiber-Optic Perimeter System; *JPHOT April 2020 7101414*
- Li, M., Zhang, Y., Chen, Z., Zhang, Y., Song, Y., and Zhang, X., Investigation of the Radiation Effect on BOTDR Under Low Space Radiation Doses; *JPHOT Dec. 2020 6803508*
- Li, N., see Zhou, Y., *JPHOT June 2020 4500414*
- Li, P., see Lu, X., *JPHOT June 2020 5500911*
- Li, P., see Feng, X., *JPHOT Oct. 2020 5502208*
- Li, Q., see Xie, Z.T., *JPHOT Aug. 2020 4501510*
- Li, Q., see Sun, T., *JPHOT Feb. 2020 8400112*
- Li, Q., see Ho, C.P., *JPHOT April 2020 6600307*
- Li, Q., see Zhuang, Y., *JPHOT June 2020 7201707*
- Li, Q., see Yan, B., *JPHOT June 2020 7600213*
- Li, Q., see Chen, C., *JPHOT June 2020 7000414*
- Li, Q., see Chen, Z., *JPHOT Dec. 2020 6101108*
- Li, R., see Shen, Z., *JPHOT Aug. 2020 4601010*
- Li, R., see Jin, L., *JPHOT April 2020 1500806*
- Li, R., see Pan, W., *JPHOT June 2020 1502608*
- Li, R., see Qian, J., *JPHOT June 2020 3200306*
- Li, S., see Deng, H., *JPHOT June 2020 7000511*
- Li, S., see Wang, L., *JPHOT June 2020 4600712*
- Li, S., see Wang, X., *JPHOT Dec. 2020 3200510*
- Li, T., see Cui, J., *JPHOT Aug. 2020 6802208*
- Li, T., see Ning, Y., *JPHOT Feb. 2020 6900316*
- Li, T., see Zhao, L., *JPHOT Feb. 2020 1500107*
- Li, T., see Sun, B., *JPHOT April 2020 1501607*
- Li, T., see Sun, B., *JPHOT June 2020 1502310*
- Li, W., see Wang, Y., *JPHOT Aug. 2020 7903611*
- Li, W., see Sun, W., *JPHOT Feb. 2020 7800208*
- Li, W., see Chen, Y., *JPHOT April 2020 3700109*
- Li, X., see Tao, X., *JPHOT Aug. 2020 4501308*
- Li, X., see Lin, R., *JPHOT Aug. 2020 4600907*
- Li, X., see Min, C., *JPHOT April 2020 7500310*
- Li, X., see Li, Y., *JPHOT April 2020 4600410*
- Li, X., see Xu, Q., *JPHOT April 2020 6900807*
- Li, X., see Xu, Q., *JPHOT April 2020 6900807*

- Li, X.**, Ghassemlooy, Z., Zvanovec, S., Perez-Jimenez, R., and Haigh, P.A., Should Analogue Pre-Equalisers be Avoided in VLC Systems?; *JPHOT April 2020 7901014*
- Li, X.**, see Liu, F., *JPHOT April 2020 1500910*
- Li, X.**, see Zhang, J., *JPHOT April 2020 6900914*
- Li, X.**, Liu, X., Qin, Y., Yang, D., and Ji, Y., Ultra-Low Index-Contrast Polymeric Photonic Crystal Nanobeam Electro-Optic Modulator; *JPHOT June 2020 4900208*
- Li, X.**, see Feng, J., *JPHOT June 2020 1502908*
- Li, X.**, see Lan, M., *JPHOT Oct. 2020 1504312*
- Li, X.**, see Bi, W., *JPHOT Dec. 2020 3200608*
- Li, X.**, see Li, Y., *JPHOT Dec. 2020 7906915*
- Li, X.**, see Xin, Y., *JPHOT Dec. 2020 7103209*
- Li, Y.**, see Zhang, L., *JPHOT Aug. 2020 6601208*
- Li, Y.**, see Zhang, L., *JPHOT Aug. 2020 6601208*
- Li, Y.**, see Liu, Y., *JPHOT Aug. 2020 7102311*
- Li, Y.**, Lu, P., Qu, Z., Zhang, W., Ni, W., Liu, D., and Zhang, J., An Optical Fiber Twist Sensor With Temperature Compensation Mechanism Based on T-SMS Structure; *JPHOT Feb. 2020 6800308*
- Li, Y.**, see Yu, J., *JPHOT Feb. 2020 7900808*
- Li, Y.**, see Sun, T., *JPHOT Feb. 2020 8400112*
- Li, Y.**, see Fan, J., *JPHOT Feb. 2020 8200218*
- Li, Y.**, Zhang, Y., and Zhu, Y., Lommel-Gaussian Pulsed Beams Carrying Orbital Angular Momentum Propagation in Asymmetric Oceanic Turbulence; *JPHOT Feb. 2020 7900915*
- Li, Y.**, see Zhang, X., *JPHOT April 2020 7100410*
- Li, Y.**, Chen, Y., Zhou, W., Tang, X., Shi, J., Zhao, L., Yu, J., and Chang, G., D-Band mm-Wave SSB Vector Signal Generation Based on Cascaded Intensity Modulators; *JPHOT April 2020 7201111*
- Li, Y.**, Luo, J., Li, X., Pu, M., Ma, X., Xie, X., Shi, J., and Luo, X., Switchable Quarter-Wave Plate and Half-Wave Plate Based on Phase-Change Metasurface; *JPHOT April 2020 4600410*
- Li, Y.**, see Chen, Y., *JPHOT April 2020 7902309*
- Li, Y.**, see Wang, C., *JPHOT April 2020 6801111*
- Li, Y.**, see Zhang, H., *JPHOT April 2020 7101608*
- Li, Y.**, see Zhang, B., *JPHOT April 2020 6600610*
- Li, Y.**, see Liu, P., *JPHOT June 2020 5501210*
- Li, Y.**, see Zhou, Y., *JPHOT June 2020 4500414*
- Li, Y.**, see Guo, R., *JPHOT June 2020 5501316*
- Li, Y.**, see Wang, W., *JPHOT June 2020 6901210*
- Li, Y.**, see Zhang, Z., *JPHOT June 2020 7101908*
- Li, Y.**, see Qian, J., *JPHOT June 2020 3200306*
- Li, Y.**, see Iroegbu, P.I., *JPHOT Oct. 2020 1503612*
- Li, Y.**, see Lv, B., *JPHOT Oct. 2020 4601410*
- Li, Y.**, see Li, J., *JPHOT Oct. 2020 5900509*
- Li, Y.**, Geng, T., Li, X., Wang, Y., and Gao, S., Measurement Approaches and Implementation of a Fading Characterization Tester for Evaluating Optical Turbulent Channels; *JPHOT Dec. 2020 7906915*
- Li, Z.**, Jia, Z., Yang, J., and Kasabov, N., Low Illumination Video Image Enhancement; *JPHOT Aug. 2020 3900613*
- Li, Z.**, see Liu, Y., *JPHOT Aug. 2020 4900308*
- Li, Z.**, see Yang, Y., *JPHOT Aug. 2020 7800912*
- Li, Z.**, see Li, K., *JPHOT Feb. 2020 1500409*
- Li, Z.**, see Zhang, Y., *JPHOT April 2020 7800409*
- Li, Z.**, see Chu, C., *JPHOT June 2020 7902409*
- Li, Z.**, see Li, K., *JPHOT Oct. 2020 1503811*
- Li, Z.**, see Chen, Y., *JPHOT Oct. 2020 7103109*
- Li, Z.**, see Sun, Y., *JPHOT Oct. 2020 7801218*
- Lian, T.**, Yang, K., Wang, X., Jiang, M., Sun, S., Niu, D., and Zhang, D., Electro-Absorption Optical Modulator Based on Graphene-Buried Polymer Waveguides; *JPHOT Aug. 2020 6601610*
- Lian, T.**, see Lv, J., *JPHOT June 2020 7800810*
- Lian, Z.**, see Chen, E., *JPHOT Feb. 2020 1500507*
- Liang, H.**, Shen, T., Feng, Y., Xia, Z., and Liu, H., A Surface Plasmon Resonance Temperature Sensing Unit Based on a Graphene Oxide Composite Photonic Crystal Fiber; *JPHOT June 2020 7201811*
- Liang, K.**, see Tsai, Y., *JPHOT Dec. 2020 2400409*
- Liang, W.**, see Zhang, B., *JPHOT April 2020 6600610*
- Liang, W.**, Wang, H., Huang, X., Zhou, J., and Liu, W., 56 Gbit/s OOK Signal in C-band Over 20 km Dispersion-Uncompensated Link Transmission With Receiver-Side EDC Algorithm; *JPHOT Oct. 2020 7905707*
- Liang, X.**, see Pan, W., *JPHOT June 2020 1502608*
- Liao, M.**, see Bi, W., *JPHOT Dec. 2020 3200608*
- Liao, S.**, see Liu, L., *JPHOT June 2020 4500312*
- Liao, S.**, Bao, H., Zhang, T., Liu, J., Liao, X., and Liu, L., Integrated Optical Power Splitter With Continuously Adjustable Power Splitting Ratio; *JPHOT Dec. 2020 7801513*
- Liao, X.**, see Wu, Y., *JPHOT April 2020 7901305*
- Liao, X.**, see Hong, C., *JPHOT June 2020 7902605*
- Liao, X.**, see Liu, B., *JPHOT Oct. 2020 3900817*
- Liao, X.**, see Liao, S., *JPHOT Dec. 2020 7801513*
- Liao, Y.**, see Li, K., *JPHOT Oct. 2020 1503811*
- Lim, G.**, Park, H., and Han, S., Nonlinearity Mitigation of Multi-Level Optical Transmission Using Spectrum-Split Digital Pre-Distortion; *JPHOT Feb. 2020 7200208*
- Lim, Y.**, see Kwon, K., *JPHOT Aug. 2020 3900714*
- Lin, B.**, see Lv, J., *JPHOT June 2020 7800810*
- Lin, C.**, Wu, J., Li, C., Chen, P., Pai, N., and Kuo, Y., Enhancement of Chest X-Ray Images to Improve Screening Accuracy Rate Using Iterated Function System and Multilayer Fractional-Order Machine Learning Classifier; *JPHOT Aug. 2020 4100218*
- Lin, C.**, see Jin, H., *JPHOT April 2020 6800711*
- Lin, C.**, see Chen, P., *JPHOT June 2020 4100115*
- Lin, C.**, see Lee, C., *JPHOT June 2020 7100910*
- Lin, C.**, see Tsai, Y., *JPHOT Dec. 2020 2400409*
- Lin, D.**, see Hong, C., *JPHOT June 2020 7902605*
- Lin, G.**, see Bian, H., *JPHOT April 2020 6801009*
- Lin, G.**, see Hu, C., *JPHOT Oct. 2020 1504008*
- Lin, H.**, see Zhang, H., *JPHOT April 2020 7101608*
- Lin, J.**, see Kong, M., *JPHOT Aug. 2020 7904713*
- Lin, J.**, see Cai, J., *JPHOT April 2020 7000310*
- Lin, J.**, see Jin, L., *JPHOT April 2020 1500806*
- Lin, K.**, see Wu, Y., *JPHOT April 2020 7901305*
- Lin, K.**, see Hong, C., *JPHOT June 2020 7902605*
- Lin, P.**, see Li, H., *JPHOT Dec. 2020 7906512*
- Lin, Q.**, see Zhou, Y., *JPHOT June 2020 4500414*
- Lin, R.**, Alnakhli, Z., AlQatari, F., and Li, X., Analysis of Tapered Nanopillars for Reflective Metaleins: The Role of Higher-Order Modes; *JPHOT Aug. 2020 4600907*
- Lin, S.**, Qiu, Z., and Chen, C., Actively Q-Switched Tm:YAP Laser Constructed Using an Electro-Optic Periodically Poled Lithium Niobate Bragg Modulator; *JPHOT Oct. 2020 1503509*
- Lin, W.**, see Huang, H., *JPHOT June 2020 1503008*
- Lin, W.**, see Yeh, C., *JPHOT Oct. 2020 7102807*
- Lin, W.**, see Yeh, C., *JPHOT Dec. 2020 7202805*
- Lin, X.**, see Li, K., *JPHOT Oct. 2020 1503811*
- Lin, Y.**, see Peng, Z., *JPHOT Feb. 2020 8200108*
- Lin, Y.**, see Chen, Y., *JPHOT April 2020 2400207*
- Lin, Y.**, see Yu, Y., *JPHOT Oct. 2020 6501012*
- Lin, Z.**, Ba, Z., and Wang, X., Broadband High-Efficiency Electromagnetic Orbital Angular Momentum Beam Generation Based on a Dielectric Metasurface; *JPHOT June 2020 4600611*
- Lin, Z.**, see Leng, L., *JPHOT Oct. 2020 6602212*
- Lipatov, D.S.**, see Niang, A., *JPHOT April 2020 6500308*
- Little, T.D.C.**, see Shao, S., *JPHOT Feb. 2020 7900615*
- Liu, A.**, see Chen, H., *JPHOT Dec. 2020 7103412*
- Liu, B.**, see Lei, S., *JPHOT Aug. 2020 8200509*
- Liu, B.**, see Xu, F., *JPHOT Feb. 2020 2500107*
- Liu, B.**, Luo, Y., Li, K., and Zhao, X., X-Ray Layered Refocusing Imaging Based on Linear Scanning; *JPHOT June 2020 3400112*
- liu, B.**, see han, S., *JPHOT June 2020 7201510*
- Liu, B.**, Xie, Y., Zhang, Y., Ye, Y., Song, T., Liao, X., and Liu, Y., ARM-Embedded Implementation of a Novel Color Image Encryption and Transmission System Based on Optical Chaos; *JPHOT Oct. 2020 3900817*

- Liu, C., *see* Fu, C., *JPHOT April 2020 4600511*
- Liu, C., *see* Zhang, Y., *JPHOT April 2020 7800409*
- Liu, C., Li, J., Tung, Y., Yang, C., Cheng, W., Huang, S., and Cheng, W., Enhancement of Tetrahedral Chromium (Cr^{4+}) Concentration for High-Gain in Single-Mode Crystalline Core Fibers; *JPHOT April 2020 7200811*
- Liu, C., *see* Wang, Y., *JPHOT April 2020 8400214*
- Liu, C., Zhang, C., Pang, S., Dong, H., Zhang, Z., Chen, D., Zhu, W., Zhang, J., and Hao, Y., Enhancing the Performance of Two-Terminal All-Perovskite Tandem Solar Cells by the Optical Coupling Layer Beyond the Antireflection Function; *JPHOT Oct. 2020 8400312*
- Liu, C., *see* Wu, Y., *JPHOT Oct. 2020 7000913*
- Liu, C., *see* Jiang, Z., *JPHOT Dec. 2020 6901712*
- Liu, C., *see* Nazempour, R., *JPHOT Dec. 2020 4200107*
- Liu, D., *see* Li, Y., *JPHOT Feb. 2020 6800308*
- Liu, D., *see* Zhou, K., *JPHOT Feb. 2020 7100210*
- Liu, D., *see* Tu, Y., *JPHOT April 2020 7901410*
- Liu, D., *see* Wu, Z., *JPHOT April 2020 1501807*
- Liu, D., *see* Jin, Y., *JPHOT April 2020 7200913*
- Liu, D., *see* Zhong, Y., *JPHOT June 2020 7201310*
- Liu, D., *see* Zhang, W., *JPHOT Aug. 2020 6801612*
- Liu, D., *see* Zhou, K., *JPHOT Oct. 2020 7905412*
- Liu, D., *see* Luan, J., *JPHOT Dec. 2020 4601510*
- Liu, F., Zhang, Y., Wu, X., Li, J., Yan, F., Li, X., Qyyum, A., Hu, Z., Zhu, C., and Liu, Y., Lead Sulfide Saturable Absorber Based Passively Mode-Locked Tm-Doped Fiber Laser; *JPHOT April 2020 1500910*
- Liu, F., *see* Wen, H., *JPHOT Dec. 2020 7906010*
- Liu, G., *see* Shao, S., *JPHOT Feb. 2020 7900615*
- Liu, H., *see* Shen, Z., *JPHOT Aug. 2020 4600810*
- Liu, H., *see* Hu, S., *JPHOT Aug. 2020 6100910*
- Liu, H., Pu, X., Chen, Y., Yang, J., and Chen, J., User-Centric Access Scheme Based on Interference Management for Indoor VLC-WIFI Heterogeneous Networks; *JPHOT Aug. 2020 7903712*
- Liu, H., *see* Wang, Y., *JPHOT Aug. 2020 7801009*
- Liu, H., *see* Zhao, L., *JPHOT June 2020 5501111*
- Liu, H., *see* Chen, M., *JPHOT June 2020 4500609*
- Liu, H., *see* Liang, H., *JPHOT June 2020 7201811*
- Liu, H., *see* Chen, Y., *JPHOT Oct. 2020 6802513*
- Liu, J., *see* Zhu, X., *JPHOT Aug. 2020 8200712*
- Liu, J., *see* Zhao, L., *JPHOT Feb. 2020 1500107*
- Liu, J., *see* Xu, R., *JPHOT April 2020 1501708*
- Liu, J., Huang, T., Yin, L., Han, F., and Liu, P., High Sensitivity Terahertz Biosensor Based on Goos-Hänchen Effect in Graphene; *JPHOT April 2020 6801206*
- Liu, J., *see* Yu, W., *JPHOT Oct. 2020 2700308*
- Liu, J., *see* Liao, S., *JPHOT Dec. 2020 7801513*
- Liu, J., *see* Wang, J., *JPHOT Dec. 2020 5502708*
- Liu, J., and Zheng, L., Theoretical and Numerical Analysis for Design of High Ratio Fiber Optic Taper Drawing Process; *JPHOT Dec. 2020 7103712*
- Liu, J., *see* Xin, Y., *JPHOT Dec. 2020 7103209*
- Liu, K., *see* Zhang, X., *JPHOT April 2020 7100410*
- Liu, K., *see* Wang, C., *JPHOT April 2020 6801111*
- Liu, K., *see* Huang, Y., *JPHOT June 2020 7101209*
- Liu, K., Zhong, K., Lu, Z., Xu, D., and Yao, J., Effects of Grain Morphology on Nonlinear Conversion Efficiency of Random Quasi-Phase Matching in Polycrystalline Materials; *JPHOT Dec. 2020 2200910*
- Liu, L., *see* Zhao, C., *JPHOT Aug. 2020 2200511*
- Liu, L., *see* Chen, K., *JPHOT April 2020 7901810*
- Liu, L., *see* Chen, M., *JPHOT April 2020 7800510*
- Liu, L., *see* Xu, L., *JPHOT June 2020 4501009*
- Liu, L., *see* Wang, J., *JPHOT June 2020 2200310*
- Liu, L., Yang, Y., Yue, J., and Liao, S., On-Chip Low-Power Gray Code Generation Based on Opto-Mechanical Microring Resonators; *JPHOT June 2020 4500312*
- Liu, L., *see* Lv, B., *JPHOT Oct. 2020 4601410*
- Liu, L., *see* Liao, S., *JPHOT Dec. 2020 7801513*
- Liu, L., and Xue, W., Instantaneous Microwave Frequency Measurement Based on Two Cascaded Photonic Crystal Nanocavities; *JPHOT Dec. 2020 4501809*
- Liu, M., *see* Kong, L., *JPHOT June 2020 3900512*
- Liu, M., *see* Iroegbu, P.I., *JPHOT Oct. 2020 1503612*
- Liu, P., *see* Liu, J., *JPHOT April 2020 6801206*
- Liu, P., Li, Y., Zou, X., Ye, J., Pan, W., and Yan, L., Multi-Antenna GNSS-Over-Fiber Architecture for Extensive Remote Multi-Baseline Network; *JPHOT June 2020 5501210*
- Liu, P., *see* Hasan, M., *JPHOT Oct. 2020 6802617*
- Liu, Q., and Fok, M.P., Real-Time RF Multi-Dimensional Signal Switching Using Polarization-Dependent Optical Mixing; *JPHOT April 2020 5500808*
- Liu, Q., *see* Deng, H., *JPHOT June 2020 5900213*
- Liu, Q., *see* Zhang, Y., *JPHOT Oct. 2020 3900908*
- Liu, R., *see* Han, L., *JPHOT April 2020 7101508*
- Liu, R., *see* Chen, H., *JPHOT June 2020 7902510*
- Liu, S., Chang, S., Chang, S., and Chen, C., An Amorphous ($\text{Al}_{0.12}\text{Ga}_{0.88}$) $_2\text{O}_3$ Deep Ultraviolet Photodetector; *JPHOT Aug. 2020 6801908*
- Liu, S., Zheng, D., Li, J., Tian, J., Zhong, L., and Lu, X., Quantitative Phase Imaging During Cell Division Based on Dual-Channel Microscopic Interferometry System; *JPHOT Feb. 2020 6900411*
- Liu, S., *see* Chen, E., *JPHOT Feb. 2020 1500507*
- Liu, S., Dou, Z., Zhang, B., Hou, J., Yang, L., and Wu, T., L-band Wavelength-Switchable Dissipative Soliton Resonance Er-doped Fiber Laser; *JPHOT April 2020 1501206*
- Liu, S., *see* Chen, Y., *JPHOT Oct. 2020 7103109*
- Liu, S., *see* Zhang, T., *JPHOT Dec. 2020 9700401*
- Liu, S., *see* Zhang, T., *JPHOT Dec. 2020 5502512*
- Liu, T., *see* Chen, W., *JPHOT Aug. 2020 6601506*
- Liu, T., *see* Zhang, X., *JPHOT April 2020 7100410*
- Liu, T., *see* Wang, C., *JPHOT April 2020 6801111*
- Liu, T., *see* Huang, Y., *JPHOT June 2020 7101209*
- Liu, W., *see* Pang, X., *JPHOT April 2020 6500514*
- Liu, W., *see* Zhong, J., *JPHOT April 2020 7901110*
- Liu, W., *see* Miao, W., *JPHOT April 2020 6500709*
- Liu, W., *see* Chu, C., *JPHOT June 2020 7902409*
- Liu, W., *see* Lee, C., *JPHOT June 2020 7100910*
- Liu, W., *see* Liang, W., *JPHOT Oct. 2020 7905707*
- Liu, X., Gong, C., Fan, B., and Bian, J., High Precision Fabrication Method of Fresnel Diffractive Lenses on Ultrathin Membrane for Imaging Application; *JPHOT Aug. 2020 2400310*
- Liu, X., Liu, Y., Fang, C., Han, G., and Hao, Y., Investigation of Enhanced Transmission and Beaming Effect Through an InSb Subwavelength Grating With a Slit at the Terahertz Range; *JPHOT Feb. 2020 4800112*
- Liu, X., *see* Sun, T., *JPHOT Feb. 2020 8400112*
- Liu, X., *see* Kong, L., *JPHOT June 2020 3900512*
- Liu, X., Wang, W., Rong, Q., and Yu, B., Highly Sensitive Photoacoustic Imaging: A New Strategy for Ultrahigh Spatial Resolution Seismic Physical Model Imaging; *JPHOT June 2020 6901011*
- Liu, X., *see* Chen, H., *JPHOT June 2020 7902510*
- Liu, X., *see* Li, X., *JPHOT June 2020 4900208*
- Liu, X., *see* Zhang, Z., *JPHOT June 2020 7101908*
- Liu, Y., *see* Zhou, Y., *JPHOT Aug. 2020 1503106*
- Liu, Y., Li, Z., Li, D., Yao, Y., Du, J., He, Z., and Xu, K., Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μm Wavelength Band; *JPHOT Aug. 2020 4900308*
- Liu, Y., *see* Zhang, L., *JPHOT Aug. 2020 5501611*
- Liu, Y., Hu, Y., Li, Y., Qin, Q., Li, G., Tan, Z., Wang, M., and Yan, F., Image Compression-Encryption Scheme via Fiber Specklegram-Based Compressive Sensing and Double Random Phase Encoding; *JPHOT Aug. 2020 7102311*
- Liu, Y., *see* Liu, X., *JPHOT Feb. 2020 4800112*
- Liu, Y., *see* Zhao, L., *JPHOT Feb. 2020 1500107*
- Liu, Y., *see* Di, Z., *JPHOT April 2020 7101308*
- Liu, Y., *see* Wu, Y., *JPHOT April 2020 7901305*
- Liu, Y., *see* Zhong, Y., *JPHOT April 2020 2400110*
- Liu, Y., *see* Xia, R., *JPHOT April 2020 1501310*
- Liu, Y., *see* Liu, F., *JPHOT April 2020 1500910*

- Liu, Y., *see* Sun, B., *JPHOT April 2020 1501607*
- Liu, Y., *see* Gao, G., *JPHOT April 2020 3900216*
- Liu, Y., *see* Hong, C., *JPHOT June 2020 7902605*
- Liu, Y., *see* Shen, X., *JPHOT June 2020 6500609*
- Liu, Y., *see* Sun, B., *JPHOT June 2020 1502310*
- Liu, Y., *see* Adnan, A., *JPHOT June 2020 7201405*
- Liu, Y., *see* Zhang, L., *JPHOT June 2020 5501010*
- Liu, Y., Ding, L., Cao, Y., Wan, D., Yuan, G., Huang, B., Voon-Yew Thean, A., Mei, T., Venkatesan, T., Nijhuis, C.A., and Chua, S., The Design of CMOS-Compatible Plasmonic Waveguides for Intra-Chip Communication; *JPHOT Oct. 2020 4800810*
- Liu, Y., *see* Liu, B., *JPHOT Oct. 2020 3900817*
- Liu, Y., *see* Yang, Q., *JPHOT Oct. 2020 4601209*
- Liu, Y., *see* Gunawan, W.H., *JPHOT Oct. 2020 7905205*
- Liu, Y., *see* Lv, W., *JPHOT Dec. 2020 3901113*
- Liu, Z., Peng, Q., Xu, Y., Ren, G., and Ma, H., Misalignment Calculation on Off-Axis Telescope System via Fully Connected Neural Network; *JPHOT Aug. 2020 0600112*
- Liu, Z., *see* He, W., *JPHOT Feb. 2020 6900111*
- Liu, Z., *see* He, W., *JPHOT Feb. 2020 6900111*
- Liu, Z., *see* Zhou, Z., *JPHOT April 2020 7200712*
- Liu, Z., *see* Gao, F., *JPHOT April 2020 1400109*
- Liu, Z., *see* Chu, C., *JPHOT June 2020 7902409*
- Liu, Z., *see* Zhang, L., *JPHOT June 2020 5501511*
- Liu, Z., *see* Qian, J., *JPHOT June 2020 3200306*
- Liu, Z., *see* Chen, J., *JPHOT Oct. 2020 7905611*
- Liu, Z., *see* Fang, J., *JPHOT Dec. 2020 7906110*
- Lo, G., *see* Zhang, L., *JPHOT Aug. 2020 6601208*
- Loh, W., *see* Kharas, D., *JPHOT Dec. 2020 1504612*
- Long, C., *see* Xiao, Y., *JPHOT June 2020 7201215*
- Long, H., *see* Xu, R., *JPHOT April 2020 1501708*
- Long, J., *see* Zhang, Y., *JPHOT Dec. 2020 6501113*
- Lou, R., *see* Li, G., *JPHOT April 2020 1501009*
- Louay, G., *see* Zubair, H., *JPHOT June 2020 6801525*
- Lu, B., *see* Gu, J., *JPHOT Dec. 2020 7103612*
- Lu, D., *see* Li, C., *JPHOT Oct. 2020 7202310*
- Lu, G., *see* Chen, W., *JPHOT Aug. 2020 6601506*
- Lu, H., *see* Zheng, Y., *JPHOT Aug. 2020 3200408*
- Lu, H., *see* Wang, H., *JPHOT Feb. 2020 6800606*
- Lu, H., *see* Zhang, B., *JPHOT April 2020 6600610*
- Lu, H., *see* Zhong, Y., *JPHOT June 2020 7201310*
- Lu, J., *see* Wu, H., *JPHOT April 2020 1500709*
- Lu, J., *see* Chen, H., *JPHOT June 2020 7902510*
- Lu, J., *see* Xu, Y., *JPHOT Oct. 2020 6803208*
- Lu, L., *see* Zhang, G., *JPHOT June 2020 7101008*
- Lu, L., *see* Wang, X., *JPHOT June 2020 6600911*
- Lu, L., *see* Zhou, G., *JPHOT Dec. 2020 5502615*
- Lu, P., *see* Li, Y., *JPHOT Feb. 2020 6800308*
- Lu, P., *see* Chen, E., *JPHOT Feb. 2020 1500507*
- Lu, P., *see* Zhang, W., *JPHOT June 2020 6801612*
- Lu, W., *see* Sun, X., *JPHOT Feb. 2020 6100508*
- Lu, X., *see* Liu, S., *JPHOT Feb. 2020 6900411*
- Lu, X., Pan, W., Zou, X., Bai, W., Li, P., Yan, L., and Teng, C., Wideband and Ambiguous-Free RF Channelizer Assisted Jointly by Spacing and Profile of Optical Frequency Comb; *JPHOT June 2020 5500911*
- Lu, X., *see* Han, X., *JPHOT Dec. 2020 6901812*
- Lu, Y., *see* Lei, S., *JPHOT Aug. 2020 8200509*
- Lu, Y., *see* Peng, Z., *JPHOT Feb. 2020 8200108*
- Lu, Y., *see* Jin, X., *JPHOT Oct. 2020 1503915*
- Lu, Y., *see* Tian, Y., *JPHOT Dec. 2020 7103507*
- Lu, Z., *see* Liu, K., *JPHOT Dec. 2020 2200910*
- Luan, G., Li, A., Chen, Z., and Huang, C., Asymmetric Optical Image Encryption With Silhouette Removal Using Interference and Equal Modulus Decomposition; *JPHOT April 2020 6900508*
- Luan, J., Yang, S., Liu, D., and Zhang, M., Detection of Polarization and Topological Charge Based on Multidimensional Field of Metasurface; *JPHOT Dec. 2020 4601510*
- Luo, A., *see* Zhao, L., *JPHOT June 2020 5501111*
- Luo, A., *see* Chen, Y., *JPHOT Oct. 2020 7103109*
- Luo, B., *see* Shi, T., *JPHOT Aug. 2020 1503211*
- Luo, B., *see* Zhu, H., *JPHOT Feb. 2020 6800214*
- Luo, B., *see* Feng, X., *JPHOT Oct. 2020 5502208*
- Luo, J., *see* Li, Y., *JPHOT April 2020 4600410*
- Luo, J., Wu, D., Miao, Q., Yang, C., and Wei, T., Navigation Ranging Scheme Based on Microwave-Optical Entanglement Prepared by Electro-Opto-Mechanical Converters; *JPHOT April 2020 7500415*
- Luo, J., *see* He, D., *JPHOT April 2020 3900113*
- Luo, J., *see* Wang, Y., *JPHOT June 2020 6801711*
- Luo, K., *see* Wen, H., *JPHOT Dec. 2020 7906010*
- Luo, P., *see* Fu, H., *JPHOT June 2020 1502507*
- Luo, Q., *see* He, J., *JPHOT June 2020 7800712*
- Luo, T., *see* Li, J., *JPHOT Oct. 2020 5900509*
- Luo, X., *see* Zhang, L., *JPHOT Aug. 2020 6601208*
- Luo, X., *see* Zhu, X., *JPHOT Aug. 2020 8200712*
- Luo, X., *see* Li, Y., *JPHOT April 2020 4600410*
- Luo, X., *see* Xiong, B., *JPHOT April 2020 7100708*
- Luo, Y., *see* Xia, R., *JPHOT April 2020 1501310*
- Luo, Y., *see* Ren, Y., *JPHOT June 2020 7000615*
- Luo, Y., *see* Liu, B., *JPHOT June 2020 3400112*
- Luo, Z., *see* Yu, H., *JPHOT April 2020 6801310*
- Lv, B., Ouyang, C., Zhang, H., Xu, Q., Li, Y., Zhang, X., Tian, Z., Gu, J., Liu, L., Han, J., and Zhang, W., All-Dielectric Metasurface-Based Quad-Beam Splitter in the Terahertz Regime; *JPHOT Oct. 2020 4601410*
- Lv, J., Lian, T., Lin, B., Yang, Y., Cao, Y., Yang, X., Yi, Y., Wang, F., and Zhang, D., Low Power Consumption Mode Switch Based on Three-Dimensional Polymer Mach-Zehnder Interferometer; *JPHOT June 2020 7800810*
- Lv, J., Chen, Z., Yin, X., Zhang, Z., Hu, W., and Peng, C., High-Sensitive Refractive Index Sensing Enabled by Topological Charge Evolution; *JPHOT Oct. 2020 4501610*
- Lv, W., Xie, Z., Wang, Q., Ma, H., Shi, J., Liu, Y., Yang, K., Chen, B., and Huang, Y., Tip/tilt Alignment for a Fizeau Interferometer via Defocus-Based Sub-Spot Separation; *JPHOT Dec. 2020 3901113*
- Lyu, T., *see* Xu, Z., *JPHOT April 2020 4900110*
- Lyubopytov, V.S., Kutluyarov, R.V., Bagmanov, V.K., Neumann, N., and Sul-tanov, A.K., Modeling and Optimization of Vortex Modes Propagation in Rectangular Dielectric Waveguides; *JPHOT Feb. 2020 6100117*

M

- Ma, C., *see* Lee, C., *JPHOT June 2020 7100910*
- Ma, H., *see* Liu, Z., *JPHOT Aug. 2020 0600112*
- Ma, H., *see* Wei, W., *JPHOT April 2020 3900414*
- Ma, H., *see* Ren, Y., *JPHOT June 2020 7000615*
- Ma, H., *see* Lv, W., *JPHOT Dec. 2020 3901113*
- Ma, J., *see* Yu, J., *JPHOT Feb. 2020 7900808*
- Ma, J., *see* Yin, D., *JPHOT April 2020 3900312*
- Ma, J., *see* Xiao, Y., *JPHOT June 2020 7201215*
- Ma, J., and Hu, Z., Polarization Multiplexed Optical OFDM System With a Beat Interference Cancellation Receiver; *JPHOT Dec. 2020 7202710*
- Ma, J., Wen, A., Tu, Z., Cheng, X., and Wang, Y., Reconfigurable Photonic Generation of Binary Modulated Microwave Signals; *JPHOT Dec. 2020 5503010*
- Ma, M., Shoman, H., Shekhar, S., Jaeger, N.A.F., and Chrostowski, L., Automated Adaptation and Stabilization of a Tunable WDM Polarization-Independent Receiver on Active Silicon Photonic Platform; *JPHOT Aug. 2020 4900411*
- Ma, P., *see* Zhang, Y., *JPHOT Dec. 2020 6501113*
- Ma, W., *see* Han, L., *JPHOT April 2020 7101508*
- Ma, X., *see* Li, Y., *JPHOT April 2020 4600410*
- Ma, X., Wang, D., Cuadros, A., Mao, T., Zhao, Q., Arce, G.R., and Xu, T., Conveyor X-Ray Tomosynthesis Imaging With Optimized Structured Sequential Illumination; *JPHOT Oct. 2020 3400217*
- Ma, Y., *see* Li, M., *JPHOT April 2020 7101414*
- Ma, Y., *see* Wang, Y., *JPHOT June 2020 1502815*

- Machado, V.M.**, see Torres, J.P.N., *JPHOT Feb. 2020 5500413*
- Machida, K.**, see Hirano, Y., *JPHOT April 2020 6600807*
- Maczko, H.S.**, Kudrawiec, R., and Gladysiewicz, M., Optical Gain Characteristics of BGaAs/GaP Quantum Wells; *JPHOT Aug. 2020 6101013*
- Magnusson, R.**, see Watanabe, A., *JPHOT Dec. 2020 4502108*
- Mahdiraji, G.A.**, see Zubair, H., *JPHOT June 2020 6801525*
- Majumdar, A.K.**, see Miglani, R., *JPHOT Aug. 2020 7904621*
- Malhotra, J.S.**, see Miglani, R., *JPHOT Aug. 2020 7904621*
- Manattayil, J.**, see Ahmad, F., *JPHOT Aug. 2020 7904512*
- Mangini, F.**, see Niang, A., *JPHOT April 2020 6500308*
- Mao, D.**, see Zheng, Y., *JPHOT Aug. 2020 3200408*
- Mao, H.**, see Yan, B., *JPHOT June 2020 7600213*
- Mao, M.**, see Zhao, L., *JPHOT June 2020 5501111*
- Mao, Q.**, see Wei, S., *JPHOT April 2020 1501509*
- Mao, T.**, see Ma, X., *JPHOT Oct. 2020 3400217*
- Mao, X.**, see Min, C., *JPHOT April 2020 7500310*
- Mao, X.**, Hang, Y., Zhou, Y., Zhu, J., Ren, Q., Zhuo, J., and Cai, Y., Probing Composite Vibrational Fingerprints in the Terahertz Range With Graphene Split Ring Resonator; *JPHOT Oct. 2020 5900408*
- mao, Y.**, see han, S., *JPHOT June 2020 7201510*
- Marino, G.**, see Rocco, D., *JPHOT June 2020 4500507*
- Markos, C.**, see Hossain, M.S., *JPHOT June 2020 7202109*
- Mathur, A.**, see Ai, Y., *JPHOT Dec. 2020 7906617*
- Matyas, C.T.**, see You, C., *JPHOT June 2020 4500810*
- Mbonde, H.M.**, Frankis, H.C., and Bradley, J.D.B., Enhanced Nonlinearity and Engineered Anomalous Dispersion in TeO₂-coated Si₃N₄ Waveguides; *JPHOT April 2020 2200210*
- McGloin, D.**, see Wang, L., *JPHOT June 2020 4600712*
- McInerney, J.G.**, see Asghar, H., *JPHOT April 2020 1502211*
- McKendry, J.J.D.**, see Arvanitakis, G.N., *JPHOT April 2020 7901210*
- Mei, G.**, Wu, D., Ding, S., Choy, W.C.H., Wang, K., and Sun, X.W., Optical Tunneling to Improve Light Extraction in Quantum Dot and Perovskite Light-Emitting Diodes; *JPHOT Dec. 2020 1600314*
- Mei, M.**, see Wang, Y., *JPHOT Aug. 2020 7903611*
- Mei, T.**, see Liu, Y., *JPHOT Oct. 2020 4800810*
- Mei, Y.**, see Xu, R., *JPHOT April 2020 1501708*
- Mejia-Salazar, J.R.**, see Picin, O.J., *JPHOT Oct. 2020 7103010*
- Melanson, B.**, see Hartensveld, M., *JPHOT June 2020 8200408*
- Melanson, B.**, see Hartensveld, M., *JPHOT Oct. 2020 8200808*
- Melanson, B.**, see Hartensveld, M., *JPHOT Dec. 2020 8200906*
- Melo, G.**, see Dmitriev, V., *JPHOT Oct. 2020 4800913*
- Memon, K.A.**, Zhang, Q., Butt, R.A., Mohammadani, K.H., Faheem, M., ul Ain, N., Tian, F., and Xin, X., Traffic-Adaptive Inter Wavelength Load Balancing for TWDM PON; *JPHOT Feb. 2020 7200408*
- Meng, J.**, see Zhuang, Y., *JPHOT June 2020 7201707*
- Meng, T.**, see Wang, Y., *JPHOT Oct. 2020 7801108*
- Meng, X.**, Zheng, J., Pu, T., Li, J., Zhang, X., Zhang, Y., and Shao, W., Tunable Photonic Microwave Up-Converter Using Opto-Electronic Oscillator Based on Monolithic Integrated Three-Section Laser; *JPHOT Dec. 2020 5502909*
- Meng, Y.**, Chen, X., Pan, T., Shen, T., and Chen, H., HyperSight: A Precise Decoding Algorithm for VLC With Mobile-Phone Camera; *JPHOT Aug. 2020 7904211*
- Meng, Y.**, see Zhang, L., *JPHOT June 2020 5501511*
- Miao, J.**, see Shi, T., *JPHOT Aug. 2020 1503211*
- Miao, L.**, see Yi, J., *JPHOT Feb. 2020 6100408*
- Miao, L.**, see Zhang, J., *JPHOT Feb. 2020 6100307*
- Miao, Q.**, see Luo, J., *JPHOT April 2020 7500415*
- Miao, W.**, see Pang, X., *JPHOT April 2020 6500514*
- Miao, W.**, Pang, X., and Liu, W., Photonic Wheels and Their Topological Reaction in a Strongly Focused Amplitude Tailored Beam; *JPHOT April 2020 6500709*
- Midrio, M.**, see Rocco, D., *JPHOT Dec. 2020 4501908*
- Miglani, R.**, Malhotra, J.S., Majumdar, A.K., Tubbal, F., and Raad, R., Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas; *JPHOT Aug. 2020 7904621*
- Milosevic, M.M.**, see Yu, X., *JPHOT Oct. 2020 2200708*
- Min, C.**, Chen, X., Mao, X., Li, X., Pan, T., Sun, Q., and Chen, H., A Novel Method for Constructing VLC Equalizer With Active-Passive Hybrid Network; *JPHOT April 2020 7500310*
- Minoni, U.**, see Niang, A., *JPHOT April 2020 6500308*
- Miscuglio, M.**, see Alkabani, Y., *JPHOT April 2020 6600114*
- Miura, M.**, see Hirano, Y., *JPHOT April 2020 6600807*
- Miyamoto, Y.**, see Hirano, Y., *JPHOT April 2020 6600807*
- Modotto, D.**, see Niang, A., *JPHOT April 2020 6500308*
- Modsching, N.**, see Andrade, J.R.C., *JPHOT April 2020 1500609*
- Mohamed, T.**, see Alalwan, A., *JPHOT Dec. 2020 7907012*
- Mohammadani, K.H.**, see Memon, K.A., *JPHOT Feb. 2020 7200408*
- Moradi, F.**, see Zubair, H., *JPHOT June 2020 6801525*
- Moras, A.L.**, Junior, V.C.S., Souza, M.C.M.M., Cirino, G.A., Von Zuben, A.A.G., Barea, L.A.M., and Frateschi, N.C., Integrated Photonic Platform for Robust Differential Refractive Index Sensor; *JPHOT Oct. 2020 6802910*
- Morgner, U.**, see Andrade, J.R.C., *JPHOT April 2020 1500609*
- Morimoto, K.**, Iguchi, A., and Tsuji, Y., Propagation Operator Based Boundary Condition for Finite Element Analysis; *JPHOT Aug. 2020 6601713*
- Morimoto, K.**, see Iguchi, A., *JPHOT Oct. 2020 6602111*
- Motoyama, Y.**, see Hirano, Y., *JPHOT April 2020 6600807*
- Mucchi, L.**, see Seminara, M., *JPHOT Aug. 2020 7903816*
- Mukhtar, S.**, Ashry, I., Shen, C., Ng, T.K., Ooi, B.S., and Khan, M.Z.M., Blue Laser Diode System With an Enhanced Wavelength Tuning Range; *JPHOT April 2020 1502110*

N

- Nakamura, A.**, and Iida, D., Mode Field Diameter Definitions for Few-Mode Fibers Based on Spot Size of Higher-Order Gaussian Mode; *JPHOT April 2020 7200609*
- Nalimov, A.G.**, see Kotlyar, V.V., *JPHOT Oct. 2020 4501713*
- Narimani, M.**, see Pawlikowski, W., *JPHOT Oct. 2020 7905111*
- Natarajan, L.**, see Uday, T., *JPHOT April 2020 7902115*
- Nawaz, T.**, see Seminara, M., *JPHOT Aug. 2020 7903816*
- Nazempour, R.**, Zhang, Q., Liu, C., and Sheng, X., Design of Silicon Photonic Structures for Multi-Site, Multi-Spectral Optogenetics in the Deep Brain; *JPHOT Dec. 2020 4200107*
- Neumann, N.**, see Lyubopytov, V.S., *JPHOT Feb. 2020 6100117*
- Ng, T.K.**, see Kong, M., *JPHOT Aug. 2020 7904713*
- Ng, T.K.**, see Mukhtar, S., *JPHOT April 2020 1502110*
- Ng, T.K.**, see Guo, Y., *JPHOT Dec. 2020 7906413*
- Ngo, Q.M.**, see Giang, D.T., *JPHOT April 2020 7100810*
- Nguyen, D.**, see Vallejo, L., *JPHOT Feb. 2020 5500309*
- Nguyen, D.**, Bohata, J., Spacil, J., Komanec, M., Stevens, N., Ghassemlooy, Z., Dat, P.T., and Zvanovec, S., Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions; *JPHOT Dec. 2020 5502814*
- Nguyen, L.**, see Yang, W., *JPHOT April 2020 6801409*
- Nguyen, V.T.**, see Giang, D.T., *JPHOT April 2020 7100810*
- Ni, G.**, see Zhang, L., *JPHOT June 2020 5501010*
- Ni, J.**, see Guo, J., *JPHOT April 2020 1502009*
- Ni, W.**, see Li, Y., *JPHOT Feb. 2020 6800308*
- Ni, W.**, see Xia, R., *JPHOT April 2020 1501310*
- Ni, W.**, see Zhang, W., *JPHOT June 2020 6801612*
- Niang, A.**, Modotto, D., Tonello, A., Mangini, F., Minoni, U., Zitelli, M., Fabret, M., Jima, M.A., Egorova, O.N., Levchenko, A.E., Semjonov, S.L., Lipatov, D.S., Babin, S., Couderc, V., and Wabnitz, S., Spatial Beam Self-Cleaning in Tapered Yb-Doped GRIN Multimode Fiber With Decelerating Nonlinearity; *JPHOT April 2020 6500308*
- Nie, S.**, see Yin, D., *JPHOT April 2020 3900312*
- Nie, Y.**, Xu, M., Zhang, X., Li, M., and Song, Y., Polarization Coupling Based on Faraday Effect in Whispering-Gallery-Mode Resonator; *JPHOT April 2020 5300107*
- Nijhuis, C.A.**, see Liu, Y., *JPHOT Oct. 2020 4800810*
- Ning, T.**, see Wang, C., *JPHOT Dec. 2020 5502411*
- Ning, Y.**, see Zhou, Y., *JPHOT Aug. 2020 1503106*

Ning, Y., Hu, Y., Cheng, X., Hao, Q., Cheng, Y., Li, T., and Tao, X., Freeform Surface Graded Optimization of Deformable Mirrors in Integrated Zoom and Image Stabilization System Through Vectorial Ray Tracing and Image Point Freezing Method; *JPHOT Feb. 2020 6900316*
Nishimura, T., see Inoue, J., *JPHOT April 2020 6500112*
Niu, D., see Lian, T., *JPHOT Aug. 2020 6601610*
Niu, L., see Jin, L., *JPHOT April 2020 1500806*
Niu, T., see Wang, Z., *JPHOT June 2020 4800410*
Niu, X., see Sang, T., *JPHOT April 2020 4500111*
Noor, N.M., see Zubair, H., *JPHOT June 2020 6801525*

O

O'Carroll, J., see Zhou, Z., *JPHOT April 2020 7200712*
O'Hara, J., see Piao, D., *JPHOT Aug. 2020 3700523*
O'Sullivan, M., see Sankoh, A., *JPHOT Oct. 2020 7905311*
Odedeyi, T., see Zhou, Z., *JPHOT April 2020 7200712*
Ogura, Y., see Inoue, J., *JPHOT April 2020 6500112*
Oh, M., see Im, C., *JPHOT Oct. 2020 6601910*
Oh, M., see Bhandari, B., *JPHOT Dec. 2020 6602511*
Oliveira, O.N., see Picin, O.J., *JPHOT Oct. 2020 7103010*
Omar, N.Y., see Zubair, H., *JPHOT June 2020 6801525*
Ooi, B.S., see Kong, M., *JPHOT Aug. 2020 7904713*
Ooi, B.S., see Mukhtar, S., *JPHOT April 2020 1502110*
Ooi, B.S., see Guo, Y., *JPHOT Dec. 2020 7906413*
Oresegun, A., see Zubair, H., *JPHOT June 2020 6801525*
Ortega, B., see Vallejo, L., *JPHOT Feb. 2020 5500309*
Ortegren, J., see Ebadi, S.M., *JPHOT June 2020 4800309*
Otman, N.A., and Cada, M., Phase-Matched Mid-Infrared Difference Frequency Generation Using a Nanostructured Gallium Arsenide Metamaterial With Nanoholes; *JPHOT June 2020 5900110*
Otomo, A., see Hirano, Y., *JPHOT April 2020 6600807*
Ou, J., see Yang, B., *JPHOT Feb. 2020 5500109*
Ouhssain, M., see Kong, M., *JPHOT Aug. 2020 7904713*
Ouyang, C., see Hu, M., *JPHOT Aug. 2020 5900309*
Ouyang, C., see Lv, B., *JPHOT Oct. 2020 4601410*

P

Paesani, S., see Arabul, E., *JPHOT April 2020 7500114*
Pai, N., see Lin, C., *JPHOT Aug. 2020 4100218*
Pai, N., see Chen, P., *JPHOT June 2020 4100115*
Pan, C., see Huang, X., *JPHOT April 2020 7901512*
Pan, D., see Shi, T., *JPHOT Aug. 2020 1503211*
Pan, D., see Chen, Q., *JPHOT Feb. 2020 6800112*
Pan, D., see Wang, H., *JPHOT Feb. 2020 6800606*
Pan, D., see Xu, F., *JPHOT Feb. 2020 2500107*
Pan, D.Z., see Ying, Z., *JPHOT Dec. 2020 7801311*
Pan, G., see Zhang, J., *JPHOT April 2020 7902011*
Pan, G., see Lei, H., *JPHOT April 2020 7901915*
Pan, J., Chen, Z., Huang, T., Zeng, S., Cheng, Z., Huang, P., Zhao, X., Shum, P.P., and Brambilla, G., Simultaneous Mid-Infrared Gas Sensing and Upconversion Based on Third Harmonic Generation in Cascaded Waveguides; *JPHOT April 2020 6800912*
Pan, J., see Wang, X., *JPHOT Dec. 2020 3200510*
Pan, K., see Gong, L., *JPHOT Feb. 2020 1500306*
Pan, R., see Cai, Y., *JPHOT Aug. 2020 7102508*
Pan, S., see Zhang, Y., *JPHOT April 2020 7800409*
Pan, T., see Meng, Y., *JPHOT Aug. 2020 7904211*
Pan, T., see Min, C., *JPHOT April 2020 7500310*
Pan, W., see Liu, P., *JPHOT June 2020 5501210*
Pan, W., Liang, X., Yu, L., Wang, A., Li, J., and Li, R., Generation of Terawatt-Scale Vortex Pulses Based on Optical Parametric Chirped-Pulse Amplification; *JPHOT June 2020 1502608*
Pan, W., see Lu, X., *JPHOT June 2020 5500911*
Pan, W., see Feng, X., *JPHOT Oct. 2020 5502208*
Pan, X., see Zhang, J., *JPHOT April 2020 7902011*

Pan, X., see Jiang, Z., *JPHOT Dec. 2020 6901712*
Pan, Z., see Chen, H., *JPHOT June 2020 1502413*
Pang, S., see Liu, C., *JPHOT Oct. 2020 8400312*
Pang, X., Liu, W., and Miao, W., Generation of Spiral Spin Density Vectors With A Circularly Polarized, Vortex Beam; *JPHOT April 2020 6500514*
Pang, X., see Miao, W., *JPHOT April 2020 6500709*
Park, H., see Lim, G., *JPHOT Feb. 2020 7200208*
Park, K., see Lei, H., *JPHOT April 2020 7901915*
Parriaux, O., see Koussi, E.K., *JPHOT April 2020 2700111*
Pawlikowski, W., Barmaki, A., Narimani, M., and Hranilovic, S., Light-Emitting Commutating Diodes for Optical Wireless Communications Within LED Drivers; *JPHOT Oct. 2020 7905111*
Pei, L., see Wang, C., *JPHOT Dec. 2020 5502411*
Pelizzo, M.G., see Zhao, Z., *JPHOT Dec. 2020 4502011*
Peng, C., see Zhang, H., *JPHOT April 2020 6600210*
Peng, C., see Lv, J., *JPHOT Oct. 2020 4501610*
Peng, G., see Di, Z., *JPHOT April 2020 7101308*
Peng, G., see Guo, J., *JPHOT April 2020 1502009*
Peng, J., see Hou, S., *JPHOT April 2020 1501408*
Peng, L., Jiang, N., Zhou, H., and Li, H., RF Interferometry Measurement of Beat Length in Polarization-Maintaining Fiber; *JPHOT April 2020 5500608*
Peng, P., see Shiu, R., *JPHOT June 2020 7902908*
Peng, Q., see Liu, Z., *JPHOT Aug. 2020 0600112*
Peng, W., see Wang, Y., *JPHOT June 2020 1502815*
Peng, Y., see Wang, Y., *JPHOT June 2020 6801711*
Peng, Y., see Qian, J., *JPHOT June 2020 3200306*
Peng, Z., Guo, W., Wu, T., Guo, Z., Lu, Y., Zheng, Y., Lin, Y., and Chen, Z., Temperature-Dependent Carrier Recombination and Efficiency Droop of AlGaIn Deep Ultraviolet Light-Emitting Diodes; *JPHOT Feb. 2020 8200108*
Peng, Z., see Shen, X., *JPHOT June 2020 6500609*
Perez-Jimenez, R., see Li, X., *JPHOT April 2020 7901014*
Perez-Serrano, A., see Quirce, A., *JPHOT Aug. 2020 1503314*
Pesquera, L., see Quirce, A., *JPHOT Aug. 2020 1503314*
Pham, A.T., see Younus, O.I., *JPHOT June 2020 7902814*
Pham, T.S., see Giang, D.T., *JPHOT April 2020 7100810*
Phelan, R., see Zhou, Z., *JPHOT April 2020 7200712*
Piao, D., O'Hara, J., Bukkapatnam, S., and Ekin, S., Towards Non-Contact Glucose Sensing in Aqueous Turbid Medium at $\square 1.1$ Meters Distance; *JPHOT Aug. 2020 3700523*
Piao, Y., see Kwon, K., *JPHOT Aug. 2020 3900714*
Picin, O.J., Reyes Gomez, F., Reyes-Gomez, E., Oliveira, O.N., and Mejia-Salazar, J.R., Quasiperiodic Dielectric Gratings for Multiband Fiber-To-Chip Couplers; *JPHOT Oct. 2020 7103010*
Pierce, I., see Sankoh, A., *JPHOT Oct. 2020 7905311*
Placzek, F., see Andrade, J.R.C., *JPHOT April 2020 1500609*
Plant, J.J., see Kharas, D., *JPHOT Dec. 2020 1504612*
Plettemeier, D., see Keshavarz, H., *JPHOT Aug. 2020 5501816*
Porfirev, A.P., see Kotlyar, V.V., *JPHOT Oct. 2020 4501713*
Powell, K., see Yang, W., *JPHOT April 2020 6801409*
Priye, V., see Ghosh, C., *JPHOT Feb. 2020 6800407*
Pu, M., see Li, Y., *JPHOT April 2020 4600410*
Pu, T., see Chen, Y., *JPHOT Aug. 2020 7904114*
Pu, T., see Meng, X., *JPHOT Dec. 2020 5502909*
Pu, X., see Liu, H., *JPHOT Aug. 2020 7903712*
Purwita, A.A., see Arvanitakis, G.N., *JPHOT April 2020 7901210*
Pyo, J., see Ryu, H., *JPHOT April 2020 1600110*

Q

Qaraqe, K., see Boluda-Ruiz, R., *JPHOT Aug. 2020 7903313*
Qaraqe, K., see Boluda-Ruiz, R., *JPHOT Aug. 2020 7904414*
Qasymeh, M., and Eleuch, H., Entanglement of Microwave and Optical Fields Using Electrical Capacitor Loaded With Plasmonic Graphene Waveguide; *JPHOT April 2020 7500212*
Qi, B., see Wei, W., *JPHOT April 2020 3900414*
Qi, H., see Guo, J., *JPHOT April 2020 1502009*
Qi, H., see Sang, T., *JPHOT April 2020 4500111*

Qi, J., see Chu, H., *JPHOT Oct. 2020 4601312*
Qi, W., see Yuan, B., *JPHOT Dec. 2020 3030669*
Qian, C., see Fan, J., *JPHOT Feb. 2020 8200218*
Qian, J., Ding, Y., Song, L., Liu, Z., Bai, Y., Wang, P., Shao, B., Li, Y., Peng, Y., Tian, Y., Leng, Y., and Li, R., Near-Infrared Supercontinuum and Ultrashort Pulses Generated Based on Phase-Mismatched Cascaded Frequency Conversion in DSTMS Crystal; *JPHOT June 2020 3200306*
Qian, N., Yu, L., Chen, J., and Zou, W., Influence of the Demultiplexer on Channel-Interleaved Photonic Analog-to-Digital Converters; *JPHOT Oct. 2020 5502110*
Qian, Z., see Gong, L., *JPHOT Feb. 2020 1500306*
Qin, H., Cui, Y., Wu, Z., Chen, Q., and Xing, D., Real-Time Thermoacoustic Imaging-Guidance for Breast Tumor Resection; *JPHOT June 2020 3700207*
Qin, J., see Zhong, J., *JPHOT April 2020 7901110*
Qin, L., see Zhang, L., *JPHOT Aug. 2020 6601208*
Qin, Q., see Liu, Y., *JPHOT Aug. 2020 7102311*
Qin, Q., see Guo, Y., *JPHOT April 2020 7100610*
Qin, Y., see Li, X., *JPHOT June 2020 4900208*
Qin, Z., see Gao, F., *JPHOT April 2020 1400109*
Qiu, J., see Chu, H., *JPHOT Oct. 2020 4601312*
Qiu, K., see Zhang, X., *JPHOT June 2020 7903113*
Qiu, Z., see Lin, S., *JPHOT Oct. 2020 1503509*
Qiu, Z.Y., see Shen, Z., *JPHOT Aug. 2020 4601010*
Qu, R., see Gu, J., *JPHOT Dec. 2020 7103612*
Qu, W., see Deng, D., *JPHOT June 2020 6901409*
Qu, W., see Deng, H., *JPHOT June 2020 5900213*
Qu, Z., see Li, Y., *JPHOT Feb. 2020 6800308*
Quirce, A., Rosado, A., Diez, J., Valle, A., Perez-Serrano, A., Tijero, J.G., Pesquera, L., and Esquivias, I., Nonlinear Dynamics Induced by Optical Injection in Optical Frequency Combs Generated by Gain-Switching of Laser Diodes; *JPHOT Aug. 2020 1503314*
Qureshi, K.K., see Alkhazraji, E., *JPHOT June 2020 6601010*
Qureshi, K.K., see Khan, M.Z.M., *JPHOT Oct. 2020 1504211*
Qyyum, A., see Liu, F., *JPHOT April 2020 1500910*

R

Raad, R., see Miglani, R., *JPHOT Aug. 2020 7904621*
Rad, M., see Hasan, M., *JPHOT Oct. 2020 6802617*
Ragheb, A., see Esmail, M.A., *JPHOT Dec. 2020 7202510*
Ragheb, A.M., see Alkhazraji, E., *JPHOT June 2020 6601010*
Ragheb, A.M., see Khan, M.Z.M., *JPHOT Oct. 2020 1504211*
Raghunathan, V., see Ahmad, F., *JPHOT Aug. 2020 7904512*
Rahaim, M., see Shao, S., *JPHOT Feb. 2020 7900615*
Rahim, A.A., see Bilal, R.M.H., *JPHOT June 2020 4500913*
Rahman, A.M., see Zubair, H., *JPHOT June 2020 6801525*
Rahman, S.U., Ullah, H., Sajjad, M., Khan, M.I., and Cao, Q., Comment on "Design and Characterization of an Ultrabroadband Metamaterial Microwave Absorber" *JPHOT April 2020 4600204*
Ram, S.B., see Ebadi, S.M., *JPHOT June 2020 4800309*
Ramachandrapura, S., see Ahmad, F., *JPHOT Aug. 2020 7904512*
Ramarao, V., see Haldar, A., *JPHOT Oct. 2020 2700210*
Rarity, J., see Arbul, E., *JPHOT April 2020 7500114*
Razzak, S.M.A., see Hossain, M.S., *JPHOT June 2020 7202109*
Reed, G.T., see Yu, X., *JPHOT Oct. 2020 2200708*
Ren, G., see Liu, Z., *JPHOT Aug. 2020 0600112*
Ren, G., see Wei, W., *JPHOT April 2020 3900414*
Ren, G., see Wang, C., *JPHOT Dec. 2020 5502411*
Ren, J., see Han, S., *JPHOT June 2020 7201510*
Ren, Q., see Mao, X., *JPHOT Oct. 2020 5900408*
Ren, Y., Xie, Z., Luo, Y., Xu, S., Ma, H., and Tan, Y., Non-Line-of-Sight Location With Gauss Filtering Algorithm Based on a Model of Photon Flight; *JPHOT June 2020 7000615*
Ren, Z., see Chen, Y., *JPHOT Oct. 2020 6802513*
Renna, M., Ruggeri, A., Sanzaro, M., Villa, F., Zappa, F., and Tosi, A., High Detection Rate Fast-Gated CMOS Single-Photon Avalanche Diode Module; *JPHOT Oct. 2020 6802312*

Reyes Gomez, F., see Picin, O.J., *JPHOT Oct. 2020 7103010*
Reyes-Gomez, E., see Picin, O.J., *JPHOT Oct. 2020 7103010*
Reynaud, S., see Koussi, E.K., *JPHOT April 2020 2700111*
Rico-Pinazo, P., see Boluda-Ruiz, R., *JPHOT Aug. 2020 7904414*
Rizvi, S., see Wang, Y., *JPHOT June 2020 6100813*
Rizvi, S., see Hao, Q., *JPHOT Oct. 2020 3800110*
Rocco, D., Gigli, C., Carletti, L., Marino, G., Vincenti, M.A., Leo, G., and De Angelis, C., Vertical Second Harmonic Generation in Asymmetric Dielectric Nanoantennas; *JPHOT June 2020 4500507*
Rocco, D., Midrio, M., and De Angelis, C., Polarization Independent Unidirectional Scattering With Turnstile Nanoantennas; *JPHOT Dec. 2020 4501908*
Rodriguez-Esquerre, V.F., see Franca-Vieira, L., *JPHOT Aug. 2020 4501409*
Rong, L., see Wang, Y., *JPHOT Aug. 2020 5501710*
Rong, Q., see Liu, X., *JPHOT June 2020 6901011*
Rosado, A., see Quirce, A., *JPHOT Aug. 2020 1503314*
Rottwitt, K., see Wang, J., *JPHOT Aug. 2020 6601408*
Ruan, K., see Huang, H., *JPHOT June 2020 1503008*
Ruan, S., see Wei, R., *JPHOT April 2020 3200208*
Rubio-Mercedes, C.E., see Franca-Vieira, L., *JPHOT Aug. 2020 4501409*
Ruggeri, A., see Renna, M., *JPHOT Oct. 2020 6802312*
Ryu, H., Pyo, J., and Ryu, H.Y., Light Extraction Efficiency of GaN-Based Micro-Scale Light-Emitting Diodes Investigated Using Finite-Difference Time-Domain Simulation; *JPHOT April 2020 1600110*
Ryu, H.Y., see Ryu, H., *JPHOT April 2020 1600110*

S

Sadot, D., see Faig, H., *JPHOT Feb. 2020 7200310*
Sait, M., see Kong, M., *JPHOT Aug. 2020 7904713*
Sait, M., see Guo, Y., *JPHOT Dec. 2020 7906413*
Saito, S., see Yu, X., *JPHOT Oct. 2020 2200708*
Sajjad, M., see Rahman, S.U., *JPHOT April 2020 4600204*
Sang, T., Yin, X., Qi, H., Gao, J., Niu, X., and Jiao, H., Resonant Excitation Analysis on Asymmetrical Lateral Leakage of Light in Finite Zero-Contrast Grating Mirror; *JPHOT April 2020 4500111*
Sanjari, P., and Aflatouni, F., Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator; *JPHOT Dec. 2020 6602409*
Sankoh, A., Jin, W., Zhong, Z., He, J., Hong, Y., Giddings, R.P., Pierce, I., O'Sullivan, M., Lee, J., Durrant, T., and Tang, J., Hybrid OFDM-Digital Filter Multiple Access PONs Utilizing Spectrally Overlapped Digital Orthogonal Filtering; *JPHOT Oct. 2020 7905311*
Sanzaro, M., see Renna, M., *JPHOT Oct. 2020 6802312*
Schild, S., see Andrade, J.R.C., *JPHOT April 2020 1500609*
Scholz, U., see Yezpez, P.A.K., *JPHOT April 2020 6800813*
Seleem, H., see Esmail, M.A., *JPHOT Dec. 2020 7202510*
Seminara, M., Nawaz, T., Caputo, S., Mucchi, L., and Catani, J., Characterization of Field of View in Visible Light Communication Systems for Intelligent Transportation Systems; *JPHOT Aug. 2020 7903816*
Semjonov, S.L., see Niang, A., *JPHOT April 2020 6500308*
Senatorov, A., see Krylov, A., *JPHOT April 2020 7100515*
Seong, D., see Wijesinghe, R.E., *JPHOT Aug. 2020 3700611*
Serna, S., see Zhang, W., *JPHOT Feb. 2020 2200108*
Shahjalal, M., see Ahmed, M.F., *JPHOT Oct. 2020 7905011*
Shan, F., see Yu, J., *JPHOT Feb. 2020 7900808*
Shan, K., see Yang, C., *JPHOT Dec. 2020 7905913*
Shang, L., see Deng, H., *JPHOT June 2020 5900213*
Shao, B., see Qian, J., *JPHOT June 2020 3200306*
Shao, G., see Shiu, R., *JPHOT June 2020 7902908*
Shao, H., see Chu, C., *JPHOT June 2020 1600207*
Shao, K., see Zhang, Y., *JPHOT April 2020 7800409*
shao, L., see Bandyopadhyay, S., *JPHOT Feb. 2020 7100313*
Shao, L., see Shen, X., *JPHOT June 2020 6500609*
Shao, M., see Wang, J., *JPHOT Aug. 2020 6802114*
Shao, S., Liu, G., Khreishah, A., Ayyash, M., Elgala, H., Little, T.D.C., and Rahaim, M., Optimizing Handover Parameters by Q-Learning for Heterogeneous Radio-Optical Networks; *JPHOT Feb. 2020 7900615*
Shao, W., see Meng, X., *JPHOT Dec. 2020 5502909*

- Shekhar, S.**, see Ma, M., *JPHOT Aug. 2020 4900411*
- Shen, C.**, see Tang, J., *JPHOT April 2020 1501107*
- Shen, C.**, see Mukhtar, S., *JPHOT April 2020 1502110*
- Shen, D.**, see Tang, J., *JPHOT April 2020 1501107*
- Shen, F.**, see Wang, W., *JPHOT Aug. 2020 4501108*
- Shen, H.**, see Xin, Y., *JPHOT Dec. 2020 7103209*
- Shen, J.**, Wang, W., and Zhang, S., Amplification Characteristics of a Coumarin 460-Based Tunable Amplifier; *JPHOT April 2020 1501908*
- Shen, J.**, see Wu, Z., *JPHOT Dec. 2020 5502313*
- Shen, P.**, see Chen, P., *JPHOT Aug. 2020 7000711*
- Shen, S.**, see Tsai, Y., *JPHOT Dec. 2020 2400409*
- Shen, T.**, see Meng, Y., *JPHOT Aug. 2020 7904211*
- Shen, T.**, see Liang, H., *JPHOT June 2020 7201811*
- Shen, X.**, Chen, H., Shi, W., and Xiong, Q., Electrical and Thermal Effects of Tunable LED Systems on Lighting and Non-Visual Biological Characteristics; *JPHOT June 2020 8200313*
- Shen, X.**, Gu, G., Shao, L., Peng, Z., Hu, J., Bandyopadhyay, S., Liu, Y., Jiang, J., and Chen, M., Twin Photonic Hooks Generated by Twin-Ellipse Microcylinder; *JPHOT June 2020 6500609*
- Shen, Y.**, see Shen, Z., *JPHOT Aug. 2020 4600810*
- Shen, Z.**, Wang, Z., Liu, H., and Shen, Y., Optical Trapping and Separation of Metal Nanoparticles by Cylindrical Metalenses With Phase Gradients; *JPHOT Aug. 2020 4600810*
- Shen, Z.**, see He, Q., *JPHOT Aug. 2020 5501910*
- Shen, Z.**, Li, R., Xue, Y.Z., Qiu, Z.Y., Xiang, Z.Y., Zhou, J.Y., and Zhang, B.F., Generation of Optical Vortices With Polarization-Insensitive Metasurfaces; *JPHOT Aug. 2020 4601010*
- Shen, Z.**, see Zhang, B., *JPHOT Dec. 2020 2201008*
- Sheng, A.**, Xi, C., Yang, Z., Jiang, X., and He, G., Quadratic Soliton Combs in Doubly Resonant Dispersive Optical Parametric Oscillators; *JPHOT April 2020 6100607*
- Sheng, Q.**, see Zhu, Y., *JPHOT Aug. 2020 7102408*
- Sheng, X.**, see Nazempour, R., *JPHOT Dec. 2020 4200107*
- Shi, B.**, see Guo, P., *JPHOT Oct. 2020 6602009*
- Shi, F.**, Wang, S., Zhu, Y., and He, H., Excitation of mitochondria-Endoplasmic reticulum Ca²⁺ coupling by femtosecond-Laser photostimulation; *JPHOT Aug. 2020 3700308*
- Shi, F.**, see Huang, H., *JPHOT June 2020 1503008*
- Shi, F.**, Wang, S., Zhu, Y., and He, H., Corrections to “Excitation of Mitochondria-Endoplasmic Reticulum Ca²⁺ Coupling by Femtosecond-Laser Photostimulation” [Aug 20 Art. no. 3700308]; *JPHOT Oct. 2020 9700201*
- Shi, G.**, see Chen, Y., *JPHOT April 2020 3700109*
- Shi, J.**, see Li, Y., *JPHOT April 2020 7201111*
- Shi, J.**, see Li, Y., *JPHOT April 2020 4600410*
- Shi, J.**, see Chen, H., *JPHOT June 2020 7902510*
- Shi, J.**, see Xiao, Y., *JPHOT June 2020 7201215*
- Shi, J.**, see Yuan, B., *JPHOT Dec. 2020 3030669*
- Shi, J.**, see Lv, W., *JPHOT Dec. 2020 3901113*
- Shi, L.**, see Yang, Y., *JPHOT Aug. 2020 7800912*
- Shi, T.**, Guan, X., Chang, P., Miao, J., Pan, D., Luo, B., Guo, H., and Chen, J., A Dual-Frequency Faraday Laser; *JPHOT Aug. 2020 1503211*
- Shi, W.**, see Shen, X., *JPHOT June 2020 8200313*
- Shi, Y.**, Tu, Y., Wang, L., Zhang, Y., and Gao, X., Influence of Display Luminance on Visual Discomfort in Dark Ambient Based on Haemodynamic Response; *JPHOT Aug. 2020 7000814*
- Shi, Y.**, see Yuan, B., *JPHOT Dec. 2020 3030669*
- Shi-Hui, Z.**, see Xiao-Xue, J., *JPHOT Dec. 2020 6803414*
- Shih, H.**, see Tsai, Y., *JPHOT Dec. 2020 2400409*
- Shin, W.**, see Hong, Y., *JPHOT Aug. 2020 7903510*
- Shiu, R.**, Chen, Y., Peng, P., Su, S., Shao, G., Chiu, J., Li, J., and Chang, G., A Simplified Radio-Over-Fiber System for Over 100-km Long-Reach n-QAM Transmission; *JPHOT June 2020 7902908*
- Shoman, H.**, see Ma, M., *JPHOT Aug. 2020 4900411*
- Shu, X.**, see Du, Y., *JPHOT April 2020 3200112*
- Shuaib, A.**, Bourisly, A.K., and Alazmi, E., Fluence as a Function of Weight: A Photobiomodulation Therapy (PBMT) Spinal Cord Injury (SCI) Rat Model—A Computational Study; *JPHOT Dec. 2020 3700808*
- Shui, L.**, see Chen, Y., *JPHOT Oct. 2020 7103109*
- Shui, T.**, see Li, L., *JPHOT June 2020 4500708*
- Shum, P.P.**, see Xia, R., *JPHOT April 2020 1501310*
- Shum, P.P.**, see Pan, J., *JPHOT April 2020 6800912*
- Si-Ma, L.**, Zhu, Z., and Yu, H., Model-Aware End-to-End Learning for SISO Optical Wireless Communication Over Poisson Channel; *JPHOT Dec. 2020 7907115*
- Singh, N.**, see Zhou, Y., *JPHOT June 2020 4500414*
- Sisnando, A.D.**, see Franca-Vieira, L., *JPHOT Aug. 2020 4501409*
- Slavik, R.**, see Bohata, J., *JPHOT June 2020 5501414*
- Smietana, M.**, see Bandyopadhyay, S., *JPHOT Feb. 2020 7100313*
- Sobhanan, A.**, Venkatasubramani, L.N., Koilpillai, R.D., and Venkitesh, D., Dispersion and Nonlinearity Distortion Compensation of the QPSK/16QAM Signals Using Optical Phase Conjugation in Nonlinear SOAs; *JPHOT Feb. 2020 7800107*
- Son, G.**, see Choi, J., *JPHOT Oct. 2020 7102910*
- Song, C.**, see He, J., *JPHOT June 2020 7800712*
- Song, D.**, see Wang, W., *JPHOT June 2020 6901210*
- Song, H.**, see Guan, W., *JPHOT April 2020 7901716*
- Song, J.**, see Zhang, L., *JPHOT Aug. 2020 6601208*
- Song, J.**, see Zhu, H., *JPHOT Feb. 2020 6800214*
- Song, J.**, see Zheng, D., *JPHOT Feb. 2020 7900708*
- Song, J.**, see Huang, X., *JPHOT April 2020 7901512*
- Song, J.**, see Zheng, D., *JPHOT Oct. 2020 7905807*
- Song, L.**, see Qian, J., *JPHOT June 2020 3200306*
- Song, N.**, Zhu, Y., Xu, X., Xu, S., and Gao, F., Experimental Study of Hollow-Core Photonic Crystal Fiber Optical Switching Effect in Liquid Nitrogen Environment; *JPHOT June 2020 7101806*
- Song, S.**, see Yang, W., *JPHOT April 2020 6801409*
- Song, S.**, Jia, Z., Yang, J., and Kasabov, N.K., A Fast Image Segmentation Algorithm Based on Saliency Map and Neutrosophic Set Theory; *JPHOT Oct. 2020 3901016*
- Song, T.**, see Liu, B., *JPHOT Oct. 2020 3900817*
- Song, X.**, see Wang, D., *JPHOT June 2020 7600307*
- Song, Y.**, see Yu, X., *JPHOT Aug. 2020 7904011*
- Song, Y.**, see Nie, Y., *JPHOT April 2020 5300107*
- Song, Y.**, see Li, M., *JPHOT Dec. 2020 6803508*
- Song, Y.**, see Cui, Y., *JPHOT Dec. 2020 1504413*
- Song, Z.**, see Zhang, M., *JPHOT Feb. 2020 4600109*
- Song, Z.**, see Guo, J., *JPHOT April 2020 1502009*
- Soref, R.**, see Ying, Z., *JPHOT Dec. 2020 7801311*
- Sorger, V.J.**, see Alkabani, Y., *JPHOT April 2020 6600114*
- Souza, M.C.M.M.**, see Moras, A.L., *JPHOT Oct. 2020 6802910*
- Spacil, J.**, see Bohata, J., *JPHOT June 2020 5501414*
- Spacil, J.**, see Nguyen, D., *JPHOT Dec. 2020 5502814*
- Stafeev, S.S.**, see Kotlyar, V.V., *JPHOT Oct. 2020 4501713*
- Stevens, N.**, see Nguyen, D., *JPHOT Dec. 2020 5502814*
- Strasser, G.**, see Wenclawiak, M., *JPHOT Oct. 2020 5900608*
- Sturniolo, A.**, see Cossu, G., *JPHOT Dec. 2020 7906313*
- Su, J.**, see Tang, B., *JPHOT June 2020 4500209*
- Su, S.**, see Shiu, R., *JPHOT June 2020 7902908*
- Su, X.**, Han, X., Fu, S., Wang, S., Li, C., Tan, Q., Zhu, G., Wang, C., Wu, Z., Gu, Y., and Zhao, M., Optical Multipath RF Self-Interference Cancellation Based on Phase Modulation for Full-Duplex Communication; *JPHOT Aug. 2020 7102114*
- Su, X.**, see Wu, Z., *JPHOT Dec. 2020 5502313*
- Sudmeyer, T.**, see Andrade, J.R.C., *JPHOT April 2020 1500609*
- Sui, X.**, see Zhou, S., *JPHOT June 2020 6901311*
- Sultanov, A.K.**, see Lyubopytov, V.S., *JPHOT Feb. 2020 6100117*
- Sun, B.**, see Zhang, L., *JPHOT Aug. 2020 5501611*
- Sun, B.**, see Zhao, L., *JPHOT Feb. 2020 1500107*
- Sun, B.**, see Xu, Q., *JPHOT April 2020 6900807*
- Sun, B.**, Ding, X., Jiang, P., Bai, Y., Yu, X., Liu, Y., Wang, J., Zhao, L., Li, T., Jiang, G., Lei, P., Wu, L., Zhang, G., and Yao, J., 13.7-W 588-nm Yellow Laser Generation by Frequency Doubling of 885-nm Side-Pumped Nd:YAG-YVO₄ Intracavity Raman Laser; *JPHOT April 2020 1501607*

- Sun, B.**, Ding, X., Bai, Y., Yu, X., Liu, Y., Wang, J., Zhao, L., Li, T., Jiang, G., Lei, P., Wu, L., Zhang, G., and Yao, J., High-Power High-Repetition-Rate Tunable Yellow Light Generation by an Intracavity-Frequency-Doubled Singly Resonant Optical Parametric Oscillator; *JPHOT June 2020 1502310*
- Sun, C.**, see Teng, T., *JPHOT Feb. 2020 7000116*
- Sun, C.**, see Xu, Q., *JPHOT April 2020 6900807*
- Sun, C.**, see Yu, Y., *JPHOT Oct. 2020 6501012*
- Sun, J.**, Xu, B., Sun, W., Zhu, S., and Zhu, N., The Effect of Bias and Frequency on Amplitude to Phase Conversion of Photodiodes; *JPHOT Aug. 2020 5502010*
- Sun, J.**, see Wang, W., *JPHOT Aug. 2020 4501108*
- Sun, J.**, see Wang, K., *JPHOT Aug. 2020 4501211*
- Sun, M.**, see Wang, X., *JPHOT Dec. 2020 3200510*
- Sun, M.**, see Zhang, B., *JPHOT Dec. 2020 2201008*
- Sun, Q.**, see Min, C., *JPHOT April 2020 7500310*
- Sun, S.**, see Lian, T., *JPHOT Aug. 2020 6601610*
- Sun, T.**, Tu, J., Cao, L., Fu, T., Li, Q., Zhang, F., Xiao, G., Chen, Y., Li, H., Liu, X., Yu, Z., Li, Y., and Zhao, W., Sidewall Profile Dependent Nanostructured Ultrathin Solar Cells With Enhanced Light Trapping Capabilities; *JPHOT Feb. 2020 8400112*
- Sun, W.**, see Sun, J., *JPHOT Aug. 2020 5502010*
- Sun, W.**, Zhu, S., Li, W., Chen, W., and Zhu, N., Noise Suppression of Distributed Acoustic Sensing Based on f_x Deconvolution and Wavelet Transform; *JPHOT Feb. 2020 7800208*
- Sun, W.**, see Hou, F., *JPHOT Oct. 2020 6802709*
- Sun, X.**, see Zhu, Z., *JPHOT Aug. 2020 6500917*
- Sun, X.**, see Kong, M., *JPHOT Aug. 2020 7904713*
- Sun, X.**, An, Z., and Lu, W., Circular Airy Beam Based on Bandpass Filter; *JPHOT Feb. 2020 6100508*
- Sun, X.**, see Xu, Z., *JPHOT April 2020 4900110*
- Sun, X.**, see Zhou, P., *JPHOT Oct. 2020 6901613*
- Sun, X.**, see Yu, Y., *JPHOT Dec. 2020 2200807*
- Sun, X.**, see Guo, Y., *JPHOT Dec. 2020 7906413*
- Sun, X.W.**, see Mei, G., *JPHOT Dec. 2020 1600314*
- Sun, Y.**, Wu, G., Wang, S., Cheng, W., and Chen, J., An Optical Pulse Shaping Scheme for Simultaneous Photonic Filtering and Digitizing Systems; *JPHOT Feb. 2020 5500509*
- Sun, Y.**, see Wang, Y., *JPHOT June 2020 1502815*
- Sun, Y.**, Zhang, H., Wang, C., Li, Z., and Wang, X., Networked Chaotic Map Model and Its Applications in Color Multiple Image Encryption; *JPHOT Oct. 2020 7801218*
- Sun, Z.**, see Wei, R., *JPHOT April 2020 3200208*
- Sun, Z.**, see Fu, C., *JPHOT April 2020 4600511*
- Suo, Y.**, see Guo, Y., *JPHOT April 2020 7100610*
- Swint, R.B.**, see Kharas, D., *JPHOT Dec. 2020 1504612*

T

- Tajalli, A.**, see Andrade, J.R.C., *JPHOT April 2020 1500609*
- Takagi, S.**, see Ho, C.P., *JPHOT April 2020 6600307*
- Takaki, Y.**, and Watanabe, M., Optical Multi-Context Blind Scrubbing for Field Programmable Gate Arrays; *JPHOT Dec. 2020 7801411*
- Takenaka, M.**, see Ho, C.P., *JPHOT April 2020 6600307*
- Tan, Q.**, see Su, X., *JPHOT Aug. 2020 7102114*
- Tan, Q.**, Yang, A., Guo, P., and Zhao Zhao, Blind Frequency Offset Estimation Based on Phase Rotation For Coherent Transceiver; *JPHOT April 2020 7902212*
- Tan, Y.**, see Ren, Y., *JPHOT June 2020 7000615*
- Tan, Z.**, see Liu, Y., *JPHOT Aug. 2020 7102311*
- Tan, Z.**, see Guan, W., *JPHOT April 2020 7901716*
- Tan, Z.**, see Gao, Y., *JPHOT June 2020 7903011*
- Tancock, S.**, see Arabul, E., *JPHOT April 2020 7500114*
- Tang, B.**, Yang, N., Huang, L., Su, J., and Jiang, C., Tunable Anisotropic Perfect Enhancement Absorption in Black Phosphorus-Based Metasurfaces; *JPHOT June 2020 4500209*
- Tang, C.**, see Wang, Y., *JPHOT June 2020 1502815*
- Tang, D.**, see Xia, R., *JPHOT April 2020 1501310*
- Tang, J.**, see Li, C., *JPHOT Aug. 2020 7202211*
- Tang, J.**, Li, E., Wang, F., Yao, W., Shen, C., and Shen, D., High Power Ho:YAP Laser With 107 W of Output Power at 2117 nm; *JPHOT April 2020 1501107*
- Tang, J.**, see Sankoh, A., *JPHOT Oct. 2020 7905311*
- Tang, J.**, see He, Y., *JPHOT Dec. 2020 6101209*
- Tang, L.**, see Zhang, Z., *JPHOT June 2020 7101908*
- Tang, M.**, see Jin, Y., *JPHOT April 2020 7200913*
- Tang, M.**, see Hao, Q., *JPHOT Oct. 2020 3800110*
- Tang, X.**, see Li, Y., *JPHOT April 2020 7201111*
- Tang, X.**, see Xia, R., *JPHOT April 2020 1501310*
- Tanida, J.**, see Inoue, J., *JPHOT April 2020 6500112*
- Tao, M.**, see Zhang, L., *JPHOT Aug. 2020 6601208*
- Tao, T.**, see Xu, F., *JPHOT Feb. 2020 2500107*
- Tao, X.**, Hao, H., Li, X., Chen, S., Wang, L., Tu, X., Jia, X., Zhang, L., Zhao, Q., Kang, L., and Wu, P., Characterize the Speed of a Photon-Number-Resolving Superconducting Nanowire Detector; *JPHOT Aug. 2020 4501308*
- Tao, X.**, see Ning, Y., *JPHOT Feb. 2020 6900316*
- Tareq, Q.**, see Alkharaji, E., *JPHOT June 2020 6601010*
- Tareq, Q.**, see Khan, M.Z.M., *JPHOT Oct. 2020 1504211*
- Teng, C.**, see Lu, X., *JPHOT June 2020 5500911*
- Teng, C.**, see Chen, M., *JPHOT June 2020 4500609*
- Teng, L.**, see Jiang, T., *JPHOT Aug. 2020 7102607*
- Teng, T.**, and Sun, C., Integrating Backlight With Color-Filter-Free Panel for Enhancing Performance of LCD; *JPHOT Feb. 2020 7000116*
- Thirupakuzi Vangipuram, V.**, see Hartensveld, M., *JPHOT Dec. 2020 8200906*
- Tian, F.**, see Memon, K.A., *JPHOT Feb. 2020 7200408*
- Tian, F.**, see Xue, Y., *JPHOT Oct. 2020 1503710*
- Tian, J.**, see Liu, S., *JPHOT Feb. 2020 6900411*
- Tian, J.**, see Cui, Y., *JPHOT Dec. 2020 1504413*
- Tian, K.**, see Chu, C., *JPHOT June 2020 1600207*
- Tian, P.**, see Chen, H., *JPHOT June 2020 7902510*
- Tian, S.**, Guo, H., Hu, J., and Zhuang, S., Nanoscale Noncoplanar Beam Splitters With Tunable Split Ratio; *JPHOT April 2020 4600309*
- Tian, X.**, see Yang, W., *JPHOT April 2020 6801409*
- Tian, Y.**, see Chen, H., *JPHOT June 2020 1502413*
- Tian, Y.**, see Qian, J., *JPHOT June 2020 3200306*
- Tian, Y.**, Ding, Z., Feng, H., Zhu, R., Chen, Y., Xu, F., and Lu, Y., Single-Pixel Imaging Based on Optical Fibers; *JPHOT Dec. 2020 7103507*
- Tian, Z.**, see Hu, M., *JPHOT Aug. 2020 5900309*
- Tian, Z.**, see Lv, B., *JPHOT Oct. 2020 4601410*
- Tien, T.Q.**, see Giang, D.T., *JPHOT April 2020 7100810*
- Tijero, J.G.**, see Quirce, A., *JPHOT Aug. 2020 1503314*
- Tokgoz, S.C.**, see Boluda-Ruiz, R., *JPHOT Aug. 2020 7903313*
- Tonello, A.**, see Niang, A., *JPHOT April 2020 6500308*
- Tong, S.**, see Yu, X., *JPHOT Aug. 2020 7904011*
- Tong, S.**, see Zhang, M., *JPHOT Dec. 2020 7906212*
- Tong, X.**, see Jin, L., *JPHOT April 2020 1500806*
- Torres, J.P.N.**, Machado, V.M., and Baptista, A., A New Hybrid Finite Element Method: Electromagnetic Propagation in Bent Waveguides; *JPHOT Feb. 2020 5500413*
- Tosi, A.**, see Renna, M., *JPHOT Oct. 2020 6802312*
- Tsai, Y.**, Huang, S., Huang, H., Yang, S., Liang, K., Kuo, W., Fang, Y., Wu, C., Wang, S., Shih, H., Xu, Z., Cho, M., Shen, S., and Lin, C., Extended Electrical and Photonic Characterization of GaN-Based Ultra-Violet MicroLEDs With an ITO Emission Window Layer; *JPHOT Dec. 2020 2400409*
- Tsuji, Y.**, see Morimoto, K., *JPHOT Aug. 2020 6601713*
- Tsuji, Y.**, see Iguchi, A., *JPHOT Oct. 2020 6602111*
- Tu, J.**, see Sun, T., *JPHOT Feb. 2020 8400112*
- Tu, J.**, see Chu, C., *JPHOT June 2020 7902409*
- Tu, X.**, see Tao, X., *JPHOT Aug. 2020 4501308*
- Tu, X.**, see Chen, Q., *JPHOT Feb. 2020 6800112*
- Tu, Y.**, see Shi, Y., *JPHOT Aug. 2020 7000814*
- Tu, Y.**, see Zhou, K., *JPHOT Feb. 2020 7100210*
- Tu, Y.**, Cui, S., Zhou, K., and Liu, D., Phase Alignment With Minimum Complexity for Equal Gain Combining in Multi-Aperture Free-Space Digital Coherent Optical Communication Receivers; *JPHOT April 2020 7901410*
- Tu, Y.**, see Zhou, K., *JPHOT Oct. 2020 7905412*

Tu, Z., see Zhang, H., *JPHOT Feb. 2020 5500208*
Tu, Z., see Ma, J., *JPHOT Dec. 2020 5503010*
Tubbal, F., see Miglani, R., *JPHOT Aug. 2020 7904621*
Tung, Y., see Liu, C., *JPHOT April 2020 7200811*

U

Uday, T., Kumar, A., and Natarajan, L., Memory-Based Codes for Uniform Illumination in MIMO VLC; *JPHOT April 2020 7902115*
ul Ain, N., see Memon, K.A., *JPHOT Feb. 2020 7200408*
Ullah, H., see Rahman, S.U., *JPHOT April 2020 4600204*
Unterrainer, K., see Wenclawiak, M., *JPHOT Oct. 2020 5900608*
Ura, S., see Watanabe, A., *JPHOT Dec. 2020 4502108*

V

Vakamulla, V.M., see Vejjandla, K., *JPHOT Feb. 2020 7900412*
Valle, A., see Quirce, A., *JPHOT Aug. 2020 1503314*
Vallejo, L., Komanec, M., Ortega, B., Bohata, J., Nguyen, D., Zvanovec, S., and Almenar, V., Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz; *JPHOT Feb. 2020 5500309*
Valluri, S., see Vejjandla, K., *JPHOT Feb. 2020 7900412*
Veillas, C., see Koussi, E.K., *JPHOT April 2020 2700111*
Vejjandla, K., Valluri, S., Vakamulla, V.M., and Kumar, A., A Tunable Energy Signal for Intensity Modulation and Direct Detection Systems: Theory, Simulations, and Experiments; *JPHOT Feb. 2020 7900412*
Venkatasubramani, L.N., see Sobhanan, A., *JPHOT Feb. 2020 7800107*
Venkatesan, T., see Liu, Y., *JPHOT Oct. 2020 4800810*
Venkitesh, D., see Sobhanan, A., *JPHOT Feb. 2020 7800107*
Verma, G.D., see Ai, Y., *JPHOT Dec. 2020 7906617*
Veronis, G., see You, C., *JPHOT June 2020 4500810*
Verrier, I., see Koussi, E.K., *JPHOT April 2020 2700111*
Villa, F., see Renna, M., *JPHOT Oct. 2020 6802312*
Vincenti, M.A., see Rocco, D., *JPHOT June 2020 4500507*
Vivien, L., see Zhang, W., *JPHOT Feb. 2020 2200108*
Von Zuben, A.A.G., see Moras, A.L., *JPHOT Oct. 2020 6802910*
Voon-Yew Thean, A., see Liu, Y., *JPHOT Oct. 2020 4800810*

W

Wabnitz, S., see Niang, A., *JPHOT April 2020 6500308*
Wan, D., see Liu, Y., *JPHOT Oct. 2020 4800810*
Wan, H., see Yuan, F., *JPHOT Feb. 2020 7100109*
Wang, A., see Pan, W., *JPHOT June 2020 1502608*
Wang, A., see Gao, Z., *JPHOT Oct. 2020 6803115*
Wang, B., see Wu, Z., *JPHOT Dec. 2020 5502313*
Wang, C., see Su, X., *JPHOT Aug. 2020 7102114*
Wang, C., see Bandyopadhyay, S., *JPHOT Feb. 2020 7100313*
Wang, C., see Ji, Y., *JPHOT Feb. 2020 7900510*
Wang, C., Yang, Y., Cheng, J., Guo, C., and Feng, C., A Dimmable OFDM Scheme With Dynamic Subcarrier Activation for VLC; *JPHOT Feb. 2020 7900112*
Wang, C., see Guo, J., *JPHOT April 2020 1502009*
Wang, C., Zhang, X., Jiang, J., Liu, K., Wang, S., Li, Y., and Liu, T., A Demodulation Method of Spatial Domain for Low-Coherence Interferometry With High Accuracy and Adaptability; *JPHOT April 2020 6801111*
Wang, C., see Zhang, J., *JPHOT April 2020 6900914*
Wang, C., see Chen, M., *JPHOT June 2020 4500609*
Wang, C., see Sun, Y., *JPHOT Oct. 2020 7801218*
Wang, C., Ning, T., Li, J., Pei, L., Zheng, J., Ren, G., Wu, B., and Dong, X., Photonic Generation of Triangular-Shaped Waveform With Tunable Symmetry Factor Based on Two Single-Drive Mach-Zehnder Modulator; *JPHOT Dec. 2020 5502411*
Wang, C., see Xiao-Xue, J., *JPHOT Dec. 2020 6803414*
Wang, D., see Lei, S., *JPHOT Aug. 2020 8200509*
Wang, D., see Wang, Y., *JPHOT Aug. 2020 5501710*

Wang, D., Song, X., Zhou, L., and Zhao, Y., Real-Time Phase Tracking Scheme With Mismatched-Basis Data for Phase-Coding Quantum Key Distribution; *JPHOT June 2020 7600307*
Wang, D., see Iroegbu, P.I., *JPHOT Oct. 2020 1503612*
Wang, D., see Ma, X., *JPHOT Oct. 2020 3400217*
Wang, F., Zhang, X., Cui, J., and Huang, J., Evolution of Soliton Rain in a Tm-doped Passive Mode-Locked All-Fiber Laser; *JPHOT Aug. 2020 1503408*
Wang, F., see Jin, H., *JPHOT April 2020 6800711*
Wang, F., see Tang, J., *JPHOT April 2020 1501107*
Wang, F., see Xiong, B., *JPHOT April 2020 7100708*
Wang, F., see Lv, J., *JPHOT June 2020 7800810*
Wang, F., Zhang, X., Cui, J., and Huang, J., Corrections to “Evolution of Soliton Rain in a TM-Doped Passive Mode-Locked All-Fiber Laser” [Aug 20 Art. no. 1503408]; *JPHOT Oct. 2020 9700101*
Wang, F., Zhang, X., Cui, J., and Huang, J., Corrections to “Evolution of Soliton Rain in a Tm-Doped Passive Mode-Locked All-Fiber Laser” [Aug 20 Art. no. 1503408]; *JPHOT Dec. 2020 9700301*
Wang, G., see Zhu, X., *JPHOT Aug. 2020 8200712*
Wang, G., see Bandyopadhyay, S., *JPHOT Feb. 2020 7100313*
Wang, G., see Wang, Z., *JPHOT Oct. 2020 6802412*
Wang, H., You, H., Pan, D., Chen, D., Lu, H., Zhang, R., and Zheng, Y., Polarization Enhanced GaN Avalanche Photodiodes With p-type In_{0.05}Ga_{0.95}N Layer; *JPHOT Feb. 2020 6800606*
Wang, H., see Zhong, Y., *JPHOT June 2020 7201310*
Wang, H., see Han, Z., *JPHOT Oct. 2020 6802815*
Wang, H., see Liang, W., *JPHOT Oct. 2020 7905707*
Wang, H., see Zhang, B., *JPHOT Dec. 2020 2201008*
Wang, J., see Li, C., *JPHOT Aug. 2020 7903912*
Wang, J., Baumann, J.M., Xu, J., Rottwitz, K., and Ding, Y., Stable Excitation of Orbital Angular Momentum States in Air-Core Fiber Seeded by an Integrated Optical Vortex Beam Emitter; *JPHOT Aug. 2020 6601408*
Wang, J., Yang, Y., Shao, M., and Zhou, Y., Three-Dimensional Measurement for Rigid Moving Objects Based on Multi-Fringe Projection; *JPHOT Aug. 2020 6802114*
Wang, J., see Zhao, L., *JPHOT Feb. 2020 1500107*
Wang, J., see Wei, R., *JPHOT April 2020 3200208*
Wang, J., see Chen, Y., *JPHOT April 2020 3700109*
Wang, J., see Zhang, H., *JPHOT April 2020 7101608*
Wang, J., see Li, G., *JPHOT April 2020 1501009*
Wang, J., see Sun, B., *JPHOT April 2020 1501607*
Wang, J., see Zhu, Z., *JPHOT April 2020 7800614*
Wang, J., Chen, P., Dai, D., and Liu, L., Polarization Coupling of X-Cut Thin Film Lithium Niobate Based Waveguides; *JPHOT June 2020 2200310*
Wang, J., see Sun, B., *JPHOT June 2020 1502310*
Wang, J., see Wu, Y., *JPHOT Oct. 2020 7000913*
Wang, J., Wang, Y., Zhang, Z., Zhao, Z., and Liu, J., Optical Self-Interference Cancellation With Frequency Down-Conversion Based on Cascade Modulator; *JPHOT Dec. 2020 5502708*
Wang, K., Sun, J., and Cheng, M., Design of Partially Suspended Silicon Nitride Slot Waveguides for Efficient Forward Stimulated Brillouin Scattering; *JPHOT Aug. 2020 4501211*
Wang, K., see Jin, L., *JPHOT April 2020 1500806*
Wang, K., Zhao, M., Kong, M., and Yu, J., Demonstration of 4 × 100 Gbit/s PAM-4 Transmission Over 40 km in an IM/DD System Based on Narrow Band DMLs; *JPHOT June 2020 7201908*
Wang, K., see Ji, J., *JPHOT June 2020 7903212*
Wang, K., see Mei, G., *JPHOT Dec. 2020 1600314*
Wang, L., see Shi, Y., *JPHOT Aug. 2020 7000814*
Wang, L., see Zhou, Y., *JPHOT Aug. 2020 1503106*
Wang, L., see Tao, X., *JPHOT Aug. 2020 4501308*
Wang, L., see Deng, H., *JPHOT June 2020 7000511*
Wang, L., and Zhao, S., Multiple-Input Single-Output Ghost Imaging; *JPHOT June 2020 6901113*
Wang, L., Yang, Y., Li, S., Deng, L., Hong, W., Zhang, C., Zhu, J., and McGloin, D., Terahertz Reconfigurable Metasurface for Dynamic Non-Diffract-

- tive Orbital Angular Momentum Beams using Vanadium Dioxide; *JPHOT June 2020 4600712*
- Wang, M.**, see Guo, J., *JPHOT Aug. 2020 4800710*
- Wang, M.**, see Liu, Y., *JPHOT Aug. 2020 7102311*
- Wang, M.**, see Wei, R., *JPHOT April 2020 3200208*
- Wang, M.**, see Chen, H., *JPHOT Dec. 2020 7103412*
- Wang, P.**, see Chen, Y., *JPHOT April 2020 2400207*
- Wang, P.**, see Zhang, B., *JPHOT April 2020 6600610*
- Wang, P.**, see Gao, F., *JPHOT April 2020 1400109*
- Wang, P.**, see Feng, J., *JPHOT June 2020 1502908*
- Wang, P.**, see Qian, J., *JPHOT June 2020 3200306*
- Wang, Q.**, see Hu, M., *JPHOT Aug. 2020 5900309*
- Wang, Q.**, see Zhang, B., *JPHOT Feb. 2020 6900208*
- Wang, Q.**, see Deng, H., *JPHOT June 2020 7000511*
- Wang, Q.**, Xia, G., Jiang, Z., Yang, W., Yue, D., and Wu, Z., Experimental Investigations on Polarization Switching and Bistability in a 1550 nm VCSEL Subject to Orthogonal Optical Injection With Time-Varying Injection Power; *JPHOT Oct. 2020 1504108*
- Wang, Q.**, see Lv, W., *JPHOT Dec. 2020 3901113*
- Wang, R.**, see Xue, Y., *JPHOT Oct. 2020 1503710*
- Wang, S.**, see Shi, F., *JPHOT Aug. 2020 3700308*
- Wang, S.**, see Wang, Y., *JPHOT Aug. 2020 7801009*
- Wang, S.**, see Su, X., *JPHOT Aug. 2020 7102114*
- Wang, S.**, see Sun, Y., *JPHOT Feb. 2020 5500509*
- Wang, S.**, see Wang, C., *JPHOT April 2020 6801111*
- Wang, S.**, see Zhang, J., *JPHOT April 2020 6900914*
- Wang, S.**, see Huang, Y., *JPHOT June 2020 7101209*
- Wang, S.**, see Shi, F., *JPHOT Oct. 2020 9700201*
- Wang, S.**, see Tsai, Y., *JPHOT Dec. 2020 2400409*
- Wang, S.**, see Jiang, Z., *JPHOT Dec. 2020 6901712*
- Wang, T.**, see Yu, X., *JPHOT Aug. 2020 7904011*
- Wang, T.**, see Han, L., *JPHOT April 2020 7101508*
- Wang, T.**, see Hou, F., *JPHOT Oct. 2020 6802709*
- Wang, T.**, see Chen, J., *JPHOT Oct. 2020 7905611*
- Wang, T.**, see Bi, W., *JPHOT Dec. 2020 3200608*
- Wang, T.**, see Xiao-Xue, J., *JPHOT Dec. 2020 6803414*
- Wang, W.**, Zhao, Z., Guo, C., Shen, F., Sun, J., and Guo, Z., Irrotational Nanobricks Based High-Efficiency Polarization-Independence Metasurfaces; *JPHOT Aug. 2020 4501108*
- Wang, W.**, see Guo, J., *JPHOT April 2020 1502009*
- Wang, W.**, see Shen, J., *JPHOT April 2020 1501908*
- Wang, W.**, see Gao, F., *JPHOT April 2020 1400109*
- Wang, W.**, Li, Y., Chen, W., Song, D., and Wang, X., Simulation of the Electrostatic Distribution in the Proximity Focusing Structure of an EBCMOS; *JPHOT June 2020 6901210*
- Wang, W.**, see Liu, X., *JPHOT June 2020 6901011*
- Wang, X.**, see Yang, Y., *JPHOT Aug. 2020 7800912*
- Wang, X.**, see Zhu, Z., *JPHOT Aug. 2020 6500917*
- Wang, X.**, see Lian, T., *JPHOT Aug. 2020 6601610*
- Wang, X.**, see Li, K., *JPHOT Feb. 2020 1500409*
- Wang, X.**, see Zhang, B., *JPHOT Feb. 2020 6900208*
- Wang, X.**, see Zhou, P., *JPHOT Feb. 2020 1500212*
- Wang, X.**, see Xu, F., *JPHOT Feb. 2020 2500107*
- Wang, X.**, see Bian, H., *JPHOT April 2020 6801009*
- Wang, X.**, see Zhang, J., *JPHOT April 2020 6900914*
- Wang, X.**, see Zhang, Q., *JPHOT April 2020 6600810*
- Wang, X.**, see Chen, H., *JPHOT June 2020 1502413*
- Wang, X.**, see Wang, W., *JPHOT June 2020 6901210*
- Wang, X.**, see Li, L., *JPHOT June 2020 4500708*
- Wang, X.**, Zhou, L., Lu, L., and Chen, J., Integrated Optical Delay Line Based on a Loopback Arrayed Waveguide Grating for Radio-frequency Filtering; *JPHOT June 2020 6600911*
- Wang, X.**, see Wang, X., *JPHOT June 2020 6600911*
- Wang, X.**, see Lin, Z., *JPHOT June 2020 4600611*
- Wang, X.**, see Han, Z., *JPHOT Oct. 2020 6802815*
- Wang, X.**, see Li, K., *JPHOT Oct. 2020 1503811*
- Wang, X.**, see Sun, Y., *JPHOT Oct. 2020 7801218*
- Wang, X.**, Sun, M., Yang, S., Pan, J., and Li, S., Broadband Dispersion-Managed Dissipative Soliton and Structural Soliton Molecules in a Slight-Normal Dispersion Fiber Laser; *JPHOT Dec. 2020 3200510*
- Wang, X.**, see Chen, H., *JPHOT Dec. 2020 7103412*
- Wang, Y.**, see Zhang, L., *JPHOT Aug. 2020 6601208*
- Wang, Y.**, see Guo, J., *JPHOT Aug. 2020 4800710*
- Wang, Y.**, see Cai, Y., *JPHOT Aug. 2020 7102508*
- Wang, Y.**, Zhang, H., Wang, D., Zhou, T., Yang, F., Zhong, X., Chen, Z., Yang, D., and Rong, L., Dual-Channel Phase-Tunable Down Converter With LO Frequency Doubling; *JPHOT Aug. 2020 5501710*
- Wang, Y.**, Li, W., Mei, M., Feng, Z., Zheng, H., and Chen, Y., Theoretical Analyses of Different Nonlinear Compensation Methods Based on Perturbation Theories in the Unrepeated System With Raman Amplification; *JPHOT Aug. 2020 7903611*
- Wang, Y.**, and Chen, W., Systematic Analysis for fNIRS Measurement Combining Sensitivity and SNR Based on the Colin27 Brain Template; *JPHOT Aug. 2020 3700413*
- Wang, Y.**, Liu, H., Wang, S., and Cai, M., Wide-Range Tunable Narrow Band-Stop Filter Based on Bilayer Graphene in the Mid-Infrared Region; *JPHOT Aug. 2020 7801009*
- Wang, Y.**, see Gong, L., *JPHOT Feb. 2020 1500306*
- Wang, Y.**, see Gong, L., *JPHOT Feb. 2020 1500306*
- Wang, Y.**, see Li, G., *JPHOT April 2020 1501009*
- Wang, Y.**, see Li, G., *JPHOT April 2020 1501009*
- Wang, Y.**, Zhao, C., Zhang, L., Liu, C., and Li, J., High-Efficiency Pulse Width Modulation-Based Wireless Laser Power Transmission Step-Down System; *JPHOT April 2020 8400214*
- Wang, Y.**, see Gao, G., *JPHOT April 2020 3900216*
- Wang, Y.**, and Wu, X., Regulating the Single-Mode Lasing Intensity of Semiconductor Lasers Without Wavelength Shift; *JPHOT April 2020 6100709*
- Wang, Y.**, Jin, X., Cao, S., Peng, Y., and Luo, J., Design and Measurement of Ring-Gate Single Photon Avalanche Diode With Low Dark Count Rate; *JPHOT June 2020 6801711*
- Wang, Y.**, see Zhang, G., *JPHOT June 2020 7101008*
- Wang, Y.**, Cao, J., Xu, C., Rizvi, S., Li, K., and Hao, Q., Fast Visibility Restoration Using a Single Degradation Image in Scattering Media; *JPHOT June 2020 6100813*
- Wang, Y.**, see Zhao, H., *JPHOT June 2020 7102009*
- Wang, Y.**, Feng, Y., Ma, Y., Chang, Z., Peng, W., Sun, Y., Gao, Q., Zhu, R., and Tang, C., 2.5 kW Narrow Linewidth Linearly Polarized All-Fiber MOPA With Cascaded Phase-Modulation to Suppress SBS Induced Self-Pulsing; *JPHOT June 2020 1502815*
- Wang, Y.**, Zhou, W., Ding, Y., Meng, T., Dong, W., and Zhang, X., Simple and Flexible All-Optical Microwave Photonic Frequency Converter Based on Stimulated Brillouin Scattering Effect; *JPHOT Oct. 2020 7801108*
- Wang, Y.**, see Wang, J., *JPHOT Dec. 2020 5502708*
- Wang, Y.**, see Han, X., *JPHOT Dec. 2020 6901812*
- Wang, Y.**, Yang, H., Dong, W., Lei, L., Xu, J., Zhang, X., and Xu, P., Highly Nonlinear Organic-Silicon Slot Waveguide for Ultrafast Multimode All-Optical Logic Operations; *JPHOT Dec. 2020 3200712*
- Wang, Y.**, see Ma, J., *JPHOT Dec. 2020 5503010*
- Wang, Y.**, see Li, Y., *JPHOT Dec. 2020 7906915*
- Wang, Z.**, see Shen, Z., *JPHOT Aug. 2020 4600810*
- Wang, Z.**, see Xu, Q., *JPHOT April 2020 6900807*
- Wang, Z.**, Cheng, L., Wu, Y., Li, C., Gong, M., Cao, P., He, X., and Niu, T., Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays; *JPHOT June 2020 4800410*
- Wang, Z.**, see Guo, P., *JPHOT Oct. 2020 6602009*
- Wang, Z.**, Wang, G., and Gao, W., Research on Three-Dimensional Magnetic Induced Error Model of Interferometric Fiber Optic Gyro; *JPHOT Oct. 2020 6802412*
- Wang, Z.**, see Wang, Z., *JPHOT Oct. 2020 6802412*
- Wang, Z.**, see Hou, F., *JPHOT Oct. 2020 6802709*
- Wang, Z.**, see Gu, J., *JPHOT Dec. 2020 7103612*
- Wang, Z.**, see Chen, H., *JPHOT Dec. 2020 7103412*
- Wang, Z.**, see Wen, L., *JPHOT Dec. 2020 1400208*

- Watanabe, A.**, Inoue, J., Kintaka, K., Zhang, S., Ura, S., and Magnusson, R., Dimensional Transformations of Guided-Mode Resonant Photonic Lattices; *JPHOT Dec. 2020 4502108*
- Watanabe, M.**, see Takaki, Y., *JPHOT Dec. 2020 7801411*
- Wei, Q.**, see Wu, Z., *JPHOT April 2020 1501807*
- Wei, R.**, Wang, M., Zhu, Z., Lai, W., Yan, P., Ruan, S., Wang, J., Sun, Z., and Hasan, T., High-Power Femtosecond Pulse Generation From an All-Fiber Er-Doped Chirped Pulse Amplification System; *JPHOT April 2020 3200208*
- Wei, S.**, Yao, B., Chen, Y., and Mao, Q., Cladding-Pumped Erbium-Ytterbium Co-Doped Fiber Amplifier With Dual-Wavelength Auxiliary Signal Injection of 1030 and 1040 nm; *JPHOT April 2020 1501509*
- Wei, T.**, see Luo, J., *JPHOT April 2020 7500415*
- Wei, W.**, Xie, Z., Ma, H., Qi, B., and Ren, G., Momentum-Accelerated Incoherent Fourier Ptychographic Photography; *JPHOT April 2020 3900414*
- Wei, W.**, see Zhang, L., *JPHOT June 2020 5501511*
- Wei, W.**, see Zhang, Z., *JPHOT June 2020 7101908*
- Wei, Z.**, see Zhao, L., *JPHOT June 2020 5501111*
- Wei, Z.**, see Li, H., *JPHOT Dec. 2020 7906512*
- Wen, A.**, see Zhang, H., *JPHOT Feb. 2020 5500208*
- Wen, A.**, see Ma, J., *JPHOT Dec. 2020 5503010*
- Wen, H.**, see Gong, B., *JPHOT April 2020 6500208*
- Wen, H.**, Geng, K., Chen, Q., Deng, R., Chen, M., Zong, T., Luo, K., and Liu, F., A Simple Blind Sampling Frequency Offset Estimation Scheme for Short-Reach DD-OFDM Systems; *JPHOT Dec. 2020 7906010*
- Wen, L.**, see Zhu, L., *JPHOT April 2020 6900614*
- Wen, L.**, Wang, Z., Zhang, L., Yuan, Q., Ge, C., and Yang, T., Frequency Quasi-Linear Swept Light Source Based on Multi-Frequency Time-Matched Spectrum Stitching; *JPHOT Dec. 2020 1400208*
- Wen, S.**, see Guan, W., *JPHOT April 2020 7901716*
- Wenclawiak, M.**, Andrews, A.M., Strasser, G., Unterrainer, K., and Darmo, J., Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms; *JPHOT Oct. 2020 5900608*
- Weng, W.**, see Huang, H., *JPHOT June 2020 1503008*
- Wijesinghe, R.E.**, Lee, J., Jeon, D., Kim, P., Han, S., Lee, J., Seong, D., Lee, D., Jang, J.H., Jeon, M., and Kim, J., Non-Invasive Optical Screening of *Streptococcus Pneumonia* Based Inflammatory Changes of the Tympanic Membrane and Mastoid Mucosa in Guinea Pig Otitis Media Using Optical Coherence Tomography; *JPHOT Aug. 2020 3700611*
- Wittwer, V.J.**, see Andrade, J.R.C., *JPHOT April 2020 1500609*
- Wohlgemuth, E.**, see Faig, H., *JPHOT Feb. 2020 7200310*
- Wu, B.**, see Ji, J., *JPHOT June 2020 7903212*
- Wu, B.**, see Wang, C., *JPHOT Dec. 2020 5502411*
- Wu, C.**, see Zhu, Z., *JPHOT April 2020 7800614*
- Wu, C.**, see Tsai, Y., *JPHOT Dec. 2020 2400409*
- Wu, D.**, see Luo, J., *JPHOT April 2020 7500415*
- Wu, D.**, see Mei, G., *JPHOT Dec. 2020 1600314*
- Wu, G.**, see Sun, Y., *JPHOT Feb. 2020 5500509*
- Wu, G.**, see Ji, Y., *JPHOT Feb. 2020 7900510*
- Wu, H.**, Lu, J., Huang, L., Zeng, X., and Zhou, P., All-Fiber Laser With Agile Mode-Switching Capability Through Intra-Cavity Conversion; *JPHOT April 2020 1500709*
- Wu, H.**, see Li, H., *JPHOT Dec. 2020 7906512*
- Wu, J.**, see Lin, C., *JPHOT Aug. 2020 4100218*
- Wu, J.**, see Xie, Z.T., *JPHOT Aug. 2020 4501510*
- Wu, J.**, see Chen, P., *JPHOT June 2020 4100115*
- Wu, J.**, see Guo, P., *JPHOT Oct. 2020 6602009*
- Wu, J.**, see Chen, Y., *JPHOT Oct. 2020 7103109*
- Wu, K.**, see Zhang, T., *JPHOT Dec. 2020 9700401*
- Wu, K.**, see Zhang, T., *JPHOT Dec. 2020 5502512*
- Wu, L.**, see Zhao, L., *JPHOT Feb. 2020 1500107*
- Wu, L.**, see Sun, B., *JPHOT April 2020 1501607*
- Wu, L.**, see Sun, B., *JPHOT June 2020 1502310*
- Wu, L.**, see Gao, J., *JPHOT Oct. 2020 7905312*
- Wu, L.**, see Xu, L., *JPHOT Oct. 2020 6803310*
- Wu, M.**, Li, B., Li, J., Zhou, G., Xia, C., and Hou, Z., Research on Fabrication and Performance of Hollow-Core Anti-Resonant Fiber Coated With Copper Film; *JPHOT June 2020 7101708*
- Wu, P.**, see Tao, X., *JPHOT Aug. 2020 4501308*
- Wu, P.**, see Chen, Q., *JPHOT Feb. 2020 6800112*
- Wu, T.**, see Lei, S., *JPHOT Aug. 2020 8200509*
- Wu, T.**, see Peng, Z., *JPHOT Feb. 2020 8200108*
- Wu, T.**, see Liu, S., *JPHOT April 2020 1501206*
- Wu, X.**, see Liu, F., *JPHOT April 2020 1500910*
- Wu, X.**, see Wang, Y., *JPHOT April 2020 6100709*
- wu, X.**, see han, S., *JPHOT June 2020 7201510*
- Wu, Y.**, see Chen, Q., *JPHOT Feb. 2020 6800112*
- Wu, Y.**, Hsu, K., Liu, Y., Hong, C., Chow, C., Yeh, C., Liao, X., Lin, K., and Chen, Y., Using Linear Interpolation to Reduce the Training Samples for Regression Based Visible Light Positioning System; *JPHOT April 2020 7901305*
- Wu, Y.**, see Jin, L., *JPHOT April 2020 1500806*
- Wu, Y.**, see Hong, C., *JPHOT June 2020 7902605*
- Wu, Y.**, see Kong, L., *JPHOT June 2020 3900512*
- Wu, Y.**, see Zhao, H., *JPHOT June 2020 7102009*
- Wu, Y.**, see Wang, Z., *JPHOT June 2020 4800410*
- Wu, Y.**, Wang, J., Chen, C., Liu, C., Jin, F., and Hu, Y., Generation of Phase-Only Fourier Hologram Based on Double Phase Method and Quantization Error Analysis; *JPHOT Oct. 2020 7000913*
- Wu, Z.**, see Su, X., *JPHOT Aug. 2020 7102114*
- Wu, Z.**, Wei, Q., Huang, P., Fu, S., Liu, D., and Huang, T., Nonlinear Polarization Evolution Mode-Locked YDFL Based on All-PM Fiber Cavity; *JPHOT April 2020 1501807*
- Wu, Z.**, see Deng, H., *JPHOT June 2020 5900213*
- Wu, Z.**, see Qin, H., *JPHOT June 2020 3700207*
- Wu, Z.**, see Wang, Q., *JPHOT Oct. 2020 1504108*
- Wu, Z.**, see Hu, C., *JPHOT Oct. 2020 1504008*
- Wu, Z.**, see Hao, Q., *JPHOT Oct. 2020 3800110*
- Wu, Z.**, see Xu, Y., *JPHOT Oct. 2020 6803208*
- Wu, Z.**, Cao, C., Zeng, X., Feng, Z., Shen, J., Yan, X., Wang, B., and Su, X., Filterless Radio-Over-Fiber System to Generate 40 and 80 GHz Millimeter-Wave; *JPHOT Dec. 2020 5502313*
- Wuu, D.**, see Chen, P., *JPHOT Aug. 2020 7000711*

X

- Xi, C.**, see Sheng, A., *JPHOT April 2020 6100607*
- Xia, C.**, see Wu, M., *JPHOT June 2020 7101708*
- Xia, G.**, see Wang, Q., *JPHOT Oct. 2020 1504108*
- Xia, G.**, see Hu, C., *JPHOT Oct. 2020 1504008*
- Xia, M.**, see Jiang, T., *JPHOT Aug. 2020 7102607*
- Xia, P.**, see Zhang, Q., *JPHOT April 2020 6600810*
- Xia, R.**, Luo, Y., Shum, P.P., Xiang, Y., Ni, W., Liu, Y., Lam, H.Q., Tang, D., and Tang, X., Vectorial Nature in Nonlinear Multimode Interference Based Ultrafast Fiber Lasers; *JPHOT April 2020 1501310*
- Xia, Z.**, see Liang, H., *JPHOT June 2020 7201811*
- Xiang, J.**, see Zhang, T., *JPHOT Dec. 2020 9700401*
- Xiang, J.**, see Zhang, T., *JPHOT Dec. 2020 5502512*
- Xiang, Y.**, see Xia, R., *JPHOT April 2020 1501310*
- Xiang, Z.Y.**, see Shen, Z., *JPHOT Aug. 2020 4601010*
- Xiao, G.**, see Sun, T., *JPHOT Feb. 2020 8400112*
- Xiao, H.**, see Chen, Y., *JPHOT Dec. 2020 1504713*
- Xiao, L.**, see Yu, X., *JPHOT Aug. 2020 7904011*
- Xiao, R.**, see Yuan, B., *JPHOT Dec. 2020 3030669*
- Xiao, S.**, see Fang, J., *JPHOT Dec. 2020 7906110*
- Xiao, T.**, see Zhang, B., *JPHOT Dec. 2020 4801009*
- Xiao, Y.**, see Yang, T., *JPHOT April 2020 7800310*
- Xiao, Y.**, Chen, Y., Long, C., Shi, J., Ma, J., and He, J., A Novel Hybrid Secure Method Based on DNA Encoding Encryption and Spiral Scrambling in Chaotic OFDM-PON; *JPHOT June 2020 7201215*
- Xiao-Xue, J.**, Gao, Y., Shi-Hui, Z., Wang, T., and Wang, C., The Particle Induced Mode Splitting and Exceptional Points in Whispering-Gallery Mode Microcavity; *JPHOT Dec. 2020 6803414*
- Xie, E.**, see Arvanitakis, G.N., *JPHOT April 2020 7901210*
- Xie, J.**, see He, Q., *JPHOT Aug. 2020 5501910*

- Xie, J.**, see Zhang, T., *JPHOT April 2020 4800210*
- Xie, L.**, see Han, X., *JPHOT Dec. 2020 6901812*
- Xie, P.**, see Jin, H., *JPHOT April 2020 6800711*
- Xie, S.**, Li, H., Ahmed, J., and Huffaker, D.L., 3D Simple Monte Carlo Statistical Model for GaAs Nanowire Single Photon Avalanche Diode; *JPHOT Aug. 2020 6802008*
- Xie, W.**, see Zhang, L., *JPHOT June 2020 5501511*
- Xie, X.**, see Li, Y., *JPHOT April 2020 4600410*
- Xie, X.**, see Li, G., *JPHOT April 2020 1501009*
- Xie, X.**, see Guo, R., *JPHOT June 2020 5501316*
- Xie, Y.**, see Zhang, J., *JPHOT April 2020 7902011*
- Xie, Y.**, see Liu, B., *JPHOT Oct. 2020 3900817*
- Xie, Z.**, see Xu, F., *JPHOT Feb. 2020 2500107*
- Xie, Z.**, see Wei, W., *JPHOT April 2020 3900414*
- Xie, Z.**, see Ren, Y., *JPHOT June 2020 7000615*
- Xie, Z.**, see Lv, W., *JPHOT Dec. 2020 3901113*
- Xie, Z.T.**, Wu, J., Fu, H.Y., and Li, Q., Tunable Electro- and All-Optical Switch Based on Epsilon-Near-Zero Metasurface; *JPHOT Aug. 2020 4501510*
- Xin, G.**, see Guo, J., *JPHOT Dec. 2020 7906815*
- Xin, X.**, see Memon, K.A., *JPHOT Feb. 2020 7200408*
- Xin, Y.**, Shen, H., Zhang, S., Li, X., Liu, J., and Yan, D., Tunable Multi-Wavelength Bright-Dark and Dark-Bright Pulse Pairs Fiber Lasers; *JPHOT Dec. 2020 7103209*
- Xing, D.**, see Qin, H., *JPHOT June 2020 3700207*
- Xing, L.**, see Chen, Y., *JPHOT April 2020 3700109*
- Xing, X.**, see Chen, Y., *JPHOT Oct. 2020 7103109*
- Xing, Y.**, see Deng, H., *JPHOT June 2020 7000511*
- Xiong, B.**, Luo, X., Gu, J., Li, M., Wang, F., and Dou, R., A POTDR System Based on Dual Sensing Directions; *JPHOT April 2020 7100708*
- Xiong, Q.**, see Shen, X., *JPHOT June 2020 8200313*
- Xiong, W.**, see Zhang, W., *JPHOT June 2020 6801612*
- Xiong, Z.**, see Yang, H., *JPHOT Feb. 2020 6100208*
- Xiong, Z.**, see Deng, H., *JPHOT June 2020 5900213*
- Xu, B.**, see Sun, J., *JPHOT Aug. 2020 5502010*
- Xu, B.**, see Zhang, X., *JPHOT April 2020 7100410*
- Xu, B.**, see Zhu, L., *JPHOT April 2020 6900614*
- Xu, C.**, see Wang, Y., *JPHOT June 2020 6100813*
- Xu, D.**, see Liu, K., *JPHOT Dec. 2020 2200910*
- Xu, F.**, Tao, T., Liu, B., Wang, X., Gong, M., Zhi, T., Pan, D., Xie, Z., Zhou, Y., Zheng, Y., and Zhang, R., High-Performance Semi-Polar InGaN/GaN Green Micro Light-Emitting Diodes; *JPHOT Feb. 2020 2500107*
- Xu, F.**, see Zhang, G., *JPHOT June 2020 7101008*
- Xu, F.**, see Tian, Y., *JPHOT Dec. 2020 7103507*
- Xu, H.**, see Yang, T., *JPHOT April 2020 7800310*
- Xu, H.**, see Xu, R., *JPHOT April 2020 1501708*
- Xu, J.**, see Lei, S., *JPHOT Aug. 2020 8200509*
- Xu, J.**, see Wang, J., *JPHOT Aug. 2020 6601408*
- Xu, J.**, see Yang, H., *JPHOT Feb. 2020 6100208*
- Xu, J.**, see Gao, F., *JPHOT April 2020 1400109*
- Xu, J.**, see Zhang, B., *JPHOT Dec. 2020 2201008*
- Xu, J.**, see Wang, Y., *JPHOT Dec. 2020 3200712*
- Xu, K.**, see Liu, Y., *JPHOT Aug. 2020 4900308*
- Xu, K.**, see Zhang, T., *JPHOT April 2020 4800210*
- Xu, L.**, see Zhao, C., *JPHOT Aug. 2020 2200511*
- Xu, L.**, see Jin, L., *JPHOT April 2020 1500806*
- Xu, L.**, see Chen, M., *JPHOT April 2020 7800510*
- Xu, L.**, Liu, L., Chen, M., and Ye, M., All-Silicon Energy-Efficient Optical Diode Using Opto-Mechanical Microring Resonators; *JPHOT June 2020 4501009*
- Xu, L.**, Yang, X., Wu, L., Jin, C., and Zhang, Y., Dual Gm-APD Polarization Lidar to Acquire the Depth Image of Shallow Semitransparent Media With a Wide Laser Pulse; *JPHOT Oct. 2020 6803310*
- Xu, M.**, see Nie, Y., *JPHOT April 2020 5300107*
- Xu, M.**, see Ji, J., *JPHOT June 2020 7903212*
- Xu, M.**, see Zhou, P., *JPHOT Oct. 2020 6901613*
- Xu, N.**, see Yuan, B., *JPHOT Dec. 2020 3030669*
- Xu, P.**, see Yang, T., *JPHOT April 2020 7800310*
- Xu, P.**, see Wang, Y., *JPHOT Dec. 2020 3200712*
- Xu, Q.**, Sun, B., Zhao, J., Wang, Z., Du, L., Sun, C., Li, X., and Li, X., Imaging and Tracking Through Scattering Medium With Low Bit Depth Speckle; *JPHOT April 2020 6900807*
- Xu, Q.**, see Lv, B., *JPHOT Oct. 2020 4601410*
- Xu, R.**, see Chen, Q., *JPHOT Feb. 2020 6800112*
- Xu, R.**, Mei, Y., Xu, H., Yang, T., Ying, L., Zheng, Z., Long, H., Zhang, B., and Liu, J., Effects of Lateral Optical Confinement In GaN VCSELs With Double Dielectric DBRs; *JPHOT April 2020 1501708*
- Xu, R.**, see Chen, M., *JPHOT June 2020 4500609*
- Xu, R.**, see Cui, Y., *JPHOT Dec. 2020 1504413*
- Xu, S.**, see Cai, J., *JPHOT April 2020 7000310*
- Xu, S.**, see Ren, Y., *JPHOT June 2020 7000615*
- Xu, S.**, see Song, N., *JPHOT June 2020 7101806*
- Xu, T.**, see Zhang, J., *JPHOT April 2020 6900914*
- Xu, T.**, see Ma, X., *JPHOT Oct. 2020 3400217*
- Xu, W.**, see Kazemzadeh, M., *JPHOT Aug. 2020 4800513*
- Xu, X.**, see Zhu, Z., *JPHOT Aug. 2020 6500917*
- Xu, X.**, see Song, N., *JPHOT June 2020 7101806*
- xu, X.**, see han, S., *JPHOT June 2020 7201510*
- Xu, X.**, see Jin, X., *JPHOT Oct. 2020 1503915*
- Xu, Y.**, see Lei, S., *JPHOT Aug. 2020 8200509*
- Xu, Y.**, see Yang, Y., *JPHOT Aug. 2020 7800912*
- Xu, Y.**, see Liu, Z., *JPHOT Aug. 2020 0600112*
- Xu, Y.**, Hu, S., and Kong, M., Air-Mode Photonic Crystal Micro-Ring Resonator With Enhanced Quality Factor for Refractive Index Sensing; *JPHOT June 2020 6601111*
- Xu, Y.**, Lu, J., and Wu, Z., A Compact High-Speed Active Quenching and Recharging Circuit for SPAD Detectors; *JPHOT Oct. 2020 6803208*
- Xu, Y.**, see Li, H., *JPHOT Dec. 2020 7906512*
- Xu, Z.**, see Li, C., *JPHOT Aug. 2020 7903912*
- Xu, Z.**, Lyu, T., and Sun, X., Interleaved Subwavelength Gratings Strip Waveguide Based TM Pass Polarizer on SOI Platform; *JPHOT April 2020 4900110*
- Xu, Z.**, see Zhou, Y., *JPHOT June 2020 4500414*
- Xu, Z.**, see Tsai, Y., *JPHOT Dec. 2020 2400409*
- Xue, W.**, see Liu, L., *JPHOT Dec. 2020 4501809*
- Xue, X.**, see Yan, B., *JPHOT June 2020 7600213*
- Xue, Y.**, Li, L., Zhang, B., Wang, R., Cui, J., Tian, F., and Zhang, J., Watt-Level Continuous-Wave Mode-Locked Nd:YVO₄ Laser With ReSe₂ Saturable Absorber; *JPHOT Oct. 2020 1503710*
- Xue, Y.Z.**, see Shen, Z., *JPHOT Aug. 2020 4601010*

Y

- Yamada, T.**, see Hirano, Y., *JPHOT April 2020 6600807*
- Yamamoto, N.**, see Younus, O.I., *JPHOT June 2020 7902814*
- Yan, B.**, Li, Q., Mao, H., and Xue, X., High-Speed Privacy Amplification Scheme Using GMP in Quantum Key Distribution; *JPHOT June 2020 7600213*
- Yan, D.**, see Zhang, H., *JPHOT April 2020 7101608*
- Yan, D.**, see Xin, Y., *JPHOT Dec. 2020 7103209*
- Yan, F.**, see Liu, Y., *JPHOT Aug. 2020 7102311*
- Yan, F.**, see Liu, F., *JPHOT April 2020 1500910*
- Yan, F.**, see Guo, Y., *JPHOT April 2020 7100610*
- Yan, L.**, see Liu, P., *JPHOT June 2020 5501210*
- Yan, L.**, see Lu, X., *JPHOT June 2020 5500911*
- Yan, L.**, see Feng, X., *JPHOT Oct. 2020 5502208*
- Yan, P.**, see Wei, R., *JPHOT April 2020 3200208*
- Yan, S.**, see Guo, J., *JPHOT Aug. 2020 4800710*
- Yan, X.**, see Yu, X., *JPHOT Oct. 2020 2200708*
- Yan, X.**, see Wu, Z., *JPHOT Dec. 2020 5502313*
- Yan, Z.**, Du, C., and Zhang, L., Surface Micro-Reflector Array for Augmented Reality Display; *JPHOT April 2020 7000209*
- Yan, Z.**, see Chen, Y., *JPHOT Oct. 2020 7103109*
- Yang, A.**, see Tan, Q., *JPHOT April 2020 7902212*

- Yang, B., Chi, H., Yang, S., Cao, Z., Ou, J., and Zhai, Y., Broadband Microwave Spectrum Sensing Based on Photonic RF Channelization and Compressive Sampling; *JPHOT Feb. 2020 5500109*
- Yang, B., Chen, H., Yang, S., and Chen, M., A Design Method of Optical Phased Array With Insufficient Phase Tuning Range; *JPHOT April 2020 6600409*
- Yang, C., see Luo, J., *JPHOT April 2020 7500415*
- Yang, C., see Liu, C., *JPHOT April 2020 7200811*
- Yang, C., see He, J., *JPHOT June 2020 7800712*
- Yang, C., see Lee, C., *JPHOT June 2020 7100910*
- Yang, C., Shan, K., Chen, J., Hou, J., and Chen, S., CNN-Based Phase Matching for the OAM Mode Selection in Turbulence Heterodyne Coherent Mitigation Links; *JPHOT Dec. 2020 7905913*
- Yang, D., see Wang, Y., *JPHOT Aug. 2020 5501710*
- Yang, D., see Li, X., *JPHOT June 2020 4900208*
- Yang, D., see Li, J., *JPHOT Oct. 2020 5900509*
- Yang, F., see Wang, Y., *JPHOT Aug. 2020 5501710*
- Yang, F., see Huang, X., *JPHOT April 2020 7901512*
- Yang, G., see Arvanitakis, G.N., *JPHOT April 2020 7901210*
- Yang, G., see Zhou, X., *JPHOT Oct. 2020 7202408*
- Yang, H., see Zhang, H., *JPHOT Aug. 2020 7102213*
- Yang, H., Xiong, Z., Hu, H., Chen, Y., Zhang, X., and Xu, J., Spatial-Dependent Hamiltonian Formulation of Cross-Mode Modulation; *JPHOT Feb. 2020 6100208*
- Yang, H., see Chen, M., *JPHOT June 2020 4500609*
- Yang, H., see Fang, J., *JPHOT Dec. 2020 7906110*
- Yang, H., see Wang, Y., *JPHOT Dec. 2020 3200712*
- Yang, J., see Li, Z., *JPHOT Aug. 2020 3900613*
- Yang, J., see Liu, H., *JPHOT Aug. 2020 7903712*
- Yang, J., see He, X., *JPHOT Aug. 2020 2200410*
- Yang, J., see Zhang, Q., *JPHOT April 2020 6600810*
- Yang, J., see Zhang, B., *JPHOT April 2020 6600610*
- Yang, J., see Chu, C., *JPHOT June 2020 7902409*
- Yang, J., see Song, S., *JPHOT Oct. 2020 3901016*
- Yang, J., see Chen, Y., *JPHOT Oct. 2020 7103109*
- Yang, J., see Gu, J., *JPHOT Dec. 2020 7103612*
- Yang, K., see Lian, T., *JPHOT Aug. 2020 6601610*
- Yang, K., see Zhu, H., *JPHOT Feb. 2020 6800214*
- Yang, K., see Lv, W., *JPHOT Dec. 2020 3901113*
- Yang, L., see Hou, S., *JPHOT April 2020 1501408*
- Yang, L., see Liu, S., *JPHOT April 2020 1501206*
- Yang, L., see Zhang, L., *JPHOT Oct. 2020 6601906*
- Yang, L., see Hou, F., *JPHOT Oct. 2020 6802709*
- Yang, M., see Li, C., *JPHOT Aug. 2020 7202211*
- Yang, N., see Tang, B., *JPHOT June 2020 4500209*
- Yang, P., see Zhu, L., *JPHOT April 2020 6900614*
- Yang, Q., Liu, Y., Gan, X., Fang, C., Han, G., and Hao, Y., Nonlinear Bound States in the Continuum of Etchless Lithium Niobate Metasurfaces; *JPHOT Oct. 2020 4601209*
- Yang, S., see Li, J., *JPHOT Aug. 2020 6601309*
- Yang, S., see Li, K., *JPHOT Feb. 2020 1500409*
- Yang, S., see Yang, B., *JPHOT Feb. 2020 5500109*
- Yang, S., see Yang, B., *JPHOT April 2020 6600409*
- Yang, S., see Hu, C., *JPHOT April 2020 6900708*
- Yang, S., see Huang, H., *JPHOT Oct. 2020 6803012*
- Yang, S., see Li, K., *JPHOT Oct. 2020 1503811*
- Yang, S., see Wang, X., *JPHOT Dec. 2020 3200510*
- Yang, S., see Tsai, Y., *JPHOT Dec. 2020 2400409*
- Yang, S., see Luan, J., *JPHOT Dec. 2020 4601510*
- Yang, T., Chen, M., Xiao, Y., Xu, H., and Xu, P., Research on 2F Optical Correlator Based on Neural Network Filter for Recognizing Large-Angle Rotation Distortion Target; *JPHOT April 2020 7800310*
- Yang, T., see Xu, R., *JPHOT April 2020 1501708*
- Yang, T., see Yu, Y., *JPHOT Oct. 2020 6501012*
- Yang, T., see Wen, L., *JPHOT Dec. 2020 1400208*
- Yang, W., Song, S., Powell, K., Tian, X., Li, L., Nguyen, L., and Yi, X., Etched Silicon-on-Insulator Microring Resonator for Ultrasound Measurement; *JPHOT April 2020 6801409*
- Yang, W., see Li, L., *JPHOT June 2020 4500708*
- Yang, W., see Wang, Q., *JPHOT Oct. 2020 1504108*
- Yang, W., see Hu, C., *JPHOT Oct. 2020 1504008*
- Yang, X., see Guo, J., *JPHOT Aug. 2020 4800710*
- Yang, X., see Hu, M., *JPHOT Aug. 2020 5900309*
- Yang, X., see Bian, H., *JPHOT April 2020 6801009*
- Yang, X., see Lv, J., *JPHOT June 2020 7800810*
- Yang, X., see Xu, L., *JPHOT Oct. 2020 6803310*
- Yang, Y., Xu, Y., Guan, T., Shi, L., Li, J., Li, D., He, Y., Wang, X., Li, Z., and Ji, Y., Spectrum Intensity Ratio Detection for Frequency Domain Weak Measurement System; *JPHOT Aug. 2020 7800912*
- Yang, Y., see Wang, J., *JPHOT Aug. 2020 6802114*
- Yang, Y., see Li, M., *JPHOT Aug. 2020 7904308*
- Yang, Y., see Bandyopadhyay, S., *JPHOT Feb. 2020 7100313*
- Yang, Y., see Wang, C., *JPHOT Feb. 2020 7900112*
- Yang, Y., see Zhuang, Y., *JPHOT June 2020 7201707*
- Yang, Y., see Lv, J., *JPHOT June 2020 7800810*
- Yang, Y., see Liu, L., *JPHOT June 2020 4500312*
- Yang, Y., see Wang, L., *JPHOT June 2020 4600712*
- Yang, Y., see Hou, F., *JPHOT Oct. 2020 6802709*
- Yang, Z., see He, W., *JPHOT Feb. 2020 6900111*
- Yang, Z., see Di, Z., *JPHOT April 2020 7101308*
- Yang, Z., see Sheng, A., *JPHOT April 2020 6100607*
- Yanikomeroglu, H., see Erdogan, E., *JPHOT Feb. 2020 7900313*
- Yao, B., see Wei, S., *JPHOT April 2020 1501509*
- Yao, H., see Yu, X., *JPHOT Aug. 2020 7904011*
- Yao, H., see Bian, H., *JPHOT April 2020 6801009*
- Yao, J., see Zhao, L., *JPHOT Feb. 2020 1500107*
- Yao, J., see Jin, L., *JPHOT April 2020 1500806*
- Yao, J., see Sun, B., *JPHOT April 2020 1501607*
- Yao, J., see Sun, B., *JPHOT June 2020 1502310*
- Yao, J., see Liu, K., *JPHOT Dec. 2020 2200910*
- Yao, J., see He, Y., *JPHOT Dec. 2020 6101209*
- Yao, T., see Chen, Y., *JPHOT Dec. 2020 1504713*
- Yao, W., see Tang, J., *JPHOT April 2020 1501107*
- Yao, Y., see Liu, Y., *JPHOT Aug. 2020 4900308*
- Yariv, I., Duadi, H., and Fixler, D., Depth Scattering Characterization of Multi-Layer Turbid Media Based on Iterative Multi-Plane Reflectance Measurements; *JPHOT Oct. 2020 3700713*
- Yasli, A., Ademgil, H., Haxha, S., and Aggoun, A., Multi-Channel Photonic Crystal Fiber Based Surface Plasmon Resonance Sensor for Multi-Analyte Sensing; *JPHOT Feb. 2020 6800515*
- Yatsenko, Y., see Krylov, A., *JPHOT April 2020 7100515*
- Ye, F., see Cai, Y., *JPHOT Aug. 2020 7102508*
- Ye, J., see Liu, P., *JPHOT June 2020 5501210*
- Ye, J., see Feng, X., *JPHOT Oct. 2020 5502208*
- Ye, L., see Gu, J., *JPHOT Dec. 2020 7103612*
- Ye, M., see Chen, M., *JPHOT April 2020 7800510*
- Ye, M., see Xu, L., *JPHOT June 2020 4501009*
- Ye, Q., see Gu, J., *JPHOT Dec. 2020 7103612*
- Ye, Y., see Cai, J., *JPHOT April 2020 7000310*
- Ye, Y., see Liu, B., *JPHOT Oct. 2020 3900817*
- Yegnanarayanan, S., see Kharas, D., *JPHOT Dec. 2020 1504612*
- Yeh, C., see Wu, Y., *JPHOT April 2020 7901305*
- Yeh, C., see Hong, C., *JPHOT June 2020 7902605*
- Yeh, C., see Adnan, A., *JPHOT June 2020 7201405*
- Yeh, C., You, W., Chen, J., Chow, C., and Lin, W., An Erbium Fiber Laser With Single-Frequency Oscillation and Wavelength-Upconverted Output; *JPHOT Oct. 2020 7102807*
- Yeh, C., see Gunawan, W.H., *JPHOT Oct. 2020 7905205*
- Yeh, C., You, W., Chen, J., Lin, W., Chow, C., and Chen, J., A Single-Mode Erbium Fiber Laser With Flat Power Output and Wide Wavelength Tunability; *JPHOT Dec. 2020 7202805*
- Yepez, P.A.K., Scholz, U., and Zimmermann, A., Temperature Dependence of the Steering Angles of a Silicon Photonic Optical Phased Array; *JPHOT April 2020 6800813*

- Yi, C., Chi, H., and Jin, T., A Photonic Approach for Doppler Frequency Shift Measurement With Dispersion Medium; *JPHOT Oct. 2020 7102708*
- Yi, J., Miao, L., Li, J., Yi, Q., Huang, J., and Zhao, C., Self-Defocusing of Light in Ethanol Around 1550 nm; *JPHOT Feb. 2020 6100408*
- Yi, P., see Jin, Y., *JPHOT April 2020 7200913*
- Yi, Q., see Yi, J., *JPHOT Feb. 2020 6100408*
- Yi, X., see Yang, W., *JPHOT April 2020 6801409*
- Yi, Y., see Lv, J., *JPHOT June 2020 7800810*
- Yi, Z., see Hu, M., *JPHOT Aug. 2020 5900309*
- Yin, D., Gu, Z., Zhang, Y., Gu, F., Nie, S., Ma, J., and Yuan, C., Digital Holographic Reconstruction Based on Deep Learning Framework With Unpaired Data; *JPHOT April 2020 3900312*
- Yin, G., see Iroegbu, P.L., *JPHOT Oct. 2020 1503612*
- Yin, L., see Liu, J., *JPHOT April 2020 6801206*
- Yin, Q., see Guo, R., *JPHOT June 2020 5501316*
- Yin, X., see Sang, T., *JPHOT April 2020 4500111*
- Yin, X., see Lv, J., *JPHOT Oct. 2020 4501610*
- Ying, L., see Xu, R., *JPHOT April 2020 1501708*
- Ying, Z., Feng, C., Zhao, Z., Gu, J., Soref, R., Pan, D.Z., and Chen, R.T., Sequential Logic and Pipelining in Chip-Based Electronic-Photonic Digital Computing; *JPHOT Dec. 2020 7801311*
- Yoffe, Y., see Faig, H., *JPHOT Feb. 2020 7200310*
- You, C., Matyas, C.T., Huang, Y., Dowling, J.P., and Veronis, G., Optimized Multilayer Structures With Ultrabroadband Near-Perfect Absorption; *JPHOT June 2020 4500810*
- You, H., see Wang, H., *JPHOT Feb. 2020 6800606*
- You, W., see Yeh, C., *JPHOT Oct. 2020 7102807*
- You, W., see Yeh, C., *JPHOT Dec. 2020 7202805*
- Younus, O.I., Le Minh, H., Dat, P.T., Yamamoto, N., Pham, A.T., and Ghassemlooy, Z., Dynamic Physical-Layer Secured Link in a Mobile MIMO VLC System; *JPHOT June 2020 7902814*
- Yu, B., see Zhang, G., *JPHOT June 2020 7101008*
- Yu, B., see Liu, X., *JPHOT June 2020 6901011*
- Yu, H., see Zhang, Q., *JPHOT April 2020 6600810*
- Yu, H., see Zhang, B., *JPHOT April 2020 6600610*
- Yu, H., Zou, H., Luo, Z., Gao, W., and Jiang, X., Versatile Vibration Sensing Using a Tapered Photonic Crystal Fiber With a Featured Core; *JPHOT April 2020 6801310*
- Yu, H., see Zhang, D., *JPHOT June 2020 7902716*
- Yu, H., see Si-Ma, L., *JPHOT Dec. 2020 7907115*
- Yu, J., Li, K., Chen, Y., Zhao, L., Huang, Y., Li, Y., Ma, J., and Shan, F., Terahertz-Wave Generation Based on Optical Frequency Comb and Single Mach-Zehnder Modulator; *JPHOT Feb. 2020 7900808*
- Yu, J., see Li, Y., *JPHOT April 2020 7201111*
- Yu, J., see Chen, Y., *JPHOT April 2020 7902309*
- Yu, J., see Ding, J., *JPHOT April 2020 7201008*
- Yu, J., see Li, J.L., *JPHOT April 2020 5500708*
- Yu, J., see Wang, K., *JPHOT June 2020 7201908*
- Yu, K., see Choi, J., *JPHOT Oct. 2020 7102910*
- Yu, L., see Zhu, H., *JPHOT Feb. 2020 6800214*
- Yu, L., see Pan, W., *JPHOT June 2020 1502608*
- Yu, L., see Jin, X., *JPHOT Oct. 2020 1503915*
- Yu, L., see Qian, N., *JPHOT Oct. 2020 5502110*
- Yu, S., see Zhang, T., *JPHOT April 2020 4800210*
- Yu, W., Dai, S., Zhao, Y., Zhao, Q., Li, J., and Liu, J., Tunable Electromagnetically Induced Transparency-Like Spectrum in Lithium Niobate on Insulator Platform With Narrow Linewidth; *JPHOT Oct. 2020 2700308*
- Yu, X., Xiao, L., Gao, S., Song, Y., Zhang, L., Yao, H., Wang, T., Chen, X., Jin, Z., Zhou, C., and Tong, S., Atmospheric Turbulence Suppression Algorithm Based on APD Adaptive Gain Control for FSO Links of 5G Floating Base Stations; *JPHOT Aug. 2020 7904011*
- Yu, X., see Zhao, L., *JPHOT Feb. 2020 1500107*
- Yu, X., see Sun, B., *JPHOT April 2020 1501607*
- Yu, X., see Sun, B., *JPHOT June 2020 1502310*
- Yu, X., Chen, X., Milosevic, M.M., Yan, X., Saito, S., and Reed, G.T., Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits; *JPHOT Oct. 2020 2200708*
- Yu, Y., see Bian, H., *JPHOT April 2020 6801009*
- Yu, Y., Yang, T., Sun, C., Lin, Y., Le, M., Chen, C., Hsieh, P., and Lee, X.H., Scatterometer and Intensity Distribution Meter With Screen Image Synthesis; *JPHOT Oct. 2020 6501012*
- Yu, Y., Yu, Z., and Sun, X., Nonmetallic Broadband Visible-Light Absorbers With Polarization and Incident Angle Insensitivity; *JPHOT Dec. 2020 2200807*
- Yu, Z., see Sun, T., *JPHOT Feb. 2020 8400112*
- Yu, Z., see Chen, M., *JPHOT April 2020 7800510*
- Yu, Z., see Chen, J., *JPHOT Oct. 2020 7905611*
- Yu, Z., see Yu, Y., *JPHOT Dec. 2020 2200807*
- Yuan, B., Shi, J., Qi, W., Li, L., Zheng, J., Xiao, R., Shi, Y., Chen, X., Xu, N., and Zhang, Y., A Monolithic Integrated Dual-Wavelength DFB Laser With Equivalent Inverse-Gaussian Apodized Grating; *JPHOT Dec. 2020 3030669*
- Yuan, C., see Yin, D., *JPHOT April 2020 3900312*
- Yuan, F., Zhao, J., Jiang, W., and Wan, H., Optical Property of Polarization-Maintaining Fiber Taper for Tunable Multi-Wavelength Fiber Laser Generation; *JPHOT Feb. 2020 7100109*
- Yuan, G., see Liu, Y., *JPHOT Oct. 2020 4800810*
- Yuan, H., see Guo, P., *JPHOT Oct. 2020 6602009*
- Yuan, L., see Chen, M., *JPHOT June 2020 4500609*
- Yuan, Q., see Wen, L., *JPHOT Dec. 2020 1400208*
- Yuan, S., see Li, H., *JPHOT Dec. 2020 7906512*
- Yuan, X., see Fan, J., *JPHOT Oct. 2020 4601108*
- Yue, D., see Wang, Q., *JPHOT Oct. 2020 1504108*
- Yue, D., see Hu, C., *JPHOT Oct. 2020 1504008*
- Yue, G., see Chen, W., *JPHOT Aug. 2020 6601506*
- Yue, J., see Liu, L., *JPHOT June 2020 4500312*
- Yun, B., see Zhang, H., *JPHOT Aug. 2020 7102213*

Z

- Zappa, F., see Renna, M., *JPHOT Oct. 2020 6802312*
- Zeng, H., see Li, M., *JPHOT Aug. 2020 7904308*
- Zeng, H., see Fu, H., *JPHOT June 2020 1502507*
- Zeng, R., see Lee, C., *JPHOT June 2020 7100910*
- Zeng, S., see Pan, J., *JPHOT April 2020 6800912*
- Zeng, X., see Wu, H., *JPHOT April 2020 1500709*
- Zeng, X., see Wu, Z., *JPHOT Dec. 2020 5502313*
- Zeng, Y., see Zhou, Y., *JPHOT Aug. 2020 1503106*
- Zeng, Z., see Zhang, L., *JPHOT Aug. 2020 5501611*
- Zeng, Z., see Zhang, L., *JPHOT June 2020 5501010*
- Zhai, W., see Zhang, H., *JPHOT Feb. 2020 5500208*
- Zhai, Y., see Yang, B., *JPHOT Feb. 2020 5500109*
- Zhang, B., Wang, Q., Li, A., and Wang, X., Direct and Practical Identification for Back Focal Plane Based Surface Plasmon Microscopy; *JPHOT Feb. 2020 6900208*
- Zhang, B., see Chen, Q., *JPHOT Feb. 2020 6800112*
- Zhang, B., see Xu, R., *JPHOT April 2020 1501708*
- Zhang, B., Chen, W., Wang, P., Dai, S., Jiang, W., Liang, W., Lu, H., Ding, J., Li, J., Li, Y., Fu, Q., Dai, T., Yu, H., and Yang, J., Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides; *JPHOT April 2020 6600610*
- Zhang, B., see Liu, S., *JPHOT April 2020 1501206*
- Zhang, B., see Xue, Y., *JPHOT Oct. 2020 1503710*
- Zhang, B., Hu, H., Wang, H., Han, C., Shen, Z., Xu, J., Sun, M., and Li, L., Design and Analysis of Asymmetric Capsule-Shaped Metallic Cavities for Unidirectional Waveguide Coupling; *JPHOT Dec. 2020 2201008*
- Zhang, B., and Xiao, T., Surface Plasmon Microscopy Versus Optical Microscopy: Ez Dominates in SPM; *JPHOT Dec. 2020 4801009*
- Zhang, B.F., see Shen, Z., *JPHOT Aug. 2020 4601010*
- Zhang, C., see Zhao, Y., *JPHOT April 2020 6600509*
- Zhang, C., see Guo, R., *JPHOT June 2020 5501316*
- Zhang, C., see Zhang, X., *JPHOT June 2020 7903113*
- Zhang, C., see Wang, L., *JPHOT June 2020 4600712*
- Zhang, C., see Liu, C., *JPHOT Oct. 2020 8400312*
- Zhang, C., see Leng, L., *JPHOT Oct. 2020 6602212*
- Zhang, C., see Li, J., *JPHOT Oct. 2020 5900509*

- Zhang, D.**, see Lian, T., *JPHOT Aug. 2020 6601610*
- Zhang, D.**, Yu, H., Zhu, Y., and Zhu, Z., A Transceiver Design Based on an Autoencoder Network for Multi-Color VLC Systems; *JPHOT June 2020 7902716*
- Zhang, D.**, see Lv, J., *JPHOT June 2020 7800810*
- Zhang, F.**, see Sun, T., *JPHOT Feb. 2020 8400112*
- Zhang, G.**, see Zhao, L., *JPHOT Feb. 2020 1500107*
- Zhang, G.**, see Fan, J., *JPHOT Feb. 2020 8200218*
- Zhang, G.**, see Li, G., *JPHOT April 2020 1501009*
- Zhang, G.**, see Sun, B., *JPHOT April 2020 1501607*
- Zhang, G.**, see Li, M., *JPHOT April 2020 7101414*
- Zhang, G.**, Yu, B., Cao, Z., Lu, L., Xu, F., Zhuang, Z., and Wang, Y., A Low Loss Quantum-Dot-Doped Optical Fiber Temperature Sensor Based on Flexible Print Technology; *JPHOT June 2020 7101008*
- Zhang, G.**, see Sun, B., *JPHOT June 2020 1502310*
- Zhang, G.**, see He, Y., *JPHOT Dec. 2020 6101209*
- Zhang, H.**, Zheng, P., Yang, H., Hu, G., Yun, B., and Cui, Y., A Microwave Frequency Measurement System Based on Si₃N₄ Ring-Assisted Mach-Zehnder Interferometer; *JPHOT Aug. 2020 7102213*
- Zhang, H.**, see Wang, Y., *JPHOT Aug. 2020 5501710*
- Zhang, H.**, see Zheng, D., *JPHOT Feb. 2020 7900708*
- Zhang, H.**, see Gong, L., *JPHOT Dec. 2020 1500306*
- Zhang, H.**, Wen, A., Zhang, W., Zhang, W., Zhai, W., and Tu, Z., A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation; *JPHOT Feb. 2020 5500208*
- Zhang, H.**, Zhang, Z., Peng, C., and Hu, W., Phase Calibration of On-Chip Optical Phased Arrays via Interference Technique; *JPHOT April 2020 6600210*
- Zhang, H.**, Li, Y., Yan, D., Dong, K., Lin, H., Wang, J., and Jing, F., All-Fiber High Power Supercontinuum Generation by Cascaded Photonic Crystal Fibers Ranging From 370 nm to 2400 nm; *JPHOT April 2020 7101608*
- Zhang, H.**, see Gong, Q., *JPHOT June 2020 1502708*
- Zhang, H.**, see Lv, B., *JPHOT Oct. 2020 4601410*
- Zhang, H.**, see Zheng, D., *JPHOT Oct. 2020 7905807*
- Zhang, H.**, see Sun, Y., *JPHOT Oct. 2020 7801218*
- Zhang, J.**, see Zhou, Y., *JPHOT Aug. 2020 1503106*
- Zhang, J.**, see Zhu, X., *JPHOT Aug. 2020 8200712*
- Zhang, J.**, see Li, K., *JPHOT Feb. 2020 1500409*
- Zhang, J.**, see Zhu, H., *JPHOT Feb. 2020 6800214*
- Zhang, J.**, see Li, Y., *JPHOT Feb. 2020 6800308*
- Zhang, J.**, see Zhang, M., *JPHOT Feb. 2020 4600109*
- Zhang, J.**, Li, J., Miao, L., and Zhao, C., Broadband Passive Photonic Diodes With the Saturable Absorption in Antimony Thin Film; *JPHOT Feb. 2020 6100307*
- Zhang, J.**, see Chen, E., *JPHOT Feb. 2020 1500507*
- Zhang, J.**, Pan, X., Pan, G., and Xie, Y., Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination; *JPHOT April 2020 7902011*
- Zhang, J.**, see Ding, J., *JPHOT April 2020 7201008*
- Zhang, J.**, Xu, T., Li, X., Zhang, Y., Chen, Y., Wang, X., Wang, S., and Wang, C., High-Throughput Deep Learning Microscopy Using Multi-Angle Super-Resolution; *JPHOT April 2020 6900914*
- Zhang, J.**, see Hartensveld, M., *JPHOT June 2020 8200408*
- Zhang, J.**, see Zhang, W., *JPHOT June 2020 6801612*
- Zhang, J.**, see Ji, J., *JPHOT June 2020 7903212*
- Zhang, J.**, see Han, S., *JPHOT June 2020 7201510*
- Zhang, J.**, see Guo, P., *JPHOT Oct. 2020 6602009*
- Zhang, J.**, see Liu, C., *JPHOT Oct. 2020 8400312*
- Zhang, J.**, see Li, K., *JPHOT Oct. 2020 1503811*
- Zhang, J.**, see Hartensveld, M., *JPHOT Oct. 2020 8200808*
- Zhang, J.**, see Xue, Y., *JPHOT Oct. 2020 1503710*
- Zhang, J.**, see Guo, J., *JPHOT Dec. 2020 7906815*
- Zhang, J.**, see Hartensveld, M., *JPHOT Dec. 2020 8200906*
- Zhang, L.**, Li, Y., Tao, M., Wang, Y., Hou, Y., Chen, B., Li, Y., Qin, L., Gao, F., Luo, X., Lo, G., and Song, J., Large-Scale Integrated Multi-Lines Optical Phased Array Chip; *JPHOT Aug. 2020 6601208*
- Zhang, L.**, see Tao, X., *JPHOT Aug. 2020 4501308*
- Zhang, L.**, see Yu, X., *JPHOT Aug. 2020 7904011*
- Zhang, L.**, Zeng, Z., Zhang, Y., Zhang, Z., Sun, B., Zhang, S., Zhang, Y., and Liu, Y., Photonics-Assisted Bandwidth-Doubling Dual-Chirp Microwave Signal Generation With Freely-Tunable Central Frequency; *JPHOT Aug. 2020 5501611*
- Zhang, L.**, see Chen, M., *JPHOT Feb. 2020 7900211*
- Zhang, L.**, see Chen, Q., *JPHOT Feb. 2020 6800112*
- Zhang, L.**, see Di, Z., *JPHOT April 2020 7101308*
- Zhang, L.**, see Yan, Z., *JPHOT April 2020 7000209*
- Zhang, L.**, see Wang, Y., *JPHOT April 2020 8400214*
- Zhang, L.**, see Guo, Y., *JPHOT April 2020 7100610*
- Zhang, L.**, see Chen, M., *JPHOT June 2020 7202014*
- Zhang, L.**, Xie, W., Feng, Y., Liu, Z., Zhou, H., Meng, Y., Bai, Y., Wei, W., and Dong, Y., Fourier and Inverse Fourier Transform Model for Delayed Self-interferometry System; *JPHOT June 2020 5501511*
- Zhang, L.**, Zeng, Z., Zhang, Y., Zhang, Z., Zhang, S., Ni, G., and Liu, Y., Frequency-Sweep-Range-Reconfigurable Complementary Linearly Chirped Microwave Waveform Pair Generation by Using a Fourier Domain Mode Locking Optoelectronic Oscillator Based on Stimulated Brillouin Scattering; *JPHOT June 2020 5501010*
- Zhang, L.**, Fu, X., and Yang, L., Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide; *JPHOT Oct. 2020 6601906*
- Zhang, L.**, see Zhang, L., *JPHOT Oct. 2020 6601906*
- Zhang, L.**, see Wen, L., *JPHOT Dec. 2020 1400208*
- Zhang, M.**, Zhang, J., Chen, A., and Song, Z., Vanadium Dioxide-Based Bifunctional Metamaterial for Terahertz Waves; *JPHOT Feb. 2020 4600109*
- Zhang, M.**, Li, B., and Tong, S., A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance; *JPHOT Dec. 2020 7906212*
- Zhang, M.**, see Luan, J., *JPHOT Dec. 2020 4601510*
- Zhang, P.**, see Huang, Y., *JPHOT June 2020 7101209*
- Zhang, Q.**, see Memon, K.A., *JPHOT Feb. 2020 7200408*
- Zhang, Q.**, Yu, H., Fu, Z., Wang, X., Xia, P., Cheng, Q., and Yang, J., Improving the Linearity of Silicon Ring Modulators by Manipulating the Photon Dynamics; *JPHOT April 2020 6600810*
- Zhang, Q.**, see Nazempour, R., *JPHOT Dec. 2020 4200107*
- Zhang, R.**, see Wang, H., *JPHOT Feb. 2020 6800606*
- Zhang, R.**, see Xu, F., *JPHOT Feb. 2020 2500107*
- Zhang, S.**, see He, X., *JPHOT Aug. 2020 2200410*
- Zhang, S.**, see Zhang, L., *JPHOT Aug. 2020 5501611*
- Zhang, S.**, see Shen, J., *JPHOT April 2020 1501908*
- Zhang, S.**, see Gao, F., *JPHOT April 2020 1400109*
- Zhang, S.**, see Zhang, L., *JPHOT June 2020 5501010*
- Zhang, S.**, see Gao, Z., *JPHOT Oct. 2020 6803115*
- Zhang, S.**, see Watanabe, A., *JPHOT Dec. 2020 4502108*
- Zhang, S.**, see Xin, Y., *JPHOT Dec. 2020 7103209*
- Zhang, T.**, see Cai, Y., *JPHOT Aug. 2020 7102508*
- Zhang, T.**, Xie, J., Dan, Y., Yu, S., Han, X., Dai, J., and Xu, K., Efficient Optical Spatial First-Order Differentiator Based on Graphene-Based Metalines and Evolutionary Algorithms; *JPHOT April 2020 4800210*
- Zhang, T.**, see Liao, S., *JPHOT Dec. 2020 7801513*
- Zhang, T.**, Wu, K., Xiang, J., Liu, S., and Chen, J., Corrections to “Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving” [Dec 20 Art. no. 5502512]; *JPHOT Dec. 2020 9700401*
- Zhang, T.**, Wu, K., Xiang, J., Liu, S., and Chen, J., Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving; *JPHOT Dec. 2020 5502512*
- Zhang, W.**, see Cai, Y., *JPHOT Aug. 2020 7102508*
- Zhang, W.**, see Hu, M., *JPHOT Aug. 2020 5900309*
- Zhang, W.**, see Zheng, Y., *JPHOT Aug. 2020 3200408*
- Zhang, W.**, Duran-Valdeiglesias, E., Alonso-Ramos, C., Serna, S., Le Roux, X., Vivien, L., and Cassan, E., Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule; *JPHOT Feb. 2020 2200108*
- Zhang, W.**, see Li, Y., *JPHOT Feb. 2020 6800308*
- Zhang, W.**, see Zhang, H., *JPHOT Feb. 2020 5500208*

- Zhang, W., *see* Zhang, H., *JPHOT Feb. 2020 5500208*
- Zhang, W., Lu, P., Ni, W., Xiong, W., Liu, D., and Zhang, J., Gold-Diaphragm Based Fabry-Perot Ultrasonic Sensor for Partial Discharge Detection and Localization; *JPHOT June 2020 6801612*
- Zhang, W., *see* Lv, B., *JPHOT Oct. 2020 4601410*
- Zhang, X., *see* Zhou, Y., *JPHOT Aug. 2020 1503106*
- Zhang, X., *see* Wang, F., *JPHOT Aug. 2020 1503408*
- Zhang, X., *see* Yang, H., *JPHOT Feb. 2020 6100208*
- Zhang, X., Chu, Y., Jiang, J., Liu, K., Fan, X., Xu, B., Jiang, L., Li, Y., and Liu, T., The Correction of Nonlinearity in Wavelength Scanning Based on Long-OPD Interferometer for Fiber Bragg Grating Demodulation in Environment With Variable Temperature; *JPHOT April 2020 7100410*
- Zhang, X., *see* Wang, C., *JPHOT April 2020 6801111*
- Zhang, X., *see* Nie, Y., *JPHOT April 2020 5300107*
- Zhang, X., *see* Zhao, Y., *JPHOT April 2020 6600509*
- Zhang, X., *see* Gao, F., *JPHOT April 2020 1400109*
- Zhang, X., *see* Huang, Y., *JPHOT June 2020 7101209*
- Zhang, X., Zhang, C., Zhu, M., Jin, W., Chen, C., Gao, X., and Qiu, K., SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs; *JPHOT June 2020 7903113*
- Zhang, X., *see* Wang, Y., *JPHOT Oct. 2020 7801108*
- Zhang, X., *see* Lv, B., *JPHOT Oct. 2020 4601410*
- Zhang, X., *see* Wang, F., *JPHOT Oct. 2020 9700101*
- Zhang, X., *see* Hou, F., *JPHOT Oct. 2020 6802709*
- Zhang, X., *see* Li, M., *JPHOT Dec. 2020 6803508*
- Zhang, X., *see* Wang, F., *JPHOT Dec. 2020 9700301*
- Zhang, X., *see* Wang, Y., *JPHOT Dec. 2020 3200712*
- Zhang, X., *see* Meng, X., *JPHOT Dec. 2020 5502909*
- Zhang, Y., *see* Shi, Y., *JPHOT Aug. 2020 7000814*
- Zhang, Y., *see* Zhang, L., *JPHOT Aug. 2020 5501611*
- Zhang, Y., *see* Zhang, L., *JPHOT Aug. 2020 5501611*
- Zhang, Y., *see* Zhu, H., *JPHOT Feb. 2020 6800214*
- Zhang, Y., *see* Li, Y., *JPHOT Feb. 2020 7900915*
- Zhang, Y., *see* Yin, D., *JPHOT April 2020 3900312*
- Zhang, Y., Li, Z., Chen, W., Liu, C., Shao, K., Zhu, D., and Pan, S., Broadband Image-Reject Mixing Based on a Polarization-Modulated Dual-Channel Photonic Microwave Phase Shifter; *JPHOT April 2020 7800409*
- Zhang, Y., *see* Liu, F., *JPHOT April 2020 1500910*
- Zhang, Y., *see* Zhang, J., *JPHOT April 2020 6900914*
- Zhang, Y., *see* Lei, H., *JPHOT April 2020 7901915*
- Zhang, Y., *see* Chu, C., *JPHOT June 2020 1600207*
- Zhang, Y., *see* Zhao, L., *JPHOT June 2020 5501111*
- Zhang, Y., *see* Zhang, L., *JPHOT June 2020 5501010*
- Zhang, Y., *see* Liu, B., *JPHOT Oct. 2020 3900817*
- Zhang, Y., Kang, J., Hsieh, C., and Liu, Q., Compressive Optical Spectrometry Based on Sequency-Ordered Hadamard Transform; *JPHOT Oct. 2020 3900908*
- Zhang, Y., *see* Xu, L., *JPHOT Oct. 2020 6803310*
- Zhang, Y., *see* Li, M., *JPHOT Dec. 2020 6803508*
- Zhang, Y., *see* Li, M., *JPHOT Dec. 2020 6803508*
- Zhang, Y., *see* Yuan, B., *JPHOT Dec. 2020 3030669*
- Zhang, Y., *see* Guo, J., *JPHOT Dec. 2020 7906815*
- Zhang, Y., *see* Meng, X., *JPHOT Dec. 2020 5502909*
- Zhang, Y., Hou, T., Chang, Q., Chang, H., Long, J., Ma, P., and Zhou, P., Propagation Properties of Gaussian Schell-Model Beam Array in the Jet Engine Exhaust Induced Turbulence; *JPHOT Dec. 2020 6501113*
- Zhang, Z., *see* He, Q., *JPHOT Aug. 2020 5501910*
- Zhang, Z., Gao, F., and Li, G., The Impact of Resonance on the Light Extraction Efficiency of Single Nanowire Ultraviolet Light Emitting Diodes; *JPHOT Aug. 2020 8200610*
- Zhang, Z., *see* Zhang, L., *JPHOT Aug. 2020 5501611*
- Zhang, Z., *see* Zhang, H., *JPHOT April 2020 6600210*
- Zhang, Z., *see* Chu, C., *JPHOT June 2020 1600207*
- Zhang, Z., *see* Zhang, L., *JPHOT June 2020 5501010*
- Zhang, Z., Liu, X., Wei, W., Ding, L., Tang, L., and Li, Y., The Simulation of Vortex Modes in Twisted Few-Mode Fiber With Inverse-Parabolic Index Profile; *JPHOT June 2020 7101908*
- Zhang, Z., *see* Gao, J., *JPHOT Oct. 2020 7905312*
- Zhang, Z., *see* Liu, C., *JPHOT Oct. 2020 8400312*
- Zhang, Z., *see* Lv, J., *JPHOT Oct. 2020 4501610*
- Zhang, Z., *see* Wang, J., *JPHOT Dec. 2020 5502708*
- Zhang, Z., *see* Cui, Y., *JPHOT Dec. 2020 1504413*
- Zhao, C., Chen, L., Xu, L., and Liu, L., Weak One-Dimensional Field Confinement Silica Waveguides; *JPHOT Aug. 2020 2200511*
- Zhao, C., *see* Yi, J., *JPHOT Feb. 2020 6100408*
- Zhao, C., *see* Zhang, J., *JPHOT Feb. 2020 6100307*
- Zhao, C., *see* Wang, Y., *JPHOT April 2020 8400214*
- Zhao, F., *see* Li, J.L., *JPHOT April 2020 5500708*
- Zhao, H., Wang, Y., and Wu, Y., Dynamic Responses of Cylindrical Whispering Gallery Mode Revealed by Axial Liquid Disturbance; *JPHOT June 2020 7102009*
- Zhao, J., *see* Zheng, Y., *JPHOT Aug. 2020 3200408*
- Zhao, J., *see* Yuan, F., *JPHOT Feb. 2020 7100109*
- Zhao, J., *see* Xu, Q., *JPHOT April 2020 6900807*
- Zhao, J., *see* Zhuang, Y., *JPHOT June 2020 7201707*
- Zhao, J., *see* han, S., *JPHOT June 2020 7201510*
- Zhao, L., *see* Hu, S., *JPHOT Aug. 2020 6100910*
- Zhao, L., *see* Yu, J., *JPHOT Feb. 2020 7900808*
- Zhao, L., Ding, X., Liu, J., Zhang, G., Yu, X., Liu, Y., Sun, B., Wang, J., Bai, Y., Jiang, G., Lei, P., Li, T., Wu, L., and Yao, J., Efficient and Tunable 1.6- μm MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO₄/YVO₄ Raman Laser; *JPHOT Feb. 2020 1500107*
- Zhao, L., *see* Li, Y., *JPHOT April 2020 7201111*
- Zhao, L., *see* Zhu, L., *JPHOT April 2020 6900614*
- Zhao, L., *see* Sun, B., *JPHOT April 2020 1501607*
- Zhao, L., *see* Sun, B., *JPHOT June 2020 1502310*
- Zhao, L., Jiang, T., Mao, M., Zhang, Y., Liu, H., Wei, Z., Deng, D., and Luo, A., Improve The Capacity Of Data Transmission In Orbital Angular Momentum Multiplexing By Adjusting Link Structure; *JPHOT June 2020 5501111*
- Zhao, M., *see* Su, X., *JPHOT Aug. 2020 7102114*
- Zhao, M., *see* Wang, K., *JPHOT June 2020 7201908*
- Zhao, Q., *see* Tao, X., *JPHOT Aug. 2020 4501308*
- Zhao, Q., *see* Yu, W., *JPHOT Oct. 2020 2700308*
- Zhao, Q., *see* Ma, X., *JPHOT Oct. 2020 3400217*
- Zhao, S., *see* Wang, L., *JPHOT June 2020 6901113*
- Zhao, W., *see* Cai, Y., *JPHOT Aug. 2020 7102508*
- Zhao, W., *see* Sun, T., *JPHOT Feb. 2020 8400112*
- Zhao, X., *see* Pan, J., *JPHOT April 2020 6800912*
- Zhao, X., *see* Liu, B., *JPHOT June 2020 3400112*
- Zhao, Y., *see* Kwon, K., *JPHOT Aug. 2020 3900714*
- Zhao, Y., *see* He, Q., *JPHOT Aug. 2020 5501910*
- Zhao, Y., *see* Han, L., *JPHOT April 2020 7101508*
- Zhao, Y., *see* Chen, H., *JPHOT April 2020 7901610*
- Zhao, Y., Chen, L., Hu, H., Zhang, C., and Zhang, X., Numerical Investigation of Parametric Frequency Dependence in the Modeling of Octave-Spanning Kerr Frequency Combs; *JPHOT April 2020 6600509*
- Zhao, Y., *see* Li, M., *JPHOT April 2020 7101414*
- Zhao, Y., *see* Kong, L., *JPHOT June 2020 3900512*
- Zhao, Y., *see* Wang, D., *JPHOT June 2020 7600307*
- Zhao, Y., *see* Yu, W., *JPHOT Oct. 2020 2700308*
- Zhao, Z., *see* Wang, W., *JPHOT Aug. 2020 4501108*
- Zhao, Z., *see* Ho, C.P., *JPHOT April 2020 6600307*
- Zhao, Z., *see* Wang, J., *JPHOT Dec. 2020 5502708*
- Zhao, Z., *see* Ying, Z., *JPHOT Dec. 2020 7801311*
- Zhao, Z., Corso, A.J., and Pelizzo, M.G., Nanowire Grid Reflecting Polarizers for Ultraviolet Applications; *JPHOT Dec. 2020 4502011*
- Zhao Zhao, *see* Tan, Q., *JPHOT April 2020 7902212*
- Zheng, A., *see* Chen, J., *JPHOT Oct. 2020 7905611*
- Zheng, D., *see* Liu, S., *JPHOT Feb. 2020 6900411*
- Zheng, D., Zhang, H., and Song, J., OFDM With Differential Index Modulation for Visible Light Communication; *JPHOT Feb. 2020 7900708*
- Zheng, D., Zhang, H., and Song, J., Spatial Multiplexing MIMO Visible Light Communications With Densely Distributed LEDs and PDs; *JPHOT Oct. 2020 7905807*

- Zheng, H.**, see Wang, Y., *JPHOT Aug. 2020 7903611*
- Zheng, H.**, see Chen, Y., *JPHOT Oct. 2020 6802513*
- Zheng, J.**, see Chen, Y., *JPHOT Aug. 2020 7904114*
- Zheng, J.**, see Yuan, B., *JPHOT Dec. 2020 3030669*
- Zheng, J.**, see Wang, C., *JPHOT Dec. 2020 5502411*
- Zheng, J.**, see Meng, X., *JPHOT Dec. 2020 5502909*
- Zheng, L.**, see Chen, H., *JPHOT June 2020 7902510*
- Zheng, L.**, see Liu, J., *JPHOT Dec. 2020 7103712*
- Zheng, P.**, see Zhang, H., *JPHOT Aug. 2020 7102213*
- Zheng, Y.**, Mao, D., He, Z., Lu, H., Zhang, W., and Zhao, J., Formation and Evolution of Soliton in Two-Mode Fiber Laser; *JPHOT Aug. 2020 3200408*
- Zheng, Y.**, see Peng, Z., *JPHOT Feb. 2020 8200108*
- Zheng, Y.**, see Wang, H., *JPHOT Feb. 2020 6800606*
- Zheng, Y.**, see Xu, F., *JPHOT Feb. 2020 2500107*
- Zheng, Z.**, see Xu, R., *JPHOT April 2020 1501708*
- Zhi, T.**, see Xu, F., *JPHOT Feb. 2020 2500107*
- Zhong, F.**, see Chen, C., *JPHOT June 2020 7000414*
- Zhong, H.**, see Chen, Y., *JPHOT Oct. 2020 7103109*
- Zhong, J.**, Zhou, J., Liu, W., and Qin, J., Orthogonal Time-Frequency Multiplexing With 2D Hermitian Symmetry for Optical-Wireless Communications; *JPHOT April 2020 7901110*
- Zhong, K.**, see Liu, K., *JPHOT Dec. 2020 2200910*
- Zhong, L.**, see Liu, S., *JPHOT Feb. 2020 6900411*
- Zhong, L.**, see Han, X., *JPHOT Dec. 2020 6901812*
- Zhong, Q.**, see Zhou, Y., *JPHOT June 2020 4500414*
- Zhong, X.**, see Wang, Y., *JPHOT Aug. 2020 5501710*
- Zhong, Y.**, Chen, L., Gan, W., and Liu, Y., Image Encryption System Based on Joint Transformation Correlation and Ptychography; *JPHOT April 2020 2400110*
- Zhong, Y.**, Cui, S., Lu, H., Ke, C., Wang, H., Jiang, P., and Liu, D., A Robust Reference Optical Spectrum Based in-Band OSNR Monitoring Method Suitable for Flexible Optical Networks; *JPHOT June 2020 7201310*
- Zhong, Z.**, see Jin, L., *JPHOT April 2020 1500806*
- Zhong, Z.**, see Sankoh, A., *JPHOT Oct. 2020 7905311*
- Zhou, C.**, see Lei, S., *JPHOT Aug. 2020 8200509*
- Zhou, C.**, see Yu, X., *JPHOT Aug. 2020 7904011*
- Zhou, D.**, see Jiang, T., *JPHOT Aug. 2020 7102607*
- Zhou, G.**, see Wu, M., *JPHOT June 2020 7101708*
- Zhou, G.**, Guo, Y., Lu, L., Chen, J., and Zhou, L., Ultra-Wideband Signal Generation Based on a Silicon Segmented Mach-Zehnder Modulator; *JPHOT Dec. 2020 5502615*
- Zhou, H.**, see Chen, Y., *JPHOT Aug. 2020 7904114*
- Zhou, H.**, see Peng, L., *JPHOT April 2020 5500608*
- Zhou, H.**, see Guo, Y., *JPHOT April 2020 7100610*
- Zhou, H.**, see Chen, M., *JPHOT June 2020 7202014*
- Zhou, H.**, see Zhang, L., *JPHOT June 2020 5501511*
- Zhou, J.**, see Zhong, J., *JPHOT April 2020 7901110*
- Zhou, J.**, see He, D., *JPHOT April 2020 3900113*
- Zhou, J.**, see Liang, W., *JPHOT Oct. 2020 7905707*
- Zhou, J.Y.**, see Shen, Z., *JPHOT Aug. 2020 4601010*
- Zhou, K.**, Cui, S., Tu, Y., and Liu, D., A Method to Reduce the Algorithm Complexity of the Single-Photodiode-per-Polarization Coherent Receiver; *JPHOT Feb. 2020 7100210*
- Zhou, K.**, see Tu, Y., *JPHOT April 2020 7901410*
- Zhou, K.**, Cui, S., Gu, Y., Tu, Y., Ke, C., and Liu, D., Design of the Real-Time Single-Photodiode Digital Coherent Receiver Suitable for Free Space Optical Communication; *JPHOT Oct. 2020 7905412*
- Zhou, L.**, see Wang, D., *JPHOT June 2020 7600307*
- Zhou, L.**, see Wang, X., *JPHOT June 2020 6600911*
- Zhou, L.**, see Zhou, G., *JPHOT Dec. 2020 5502615*
- Zhou, P.**, Wang, X., and He, Y., A Sub-kHz Narrow-Linewidth, and Hundred-mW High-Output-Power Silicon-Based Er Silicate Laser With Hybrid Pump and Signal Co-Resonant Cavity; *JPHOT Feb. 2020 1500212*
- Zhou, P.**, see Wu, H., *JPHOT April 2020 1500709*
- Zhou, P.**, Kong, L., Sun, X., and Xu, M., Three-dimensional Measurement of Specular Surfaces Based on the Light Field; *JPHOT Oct. 2020 6901613*
- Zhou, P.**, see Chen, Y., *JPHOT Dec. 2020 1504713*
- Zhou, P.**, see Zhang, Y., *JPHOT Dec. 2020 6501113*
- Zhou, R.**, see Chen, Y., *JPHOT Oct. 2020 7103109*
- Zhou, S.**, Sui, X., Hua, Y., Chen, Q., Gu, G., and Bai, H., Transmission Matrix Based Image Super-Resolution Reconstruction Through Scattering Media; *JPHOT June 2020 6901311*
- Zhou, T.**, see Wang, Y., *JPHOT Aug. 2020 5501710*
- Zhou, W.**, see Li, Y., *JPHOT April 2020 7201111*
- Zhou, W.**, see Wang, Y., *JPHOT Oct. 2020 7801108*
- Zhou, X.**, see Chen, H., *JPHOT June 2020 7902510*
- Zhou, X.**, Hao, H., Bi, M., Yang, G., and Hu, M., Multi-Wavelength SOA Fiber Laser With Ultra-Narrow Wavelength Spacing Based on NPR Effect; *JPHOT Oct. 2020 7202408*
- Zhou, Y.**, Zhang, X., Zhang, J., Huang, Y., Zeng, Y., Cui, J., Liu, Y., Ning, Y., and Wang, L., Tailored Transverse Mode Vertical-Cavity Surface-Emitting Laser: Hollow Laser Beam Emission through Circle Aperture; *JPHOT Aug. 2020 1503106*
- Zhou, Y.**, see Wang, J., *JPHOT Aug. 2020 6802114*
- Zhou, Y.**, see Xu, F., *JPHOT Feb. 2020 2500107*
- Zhou, Y.**, Hu, T., Li, Y., Li, N., Dong, Y., Li, D., Fu, Y.H., Zhong, Q., Xu, Z., Zhu, S., Lin, Q., and Singh, N., A Performance Study of Dielectric Metalens with Process-Induced Defects; *JPHOT June 2020 4500414*
- Zhou, Y.**, see Mao, X., *JPHOT Oct. 2020 5900408*
- Zhou, Z.**, Odedeji, T., Kelly, B., O'Carroll, J., Phelan, R., Darwazeh, I., and Liu, Z., Impact of Analog and Digital Pre-Emphasis on the Signal-to-Noise Ratio of Bandwidth-Limited Optical Transceivers; *JPHOT April 2020 7200712*
- Zhu, C.**, see Liu, F., *JPHOT April 2020 1500910*
- Zhu, D.**, see Zhang, Y., *JPHOT April 2020 7800409*
- Zhu, G.**, see Su, X., *JPHOT Aug. 2020 7102114*
- Zhu, H.**, Yu, L., Zhang, Y., Cheng, L., Zhu, Z., Song, J., Zhang, J., Luo, B., and Yang, K., Optimized Support Vector Machine Assisted BOTDA for Temperature Extraction With Accuracy Enhancement; *JPHOT Feb. 2020 6800214*
- Zhu, J.**, see Wang, L., *JPHOT June 2020 4600712*
- Zhu, J.**, see Mao, X., *JPHOT Oct. 2020 5900408*
- Zhu, L.**, Yang, P., Wen, L., Zhao, L., Guan, C., and Xu, B., An Image-Based Alignment Errors Correction Method for Segmented Fresnel Primary Mirror; *JPHOT April 2020 6900614*
- Zhu, M.**, see Zhang, X., *JPHOT June 2020 7903113*
- Zhu, N.**, see Sun, J., *JPHOT Aug. 2020 5502010*
- Zhu, N.**, see Sun, W., *JPHOT Feb. 2020 7800208*
- Zhu, R.**, see Wang, Y., *JPHOT June 2020 1502815*
- Zhu, R.**, see Tian, Y., *JPHOT Dec. 2020 7103507*
- Zhu, S.**, see Sun, J., *JPHOT Aug. 2020 5502010*
- Zhu, S.**, see Sun, W., *JPHOT Feb. 2020 7800208*
- Zhu, S.**, see Zhou, Y., *JPHOT June 2020 4500414*
- Zhu, T.**, see Bian, H., *JPHOT April 2020 6801009*
- Zhu, T.**, see Iroegbu, P.I., *JPHOT Oct. 2020 1503612*
- Zhu, W.**, see Liu, C., *JPHOT Oct. 2020 8400312*
- Zhu, X.**, Wang, G., Luo, X., Zhang, J., Liu, J., and Guo, X., Angular Color Uniformity Enhancement for Color-Mixed LEDs by Introducing a Diffusing Coating Layer; *JPHOT Aug. 2020 8200712*
- Zhu, Y.**, Sheng, Q., and Han, M., Effect of Laser Polarization on Fiber Bragg Grating Fabry-Perot Interferometer for Ultrasound Detection; *JPHOT Aug. 2020 7102408*
- Zhu, Y.**, see Shi, F., *JPHOT Aug. 2020 3700308*
- Zhu, Y.**, see Li, Y., *JPHOT Feb. 2020 7900915*
- Zhu, Y.**, see Zhang, D., *JPHOT June 2020 7902716*
- Zhu, Y.**, see Song, N., *JPHOT June 2020 7101806*
- Zhu, Y.**, see Shi, F., *JPHOT Oct. 2020 9700201*
- Zhu, Z.**, Xu, X., Sun, X., and Wang, X., Establishment and Solution for a Mathematical Model of Multiple Diffuse Reflection; *JPHOT Aug. 2020 6500917*
- Zhu, Z.**, see Zhu, H., *JPHOT Feb. 2020 6800214*
- Zhu, Z.**, see Wei, R., *JPHOT April 2020 3200208*
- Zhu, Z.**, Wu, C., Wang, J., Hu, K., and Chen, X., A Novel 3D Vector Decomposition for Color-Image Encryption; *JPHOT April 2020 7800614*
- Zhu, Z.**, see Zhang, D., *JPHOT June 2020 7902716*
- Zhu, Z.**, see Si-Ma, L., *JPHOT Dec. 2020 7907115*

Zhuang, S., see Tian, S., *JPHOT April 2020 4600309*
Zhuang, Y., Li, Q., Yang, Y., Meng, J., Zhao, J., and He, J., Transmission Distance Extension of Directly Modulated Tunable V-cavity Laser Using AWG Wavelength Detuning; *JPHOT June 2020 7201707*
Zhuang, Z., see Zhang, G., *JPHOT June 2020 7101008*
Zhuo, J., see Mao, X., *JPHOT Oct. 2020 5900408*
Zimmermann, A., see Yepez, P.A.K., *JPHOT April 2020 6800813*
Zitelli, M., see Niang, A., *JPHOT April 2020 6500308*
Zong, T., see Wen, H., *JPHOT Dec. 2020 7906010*
Zou, H., see Yu, H., *JPHOT April 2020 6801310*
Zou, P., see Chen, M., *JPHOT Feb. 2020 7900211*
Zou, W., see Qian, N., *JPHOT Oct. 2020 5502110*
Zou, X., see Liu, P., *JPHOT June 2020 5501210*
Zou, X., see Lu, X., *JPHOT June 2020 5500911*
Zou, X., see Feng, X., *JPHOT Oct. 2020 5502208*
Zu, J., see Gong, Q., *JPHOT June 2020 1502708*
Zubair, H., Begum, M., Moradi, F., Rahman, A.M., Mahdiraji, G.A., Oresgun, A., Louay, G., Omar, N.Y., Khandaker, M.U., Adikan, F.R.M., Noor, N.M., Almugren, K., Abdul-Rashid, H.A., and Bradley, D.A., Recent Advances in Silica Glass Optical Fiber for Dosimetry Applications; *JPHOT June 2020 6801525*
Zvanovec, S., see Vallejo, L., *JPHOT Feb. 2020 5500309*
Zvanovec, S., see Li, X., *JPHOT April 2020 7901014*
Zvanovec, S., see Bohata, J., *JPHOT June 2020 5501414*
Zvanovec, S., see Nguyen, D., *JPHOT Dec. 2020 5502814*

SUBJECT INDEX

Numeric

5G mobile communication

Atmospheric Turbulence Suppression Algorithm Based on APD Adaptive Gain Control for FSO Links of 5G Floating Base Stations. *Yu, X.*, +, *JPHOT Aug. 2020 7904011*
 Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz. *Vallejo, L.*, +, *JPHOT Feb. 2020 5500309*
 Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D.*, +, *JPHOT Dec. 2020 5502814*
 Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J.*, +, *JPHOT June 2020 5501414*

II-VI semiconductor

Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser. *Huang, H.*, +, *JPHOT June 2020 1503008*
 Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K.*, +, *JPHOT Oct. 2020 2200611*

III-V semiconductor

3D Simple Monte Carlo Statistical Model for GaAs Nanowire Single Photon Avalanche Diode. *Xie, S.*, +, *JPHOT Aug. 2020 6802008*
 450 nm Gallium Nitride Alternating Current Light-Emitting Diode. *Hartensveld, M.*, +, *JPHOT Dec. 2020 8200906*
 An Amorphous $(Al_{0.12}Ga_{0.88})_2O_3$ Deep Ultraviolet Photodetector. *Liu, S.*, +, *JPHOT Aug. 2020 6801908*
 Blue Laser Diode System With an Enhanced Wavelength Tuning Range. *Mukhtar, S.*, +, *JPHOT April 2020 1502110*
 Effects of Lateral Optical Confinement In GaN VCSELs With Double Dielectric DBRs. *Xu, R.*, +, *JPHOT April 2020 1501708*
 Electro-absorption and Electro-optic Characterization of L-Band InAs/InP Quantum-dash Waveguide. *Alkhazraji, E.*, +, *JPHOT June 2020 6601010*
 Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M.*, +, *JPHOT June 2020 8200408*

Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays. *Arvanitakis, G.N.*, +, *JPHOT April 2020 7901210*
 High-Efficiency Pulse Width Modulation-Based Wireless Laser Power Transmission Step-Down System. *Wang, Y.*, +, *JPHOT April 2020 8400214*
 High-Performance Semi-Polar InGaN/GaN Green Micro Light-Emitting Diodes. *Xu, F.*, +, *JPHOT Feb. 2020 2500107*
 High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D.*, +, *JPHOT Dec. 2020 1504612*
 Improved Performance of Passive-Matrix Micro-LED Displays Using a Multi-Function Passivation Structure. *Chen, P.*, +, *JPHOT Aug. 2020 7000711*
 Investigation of Enhanced Transmission and Beaming Effect Through an InSb Subwavelength Grating With a Slit at the Terahertz Range. *Liu, X.*, +, *JPHOT Feb. 2020 4800112*
 Light Extraction Efficiency of GaN-Based Micro-Scale Light-Emitting Diodes Investigated Using Finite-Difference Time-Domain Simulation. *Ryu, H.*, +, *JPHOT April 2020 1600110*
 Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y.*, +, *JPHOT April 2020 2400207*
 Nonmetallic Broadband Visible-Light Absorbers With Polarization and Incident Angle Insensitivity. *Yu, Y.*, +, *JPHOT Dec. 2020 2200807*
 On the Impact of Electron Leakage on the Efficiency Droop for AlGaIn Based Deep Ultraviolet Light Emitting Diodes. *Chu, C.*, +, *JPHOT June 2020 1600207*
 Optical Gain Characteristics of BGaAs/GaP Quantum Wells. *Maczko, H.S.*, +, *JPHOT Aug. 2020 6101013*
 Phase-Matched Mid-Infrared Difference Frequency Generation Using a Nanostructured Gallium Arsenide Metamaterial With Nanoholes. *Otman, N.A.*, +, *JPHOT June 2020 5900110*
 Polarization Enhanced GaN Avalanche Photodiodes With p-type $In_{0.05}Ga_{0.95}N$ Layer. *Wang, H.*, +, *JPHOT Feb. 2020 6800606*
 Temperature-Dependent Carrier Recombination and Efficiency Droop of AlGaIn Deep Ultraviolet Light-Emitting Diodes. *Peng, Z.*, +, *JPHOT Feb. 2020 8200108*
 Ultraviolet Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M.*, +, *JPHOT Oct. 2020 8200808*
 Vertical Second Harmonic Generation in Asymmetric Dielectric Nanoantennas. *Rocco, D.*, +, *JPHOT June 2020 4500507*

IV-VI semiconductor

Lead Sulfide Saturable Absorber Based Passively Mode-Locked Tm-Doped Fiber Laser. *Liu, F.*, +, *JPHOT April 2020 1500910*

A

Aberrations

Fast Aberrations Compensation in Digital Holographic Microscopy Based on Phase Transformation. *Deng, D.*, +, *JPHOT June 2020 6901409*
 Freeform Surface Graded Optimization of Deformable Mirrors in Integrated Zoom and Image Stabilization System Through Vectorial Ray Tracing and Image Point Freezing Method. *Ning, Y.*, +, *JPHOT Feb. 2020 6900316*
 Misalignment Calculation on Off-Axis Telescope System via Fully Connected Neural Network. *Liu, Z.*, +, *JPHOT Aug. 2020 0600112*
 Sequential Shift Absolute Phase Aberration Calibration in Digital Holographic Phase Imaging Based on Chebyshev Polynomials Fitting. *He, W.*, +, *JPHOT Feb. 2020 6900111*

AC-DC power converters

450 nm Gallium Nitride Alternating Current Light-Emitting Diode. *Hartensveld, M.*, +, *JPHOT Dec. 2020 8200906*

Acousto-optical devices

An Enhanced Distributed Acoustic Sensor With Large Temperature Tolerance Based on Ultra-Weak Fiber Bragg Grating Array. *Li, C.*, +, *JPHOT Aug. 2020 7202211*

Acousto-optical modulation

Carrier-Envelope Offset Frequency Stabilization of a Thin-Disk Laser Oscillator via Depletion Modulation. *Andrade, J.R.C.*, +, *JPHOT April 2020 1500609*

Adaptive control

A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M., +, JPHOT Dec. 2020 7906212*

Atmospheric Turbulence Suppression Algorithm Based on APD Adaptive Gain Control for FSO Links of 5G Floating Base Stations. *Yu, X., +, JPHOT Aug. 2020 7904011*

Adaptive equalizers

Adaptive Blind Stokes-Space Based Equalizer for RSOP in SV-DD Systems With High Chromatic Dispersion Tolerance. *Jin, Y., +, JPHOT April 2020 7200913*

Adaptive filters

EWT-ASG: Empirical Wavelet Transform With Adaptive Savitzky–Golay Filtering for TDLAS. *He, J., +, JPHOT June 2020 7800712*

Adaptive optics

Automated Optical Flow Based Registration for Adaptive Optics Scanning Laser Ophthalmoscope. *Chen, Y., +, JPHOT April 2020 3700109*

Measurement Approaches and Implementation of a Fading Characterization Tester for Evaluating Optical Turbulent Channels. *Li, Y., +, JPHOT Dec. 2020 7906915*

Optical Multi-Context Blind Scrubbing for Field Programmable Gate Arrays. *Takaki, Y., +, JPHOT Dec. 2020 7801411*

Agricultural products

Multiple Kinds of Pesticides Detection Based on Back-Propagation Neural Network Analysis of Fluorescence Spectra. *Bian, H., +, JPHOT April 2020 6801009*

Agrochemicals

Multiple Kinds of Pesticides Detection Based on Back-Propagation Neural Network Analysis of Fluorescence Spectra. *Bian, H., +, JPHOT April 2020 6801009*

Algebra

Establishment and Solution for a Mathematical Model of Multiple Diffuse Reflection. *Zhu, Z., +, JPHOT Aug. 2020 6500917*

Alumina

450 nm Gallium Nitride Alternating Current Light-Emitting Diode. *Hartensveld, M., +, JPHOT Dec. 2020 8200906*

A Mid-Infrared Dual-Band Filter With Ultra-High Resolving Power. *He, X., +, JPHOT Aug. 2020 2200410*

Sidewall Profile Dependent Nanostructured Ultrathin Solar Cells With Enhanced Light Trapping Capabilities. *Sun, T., +, JPHOT Feb. 2020 8400112*

Aluminum compounds

An Amorphous $(\text{Al}_{0.12}\text{Ga}_{0.88})_2\text{O}_3$ Deep Ultraviolet Photodetector. *Liu, S., +, JPHOT Aug. 2020 6801908*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*

On the Impact of Electron Leakage on the Efficiency Droop for AlGaIn Based Deep Ultraviolet Light Emitting Diodes. *Chu, C., +, JPHOT June 2020 1600207*

Polarization Enhanced GaN Avalanche Photodiodes With p-type $\text{In}_{0.05}\text{Ga}_{0.95}\text{N}$ Layer. *Wang, H., +, JPHOT Feb. 2020 6800606*

Temperature-Dependent Carrier Recombination and Efficiency Droop of AlGaIn Deep Ultraviolet Light-Emitting Diodes. *Peng, Z., +, JPHOT Feb. 2020 8200108*

Ultraviolet Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M., +, JPHOT Oct. 2020 8200808*

Vertical Second Harmonic Generation in Asymmetric Dielectric Nanoantennas. *Rocco, D., +, JPHOT June 2020 4500507*

Amorphous semiconductors

A Performance Study of Dielectric Metalens with Process-Induced Defects. *Zhou, Y., +, JPHOT June 2020 4500414*

Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L., +, JPHOT Oct. 2020 6601906*

Amplify and forward communication

Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas. *Miglani, R., +, JPHOT Aug. 2020 7904621*

On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference. *Erdogan, E., +, JPHOT Feb. 2020 7900313*

Amplitude modulation

Automated Adaptation and Stabilization of a Tunable WDM Polarization-Independent Receiver on Active Silicon Photonic Platform. *Ma, M., +, JPHOT Aug. 2020 4900411*

Should Analogue Pre-Equalisers be Avoided in VLC Systems?. *Li, X., +, JPHOT April 2020 7901014*

Amplitude shift keying

56 Gbit/s OOK Signal in C-band Over 20 km Dispersion-Uncompensated Link Transmission With Receiver-Side EDC Algorithm. *Liang, W., +, JPHOT Oct. 2020 7905707*

A Novel Method for Constructing VLC Equalizer With Active-Passive Hybrid Network. *Min, C., +, JPHOT April 2020 7500310*

Automated Adaptation and Stabilization of a Tunable WDM Polarization-Independent Receiver on Active Silicon Photonic Platform. *Ma, M., +, JPHOT Aug. 2020 4900411*

Diffused-Line-of-Sight Communication for Mobile and Fixed Underwater Nodes. *Guo, Y., +, JPHOT Dec. 2020 7906413*

Enhancement of SOA-Based Scintillation Mitigation by PS-OOK Transmission in FSO Communication. *Hong, Y., +, JPHOT Aug. 2020 7903510*

Generalized Likelihood Block Detection for SPAD-Based Underwater VLC System. *Ji, Y., +, JPHOT Feb. 2020 7900510*

Photonic Approach for Generation and Fast Switching of Binary Digitally Modulated RF Signals. *Feng, X., +, JPHOT Oct. 2020 5502208*

Toward Long-Distance Underwater Wireless Optical Communication Based on A High-Sensitivity Single Photon Avalanche Diode. *Chen, H., +, JPHOT June 2020 7902510*

Ultra-Wideband Signal Generation Based on a Silicon Segmented Mach-Zehnder Modulator. *Zhou, G., +, JPHOT Dec. 2020 5502615*

Analogue-digital conversion

Broadband Photonic Down-Conversion Preprocessor for ADC With Arcsine Equalization. *Guo, R., +, JPHOT June 2020 5501316*

Influence of the Demultiplexer on Channel-Interleaved Photonic Analogue-to-Digital Converters. *Qian, N., +, JPHOT Oct. 2020 5502110*

Angular measurement

Tapered Polymer Fiber Inclinerometers. *Lee, C., +, JPHOT June 2020 7100910*

Angular momentum

Broadband High-Efficiency Electromagnetic Orbital Angular Momentum Beam Generation Based on a Dielectric Metasurface. *Lin, Z., +, JPHOT June 2020 4600611*

CNN-Based Phase Matching for the OAM Mode Selection in Turbulence Heterodyne Coherent Mitigation Links. *Yang, C., +, JPHOT Dec. 2020 7905913*

Hybrid Angular Gradient Phase Grating for Measuring the Orbital Angular Momentum of Perfect Optical Vortex Beams. *Chu, C., +, JPHOT June 2020 7902409*

Improve The Capacity Of Data Transmission In Orbital Angular Momentum Multiplexing By Adjusting Link Structure. *Zhao, L., +, JPHOT June 2020 5501111*

Lommel-Gaussian Pulsed Beams Carrying Orbital Angular Momentum Propagation in Asymmetric Oceanic Turbulence. *Li, Y., +, JPHOT Feb. 2020 7900915*

Modeling and Optimization of Vortex Modes Propagation in Rectangular Dielectric Waveguides. *Lyubopytov, V.S., +, JPHOT Feb. 2020 6100117*

Orbital Angular Momentum (OAM) Mode Mixing in a Bent Step Index Fiber in Perturbation Theory: Multiple Bends. *Bhandari, R., JPHOT April 2020 7200510*

Stable Excitation of Orbital Angular Momentum States in Air-Core Fiber Seeded by an Integrated Optical Vortex Beam Emitter. *Wang, J., +, JPHOT Aug. 2020 6601408*

- Terahertz Reconfigurable Metasurface for Dynamic Non-Diffractive Orbital Angular Momentum Beams using Vanadium Dioxide. *Wang, L., +, JPHOT June 2020 4600712*
- The Simulation of Vortex Modes in Twisted Few-Mode Fiber With Inverse-Parabolic Index Profile. *Zhang, Z., +, JPHOT June 2020 7101908*
- Annealing**
- Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits. *Yu, X., +, JPHOT Oct. 2020 2200708*
- Enhancement of Tetrahedral Chromium (Cr⁴⁺) Concentration for High-Gain in Single-Mode Crystalline Core Fibers. *Liu, C., +, JPHOT April 2020 7200811*
- Anodes**
- Simulation of the Electrostatic Distribution in the Proximity Focusing Structure of an EBCMOS. *Wang, W., +, JPHOT June 2020 6901210*
- Antenna arrays**
- Multi-Antenna GNSS-Over-Fiber Architecture for Extensive Remote Multi-Baseline Network. *Liu, P., +, JPHOT June 2020 5501210*
- Antenna phased arrays**
- Phase Calibration of On-Chip Optical Phased Arrays via Interference Technique. *Zhang, H., +, JPHOT April 2020 6600210*
- Antenna radiation patterns**
- Vertical Second Harmonic Generation in Asymmetric Dielectric Nanoantennas. *Rocco, D., +, JPHOT June 2020 4500507*
- Antimony**
- Broadband Passive Photonic Diodes With the Saturable Absorption in Antimony Thin Film. *Zhang, J., +, JPHOT Feb. 2020 6100307*
- Antimony compounds**
- Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides. *Zhang, B., +, JPHOT April 2020 6600610*
- Switchable Quarter-Wave Plate and Half-Wave Plate Based on Phase-Change Metasurface. *Li, Y., +, JPHOT April 2020 4600410*
- Antireflection coatings**
- Tapered Polymer Fiber Inclometers. *Lee, C., +, JPHOT June 2020 7100910*
- Arrayed waveguide gratings**
- Integrated Optical Delay Line Based on a Loopback Arrayed Waveguide Grating for Radio-frequency Filtering. *Wang, X., +, JPHOT June 2020 6600911*
- Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μ m Wavelength Band. *Liu, Y., +, JPHOT Aug. 2020 4900308*
- Transmission Distance Extension of Directly Modulated Tunable V-cavity Laser Using AWG Wavelength Detuning. *Zhuang, Y., +, JPHOT June 2020 7201707*
- Astronomical telescopes**
- Misalignment Calculation on Off-Axis Telescope System via Fully Connected Neural Network. *Liu, Z., +, JPHOT Aug. 2020 0600112*
- Tip/tilt Alignment for a Fizeau Interferometer via Defocus-Based Sub-Spot Separation. *Lv, W., +, JPHOT Dec. 2020 3901113*
- Atmospheric light propagation**
- CNN-Based Phase Matching for the OAM Mode Selection in Turbulence Heterodyne Coherent Mitigation Links. *Yang, C., +, JPHOT Dec. 2020 7905913*
- Atmospheric turbulence**
- Atmospheric Turbulence Suppression Algorithm Based on APD Adaptive Gain Control for FSO Links of 5G Floating Base Stations. *Yu, X., +, JPHOT Aug. 2020 7904011*
- CNN-Based Phase Matching for the OAM Mode Selection in Turbulence Heterodyne Coherent Mitigation Links. *Yang, C., +, JPHOT Dec. 2020 7905913*
- Design and Investigation of 10 Gb/s FSO Wiretap Channel Using OCDMA Time-Diversity Reception. *Ji, J., +, JPHOT June 2020 7903212*
- Enhancement of SOA-Based Scintillation Mitigation by PS-OOK Transmission in FSO Communication. *Hong, Y., +, JPHOT Aug. 2020 7903510*
- Enhancing Secrecy Capacity in FSO Links via MISO Systems Through Turbulence-Induced Fading Channels With Misalignment Errors. *Boluda-Ruiz, R., +, JPHOT Aug. 2020 7903313*
- Free-Space Communication Turbulence Compensation by Optical Phase Conjugation. *Chen, J., +, JPHOT Oct. 2020 7905611*
- Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz. *Vallejo, L., +, JPHOT Feb. 2020 5500309*
- Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D., +, JPHOT Dec. 2020 5502814*
- Atom optics**
- Optical-Stark Induced Distortions in Vortex Momentum Distributions of p-Orbital Electrons of Neon Atoms. *He, Y., +, JPHOT Dec. 2020 6101209*
- Atomic clocks**
- A Dual-Frequency Faraday Laser. *Shi, T., +, JPHOT Aug. 2020 1503211*
- Attenuation**
- Investigation of the Radiation Effect on BOTDR Under Low Space Radiation Doses. *Li, M., +, JPHOT Dec. 2020 6803508*
- Auger effect**
- Temperature-Dependent Carrier Recombination and Efficiency Droop of AlGaIn Deep Ultraviolet Light-Emitting Diodes. *Peng, Z., +, JPHOT Feb. 2020 8200108*
- Augmented reality**
- Surface Micro-Reflector Array for Augmented Reality Display. *Yan, Z., +, JPHOT April 2020 7000209*
- Avalanche breakdown**
- 3D Simple Monte Carlo Statistical Model for GaAs Nanowire Single Photon Avalanche Diode. *Xie, S., +, JPHOT Aug. 2020 6802008*
- Design and Measurement of Ring-Gate Single Photon Avalanche Diode With Low Dark Count Rate. *Wang, Y., +, JPHOT June 2020 6801711*
- Avalanche photodiodes**
- 3D Simple Monte Carlo Statistical Model for GaAs Nanowire Single Photon Avalanche Diode. *Xie, S., +, JPHOT Aug. 2020 6802008*
- A Compact High-Speed Active Quenching and Recharging Circuit for SPAD Detectors. *Xu, Y., +, JPHOT Oct. 2020 6803208*
- Atmospheric Turbulence Suppression Algorithm Based on APD Adaptive Gain Control for FSO Links of 5G Floating Base Stations. *Yu, X., +, JPHOT Aug. 2020 7904011*
- Design and Measurement of Ring-Gate Single Photon Avalanche Diode With Low Dark Count Rate. *Wang, Y., +, JPHOT June 2020 6801711*
- Dual Gm-APD Polarization Lidar to Acquire the Depth Image of Shallow Semitransparent Media With a Wide Laser Pulse. *Xu, L., +, JPHOT Oct. 2020 6803310*
- Generalized Likelihood Block Detection for SPAD-Based Underwater VLC System. *Ji, Y., +, JPHOT Feb. 2020 7900510*
- High Detection Rate Fast-Gated CMOS Single-Photon Avalanche Diode Module. *Renna, M., +, JPHOT Oct. 2020 6802312*
- Polarization Enhanced GaN Avalanche Photodiodes With p-type In_{0.05}Ga_{0.95}N Layer. *Wang, H., +, JPHOT Feb. 2020 6800606*
- Toward Long-Distance Underwater Wireless Optical Communication Based on A High-Sensitivity Single Photon Avalanche Diode. *Chen, H., +, JPHOT June 2020 7902510*
- AWGN channels**
- OFDM With Differential Index Modulation for Visible Light Communication. *Zheng, D., +, JPHOT Feb. 2020 7900708*

B

Backpropagation

- A Raman-Pumped Dispersion and Nonlinearity Compensating Fiber For Fiber Optic Communications. *Bidaki, E., +, JPHOT Feb. 2020 7200117*
- Machine-Learning Assisted Prediction of Spectral Power Distribution for Full-Spectrum White Light-Emitting Diode. *Fan, J., +, JPHOT Feb. 2020 8200218*
- Multiple Kinds of Pesticides Detection Based on Back-Propagation Neural Network Analysis of Fluorescence Spectra. *Bian, H., +, JPHOT April 2020 6801009*

Backscatter

- 1310 nm Narrow Linewidth Laser Assisted by the Feedback of Double-FBGs. *Iroegbu, P.I., +, JPHOT Oct. 2020 1503612*

Band-pass filters

- A Mid-Infrared Dual-Band Filter With Ultra-High Resolving Power. *He, X., +, JPHOT Aug. 2020 2200410*

- A Multipurpose and Highly-Compact Plasmonic Filter Based on Metal-Insulator-Metal Waveguides. *Ebadi, S.M., +, JPHOT June 2020 4800309*
- Circular Airy Beam Based on Bandpass Filter. *Sun, X., +, JPHOT Feb. 2020 6100508*
- Dual-Channel Phase-Tunable Down Converter With LO Frequency Doubling. *Wang, Y., +, JPHOT Aug. 2020 5501710*
- Frequency-Sweep-Range-Reconfigurable Complementary Linearly Chirped Microwave Waveform Pair Generation by Using a Fourier Domain Mode Locking Optoelectronic Oscillator Based on Stimulated Brillouin Scattering. *Zhang, L., +, JPHOT June 2020 5501010*
- Simple and Flexible All-Optical Microwave Photonic Frequency Converter Based on Stimulated Brillouin Scattering Effect. *Wang, Y., +, JPHOT Oct. 2020 7801108*
- Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V., +, JPHOT Oct. 2020 4800913*
- Wide-Range Tunable Narrow Band-Stop Filter Based on Bilayer Graphene in the Mid-Infrared Region. *Wang, Y., +, JPHOT Aug. 2020 7801009*
- Band-stop filters**
- Tunable Germanium-on-Insulator Band-Stop Optical Filter Using Thermo-Optic Effect. *Ho, C.P., +, JPHOT April 2020 6600307*
- Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V., +, JPHOT Oct. 2020 4800913*
- Wide-Range Tunable Narrow Band-Stop Filter Based on Bilayer Graphene in the Mid-Infrared Region. *Wang, Y., +, JPHOT Aug. 2020 7801009*
- Bandwidth allocation**
- Traffic-Adaptive Inter Wavelength Load Balancing for TWDM PON. *Memon, K.A., +, JPHOT Feb. 2020 7200408*
- Beam handling techniques**
- Atmospheric Turbulence Suppression Algorithm Based on APD Adaptive Gain Control for FSO Links of 5G Floating Base Stations. *Yu, X., +, JPHOT Aug. 2020 7904011*
- Beam steering**
- A Design Method of Optical Phased Array With Insufficient Phase Tuning Range. *Yang, B., +, JPHOT April 2020 6600409*
- A Hybrid Algorithm for Multi-Beam Steering of LCOS-Based Wavelength Selective Switch. *Gao, Y., +, JPHOT June 2020 7903011*
- Backward-Emitting Silicon Nitride Optical Phased Array Enabling Efficient Wavelength-Tuned Beam Steering. *Im, C., +, JPHOT Oct. 2020 6601910*
- Phase Calibration of On-Chip Optical Phased Arrays via Interference Technique. *Zhang, H., +, JPHOT April 2020 6600210*
- Temperature Dependence of the Steering Angles of a Silicon Photonic Optical Phased Array. *Yepez, P.A.K., +, JPHOT April 2020 6800813*
- Bending**
- Mode Division Multiplexing Based on Supermodes in Densely Packed Uniform Waveguide Array (DPUWA). *Chen, K., +, JPHOT April 2020 7901810*
- Orbital Angular Momentum (OAM) Mode Mixing in a Bent Step Index Fiber in Perturbation Theory: Multiple Bends. *Bhandari, R., JPHOT April 2020 7200510*
- Polarization Coupling of X-Cut Thin Film Lithium Niobate Based Waveguides. *Wang, J., +, JPHOT June 2020 2200310*
- Research on Three-Dimensional Magnetic Induced Error Model of Interferometric Fiber Optic Gyro. *Wang, Z., +, JPHOT Oct. 2020 6802412*
- Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V., +, JPHOT Oct. 2020 4800913*
- Bifurcation**
- Networked Chaotic Map Model and Its Applications in Color Multiple Image Encryption. *Sum, Y., +, JPHOT Oct. 2020 7801218*
- Stability Analysis and Transient Attraction Dynamics of Flat-Top Solitons via Modulated Driving Fields in Normal Dispersion Microcavity. *Jin, X., +, JPHOT Oct. 2020 1503915*
- Binary sequences**
- A Novel Hybrid Secure Method Based on DNA Encoding Encryption and Spiral Scrambling in Chaotic OFDM-PON. *Xiao, Y., +, JPHOT June 2020 7201215*
- Broadband Microwave Spectrum Sensing Based on Photonic RF Channelization and Compressive Sampling. *Yang, B., +, JPHOT Feb. 2020 5500109*
- Bio-optics**
- Towards Non-Contact Glucose Sensing in Aqueous Turbid Medium at 1.1 Meters Distance. *Piao, D., +, JPHOT Aug. 2020 3700523*
- Biochemistry**
- Corrections to “Excitation of Mitochondria-Endoplasmic Reticulum Ca²⁺ Coupling by Femtosecond-Laser Photostimulation” [Aug 20 Art. no. 3700308]. *Shi, F., +, JPHOT Oct. 2020 9700201*
- Excitation of mitochondria-Endoplasmic reticulum Ca²⁺ coupling by femtosecond-Laser photostimulation. *Shi, F., +, JPHOT Aug. 2020 3700308*
- Biocomputing**
- A Novel Hybrid Secure Method Based on DNA Encoding Encryption and Spiral Scrambling in Chaotic OFDM-PON. *Xiao, Y., +, JPHOT June 2020 7201215*
- Biodiffusion**
- Excitation of mitochondria-Endoplasmic reticulum Ca²⁺ coupling by femtosecond-Laser photostimulation. *Shi, F., +, JPHOT Aug. 2020 3700308*
- Bioelectric phenomena**
- Excitation of mitochondria-Endoplasmic reticulum Ca²⁺ coupling by femtosecond-Laser photostimulation. *Shi, F., +, JPHOT Aug. 2020 3700308*
- Bioelectric potentials**
- Excitation of mitochondria-Endoplasmic reticulum Ca²⁺ coupling by femtosecond-Laser photostimulation. *Shi, F., +, JPHOT Aug. 2020 3700308*
- Biological techniques**
- Quantitative Phase Imaging During Cell Division Based on Dual-Channel Microscopic Interferometry System. *Liu, S., +, JPHOT Feb. 2020 6900411*
- Biomedical communication**
- Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas. *Miglani, R., +, JPHOT Aug. 2020 7904621*
- Biomedical equipment**
- Towards Non-Contact Glucose Sensing in Aqueous Turbid Medium at 1.1 Meters Distance. *Piao, D., +, JPHOT Aug. 2020 3700523*
- Biomedical materials**
- Recent Advances in Silica Glass Optical Fiber for Dosimetry Applications. *Zubair, H., +, JPHOT June 2020 6801525*
- Biomedical optical imaging**
- Automated Optical Flow Based Registration for Adaptive Optics Scanning Laser Ophthalmoscope. *Chen, Y., +, JPHOT April 2020 3700109*
- High-Throughput Deep Learning Microscopy Using Multi-Angle Super-Resolution. *Zhang, J., +, JPHOT April 2020 6900914*
- Non-Invasive Optical Screening of *Streptococcus Pneumonia* Based Inflammatory Changes of the Tympanic Membrane and Mastoid Mucosa in Guinea Pig Otitis Media Using Optical Coherence Tomography. *Wijesinghe, R.E., +, JPHOT Aug. 2020 3700611*
- Real-Time Thermoacoustic Imaging-Guidance for Breast Tumor Resection. *Qin, H., +, JPHOT June 2020 3700207*
- Restoration of Out-of-Focus Fluorescence Microscopy Images Using Learning-Based Depth-Variant Deconvolution. *He, D., +, JPHOT April 2020 3900113*
- Robust Imaging Photoplethysmography in Long-Distance Motion. *Kong, L., +, JPHOT June 2020 3900512*
- Systematic Analysis for fNIRS Measurement Combining Sensitivity and SNR Based on the Colin27 Brain Template. *Wang, Y., +, JPHOT Aug. 2020 3700413*
- Biomembrane transport**
- Excitation of mitochondria-Endoplasmic reticulum Ca²⁺ coupling by femtosecond-Laser photostimulation. *Shi, F., +, JPHOT Aug. 2020 3700308*
- Biomembranes**
- Non-Invasive Optical Screening of *Streptococcus Pneumonia* Based Inflammatory Changes of the Tympanic Membrane and Mastoid Mucosa in Guinea Pig Otitis Media Using Optical Coherence Tomography. *Wijesinghe, R.E., +, JPHOT Aug. 2020 3700611*
- Biomolecular electronics**
- Nanoscale Optical Logic Circuits by Single-Step FRET. *Inoue, J., +, JPHOT April 2020 6500112*

Biophotonics

Corrections to “Excitation of Mitochondria-Endoplasmic Reticulum Ca^{2+} Coupling by Femtosecond-Laser Photostimulation” [Aug 20 Art. no. 3700308]. *Shi, F.*, +, *JPHOT Oct. 2020 9700201*

Biosensors

Employing Higher Order Cladding Modes of Fiber Bragg Grating for Analysis of Refractive Index Change in Volume and at the Surface. *Bandyopadhyay, S.*, +, *JPHOT Feb. 2020 7100313*

High Sensitivity Terahertz Biosensor Based on Goos-Hänchen Effect in Graphene. *Liu, J.*, +, *JPHOT April 2020 6801206*

Biothermics

Real-Time Thermoacoustic Imaging-Guidance for Breast Tumor Resection. *Qin, H.*, +, *JPHOT June 2020 3700207*

Birefringence

A Surface Plasmon Resonance Temperature Sensing Unit Based on a Graphene Oxide Composite Photonic Crystal Fiber. *Liang, H.*, +, *JPHOT June 2020 7201811*

Distributed Birefringence Measurement of a Polarization-Maintaining Fiber With an Extended Range Based on an Enhanced Brillouin Dynamic Grating. *Jiang, T.*, +, *JPHOT Aug. 2020 7102607*

Effect of Laser Polarization on Fiber Bragg Grating Fabry-Perot Interferometer for Ultrasound Detection. *Zhu, Y.*, +, *JPHOT Aug. 2020 7102408*

Highly Birefringent, Low-Loss, and Near-Zero Flat Dispersion ENZ Based THz Photonic Crystal Fibers. *Hossain, M.S.*, +, *JPHOT June 2020 7202109*

Orthogonal Phase Demodulation of Optical Fiber Fabry-Perot Interferometer Based on Birefringent Crystals and Polarization Technology. *Huang, Y.*, +, *JPHOT June 2020 7101209*

Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays. *Wang, Z.*, +, *JPHOT June 2020 4800410*

RF Interferometry Measurement of Beat Length in Polarization-Maintaining Fiber. *Peng, L.*, +, *JPHOT April 2020 5500608*

Bit error rate

Measurement Approaches and Implementation of a Fading Characterization Tester for Evaluating Optical Turbulent Channels. *Li, Y.*, +, *JPHOT Dec. 2020 7906915*

Blind source separation

ANN-Assisted Real-Time Blind Signal Detection Over Time-Varying Doubly-Stochastic Poisson Channel for Indoor Optical Wireless Communications. *Arya, S.*, +, *JPHOT Oct. 2020 7904918*

Block codes

Generalized Likelihood Block Detection for SPAD-Based Underwater VLC System. *Ji, Y.*, +, *JPHOT Feb. 2020 7900510*

Blood

Robust Imaging Photoplethysmography in Long-Distance Motion. *Kong, L.*, +, *JPHOT June 2020 3900512*

Boron compounds

Optical Gain Characteristics of BGAs/GaP Quantum Wells. *Maczko, H.S.*, +, *JPHOT Aug. 2020 6101013*

Bound states

Nonlinear Bound States in the Continuum of Etchless Lithium Niobate Metasurfaces. *Yang, Q.*, +, *JPHOT Oct. 2020 4601209*

Resonant Excitation Analysis on Asymmetrical Lateral Leakage of Light in Finite Zero-Contrast Grating Mirror. *Sang, T.*, +, *JPHOT April 2020 4500111*

Brachytherapy

Recent Advances in Silica Glass Optical Fiber for Dosimetry Applications. *Zubair, H.*, +, *JPHOT June 2020 6801525*

Bragg gratings

1310 nm Narrow Linewidth Laser Assisted by the Feedback of Double-FBGs. *Iroegbu, P.I.*, +, *JPHOT Oct. 2020 1503612*

A Monolithic Integrated Dual-Wavelength DFB Laser With Equivalent Inverse-Gaussian Apodized Grating. *Yuan, B.*, +, *JPHOT Dec. 2020 3030669*

An Enhanced Distributed Acoustic Sensor With Large Temperature Tolerance Based on Ultra-Weak Fiber Bragg Grating Array. *Li, C.*, +, *JPHOT Aug. 2020 7202211*

Effect of Laser Polarization on Fiber Bragg Grating Fabry-Perot Interferometer for Ultrasound Detection. *Zhu, Y.*, +, *JPHOT Aug. 2020 7102408*

Employing Higher Order Cladding Modes of Fiber Bragg Grating for Analysis of Refractive Index Change in Volume and at the Surface. *Bandyopadhyay, S.*, +, *JPHOT Feb. 2020 7100313*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D.*, +, *JPHOT Dec. 2020 1504612*

Highly Sensitive FBG Strain Sensor With Enhanced Measurement Range Based On Higher Order FWM. *Ghosh, C.*, +, *JPHOT Feb. 2020 6800407*

Tapered Polymer Fiber Inclometers. *Lee, C.*, +, *JPHOT June 2020 7100910*

The Correction of Nonlinearity in Wavelength Scanning Based on Long-OPD Interferometer for Fiber Bragg Grating Demodulation in Environment With Variable Temperature. *Zhang, X.*, +, *JPHOT April 2020 7100410*

Tunable Electromagnetically Induced Transparency-Like Spectrum in Lithium Niobate on Insulator Platform With Narrow Linewidth. *Yu, W.*, +, *JPHOT Oct. 2020 2700308*

Ultrafine Frequency Linearly Tunable Single-Frequency Fiber Laser Based on Intracavity Active Tuning. *Jin, L.*, +, *JPHOT April 2020 1500806*

Ultrahigh-Resolution Fiber-Optic Sensing Based on High-Finesse, Meter-Long Fiber Fabry-Perot Resonators. *Hoque, N.M.R.*, +, *JPHOT June 2020 7101109*

Brain

Systematic Analysis for fNIRS Measurement Combining Sensitivity and SNR Based on the Colin27 Brain Template. *Wang, Y.*, +, *JPHOT Aug. 2020 3700413*

Brightness

Improved Performance of Passive-Matrix Micro-LED Displays Using a Multi-Function Passivation Structure. *Chen, P.*, +, *JPHOT Aug. 2020 7000711*

Influence of Display Luminance on Visual Discomfort in Dark Ambient Based on Haemodynamic Response. *Shi, Y.*, +, *JPHOT Aug. 2020 7000814*

Stacked Encapsulation Structure for Discretely Distributed Quantum Dot Array. *Cai, J.*, +, *JPHOT April 2020 7000310*

Brillouin spectra

Distributed Birefringence Measurement of a Polarization-Maintaining Fiber With an Extended Range Based on an Enhanced Brillouin Dynamic Grating. *Jiang, T.*, +, *JPHOT Aug. 2020 7102607*

Optimized Support Vector Machine Assisted BOTDA for Temperature Extraction With Accuracy Enhancement. *Zhu, H.*, +, *JPHOT Feb. 2020 6800214*

Broadband networks

Broadband Microwave Spectrum Sensing Based on Photonic RF Channelization and Compressive Sampling. *Yang, B.*, +, *JPHOT Feb. 2020 5500109*

C**Calcium**

Corrections to “Excitation of Mitochondria-Endoplasmic Reticulum Ca^{2+} Coupling by Femtosecond-Laser Photostimulation” [Aug 20 Art. no. 3700308]. *Shi, F.*, +, *JPHOT Oct. 2020 9700201*

Excitation of mitochondria-Endoplasmic reticulum Ca^{2+} coupling by femtosecond-Laser photostimulation. *Shi, F.*, +, *JPHOT Aug. 2020 3700308*

Calibration

Sequential Shift Absolute Phase Aberration Calibration in Digital Holographic Phase Imaging Based on Chebyshev Polynomials Fitting. *He, W.*, +, *JPHOT Feb. 2020 6900111*

Cameras

Convolutional Neural Network Training for RGBN Camera Color Restoration Using Generated Image Pairs. *Han, Z.*, +, *JPHOT Oct. 2020 6802815*

Dynamic Physical-Layer Secured Link in a Mobile MIMO VLC System. *Younus, O.I.*, +, *JPHOT June 2020 7902814*

Experimental Demonstration of Continuous Sensor Data Monitoring Using Neural Network-Based Optical Camera Communications. *Ahmed, M.F.*, +, *JPHOT Oct. 2020 7905011*

Freeform Surface Graded Optimization of Deformable Mirrors in Integrated Zoom and Image Stabilization System Through Vectorial Ray Tracing and Image Point Freezing Method. *Ning, Y.*, +, *JPHOT Feb. 2020 6900316*

- HyperSight: A Precise Decoding Algorithm for VLC With Mobile-Phone Camera. *Meng, Y.*, +, *JPHOT Aug. 2020 7904211*
- Cancer**
- Enhancement of Chest X-Ray Images to Improve Screening Accuracy Rate Using Iterated Function System and Multilayer Fractional-Order Machine Learning Classifier. *Lin, C.*, +, *JPHOT Aug. 2020 4100218*
- Real-Time Thermoacoustic Imaging-Guidance for Breast Tumor Resection. *Qin, H.*, +, *JPHOT June 2020 3700207*
- Carbon nanotubes**
- Formation and Evolution of Soliton in Two-Mode Fiber Laser. *Zheng, Y.*, +, *JPHOT Aug. 2020 3200408*
- Cardiology**
- Robust Imaging Photoplethysmography in Long-Distance Motion. *Kong, L.*, +, *JPHOT June 2020 3900512*
- Carrier mobility**
- Impact of Temperature and Doping on the Performance of Ge/Ge_{1-x}Sn_x/Ge Heterojunction Phototransistors. *Kumar, H.*, +, *JPHOT June 2020 6801814*
- The Effect of Bias and Frequency on Amplitude to Phase Conversion of Photodiodes. *Sun, J.*, +, *JPHOT Aug. 2020 5502010*
- Ceilings**
- An Alternative Approach for High Uniformity Distribution of Indoor Lighting LED. *Giang, D.T.*, +, *JPHOT April 2020 7100810*
- Cellular biophysics**
- Corrections to "Excitation of Mitochondria-Endoplasmic Reticulum Ca²⁺ Coupling by Femtosecond-Laser Photostimulation" [Aug 20 Art. no. 3700308]. *Shi, F.*, +, *JPHOT Oct. 2020 9700201*
- Excitation of mitochondria-Endoplasmic reticulum Ca²⁺ coupling by femtosecond-Laser photostimulation. *Shi, F.*, +, *JPHOT Aug. 2020 3700308*
- Non-Invasive Optical Screening of *Streptococcus Pneumonia* Based Inflammatory Changes of the Tympanic Membrane and Mastoid Mucosa in Guinea Pig Otitis Media Using Optical Coherence Tomography. *Wijesinghe, R.E.*, +, *JPHOT Aug. 2020 3700611*
- Quantitative Phase Imaging During Cell Division Based on Dual-Channel Microscopic Interferometry System. *Liu, S.*, +, *JPHOT Feb. 2020 6900411*
- Cesium**
- A Dual-Frequency Faraday Laser. *Shi, T.*, +, *JPHOT Aug. 2020 1503211*
- Channel bank filters**
- SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs. *Zhang, X.*, +, *JPHOT June 2020 7903113*
- Channel capacity**
- Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. *Zhang, J.*, +, *JPHOT April 2020 7902011*
- Channel estimation**
- ANN-Assisted Real-Time Blind Signal Detection Over Time-Varying Doubly-Stochastic Poisson Channel for Indoor Optical Wireless Communications. *Arya, S.*, +, *JPHOT Oct. 2020 7904918*
- Demonstration of a 2.34 Gbit/s Real-Time Single Silicon-Substrate Blue LED-Based Underwater VLC System. *Chen, M.*, +, *JPHOT Feb. 2020 7900211*
- Channel spacing**
- Multi-Wavelength SOA Fiber Laser With Ultra-Narrow Wavelength Spacing Based on NPR Effect. *Zhou, X.*, +, *JPHOT Oct. 2020 7202408*
- Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μ m Wavelength Band. *Liu, Y.*, +, *JPHOT Aug. 2020 4900308*
- Chaos**
- Compressive Sensing Based on Mesoscopic Chaos of Silicon Optomechanical Photonic Crystal. *Guo, P.*, +, *JPHOT Oct. 2020 6602009*
- Networked Chaotic Map Model and Its Applications in Color Multiple Image Encryption. *Sun, Y.*, +, *JPHOT Oct. 2020 7801218*
- Chaotic communication**
- A Novel Hybrid Secure Method Based on DNA Encoding Encryption and Spiral Scrambling in Chaotic OFDM-PON. *Xiao, Y.*, +, *JPHOT June 2020 7201215*
- ARM-Embedded Implementation of a Novel Color Image Encryption and Transmission System Based on Optical Chaos. *Liu, B.*, +, *JPHOT Oct. 2020 3900817*
- Prediction Algorithm of Key Design Parameters for Space Chaotic Optical Communication System. *Li, M.*, +, *JPHOT Aug. 2020 7904308*
- Chebyshev approximation**
- Sequential Shift Absolute Phase Aberration Calibration in Digital Holographic Phase Imaging Based on Chebyshev Polynomials Fitting. *He, W.*, +, *JPHOT Feb. 2020 6900111*
- Chemical sensors**
- Multi-Channel Photonic Crystal Fiber Based Surface Plasmon Resonance Sensor for Multi-Analyte Sensing. *Yasli, A.*, +, *JPHOT Feb. 2020 6800515*
- Towards Non-Contact Glucose Sensing in Aqueous Turbid Medium at \square 1.1 Meters Distance. *Piao, D.*, +, *JPHOT Aug. 2020 3700523*
- Chirality**
- Tunable and Reconfigurable Dual-Band Chiral Metamirror. *Fan, J.*, +, *JPHOT Oct. 2020 4601108*
- Chirp modulation**
- Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. *Li, K.*, +, *JPHOT Oct. 2020 1503811*
- Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K.*, +, *JPHOT Feb. 2020 1500409*
- Frequency-Sweep-Range-Reconfigurable Complementary Linearly Chirped Microwave Waveform Pair Generation by Using a Fourier Domain Mode Locking Optoelectronic Oscillator Based on Stimulated Brillouin Scattering. *Zhang, L.*, +, *JPHOT June 2020 5501010*
- Generation of Terawatt-Scale Vortex Pulses Based on Optical Parametric Chirped-Pulse Amplification. *Pan, W.*, +, *JPHOT June 2020 1502608*
- High-Power Femtosecond Pulse Generation From an All-Fiber Er-Doped Chirped Pulse Amplification System. *Wei, R.*, +, *JPHOT April 2020 3200208*
- Nonlinear Spectrum Compression of Negatively Chirped Picosecond Pulses in Dispersion-Shifted Telecom Fiber. *Krylov, A.*, +, *JPHOT April 2020 7100515*
- Photonics-Assisted Bandwidth-Doubling Dual-Chirp Microwave Signal Generation With Freely-Tunable Central Frequency. *Zhang, L.*, +, *JPHOT Aug. 2020 5501611*
- Ultra-Wideband Signal Generation Based on a Silicon Segmented Mach-Zehnder Modulator. *Zhou, G.*, +, *JPHOT Dec. 2020 5502615*
- Chromium**
- Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser. *Huang, H.*, +, *JPHOT June 2020 1503008*
- Enhancement of Tetrahedral Chromium (Cr⁴⁺) Concentration for High-Gain in Single-Mode Crystalline Core Fibers. *Liu, C.*, +, *JPHOT April 2020 7200811*
- Circadian rhythms**
- Investigation on Circadian Action and Color Quality in Laser-Based Illuminant for General Lighting and Display. *Lei, S.*, +, *JPHOT Aug. 2020 8200509*
- Claddings**
- Integrated Photonic Platform for Robust Differential Refractive Index Sensor. *Moras, A.L.*, +, *JPHOT Oct. 2020 6802910*
- Closed loop systems**
- Tip/tilt Alignment for a Fizeau Interferometer via Defocus-Based Sub-Spot Separation. *Lv, W.*, +, *JPHOT Dec. 2020 3901113*
- CMOS image sensors**
- Modelization and Characterization of a CMOS Camera as an Optical Real-Time Oscilloscope. *Cossu, G.*, +, *JPHOT Dec. 2020 7906313*
- Simulation of the Electrostatic Distribution in the Proximity Focusing Structure of an EBCMOS. *Wang, W.*, +, *JPHOT June 2020 6901210*
- CMOS integrated circuits**
- A Compact High-Speed Active Quenching and Recharging Circuit for SPAD Detectors. *Xu, Y.*, +, *JPHOT Oct. 2020 6803208*
- All-Silicon Energy-Efficient Optical Diode Using Opto-Mechanical Microring Resonators. *Xu, L.*, +, *JPHOT June 2020 4501009*
- Compressive Sensing Based on Mesoscopic Chaos of Silicon Optomechanical Photonic Crystal. *Guo, P.*, +, *JPHOT Oct. 2020 6602009*
- High Detection Rate Fast-Gated CMOS Single-Photon Avalanche Diode Module. *Renna, M.*, +, *JPHOT Oct. 2020 6802312*
- The Design of CMOS-Compatible Plasmonic Waveguides for Intra-Chip Communication. *Liu, Y.*, +, *JPHOT Oct. 2020 4800810*

Code division multiple access

Design and Investigation of 10 Gb/s FSO Wiretap Channel Using OCDMA Time-Diversity Reception. *Ji, J., +, JPHOT June 2020 7903212*

Codes

Polarimetric Identification of 3D-Printed Nano Particle Encoded Optical Codes. *Ahmadi, K., +, JPHOT June 2020 6500810*

Cognitive radio

On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference. *Erdogan, E., +, JPHOT Feb. 2020 7900313*

Coherence

Propagation Properties of Gaussian Schell-Model Beam Array in the Jet Engine Exhaust Induced Turbulence. *Zhang, Y., +, JPHOT Dec. 2020 6501113*

Coherence length

Effects of Grain Morphology on Nonlinear Conversion Efficiency of Random Quasi-Phase Matching in Polycrystalline Materials. *Liu, K., +, JPHOT Dec. 2020 2200910*

Coils

Research on Three-Dimensional Magnetic Induced Error Model of Interferometric Fiber Optic Gyro. *Wang, Z., +, JPHOT Oct. 2020 6802412*

Color

Electrical and Thermal Effects of Tunable LED Systems on Lighting and Non-Visual Biological Characteristics. *Shen, X., +, JPHOT June 2020 8200313*

Color displays

Integrating Backlight With Color-Filter-Free Panel for Enhancing Performance of LCD. *Teng, T., +, JPHOT Feb. 2020 7000116*

Comb filters

Switchable Multi-Wavelength Thulium-Doped Fiber Laser Using Four-Mode Fiber Based Sagnac Loop Filter. *Guo, Y., +, JPHOT April 2020 7100610*

Communication complexity

Pre-Distorted Enhanced ADO-OFDM for Hybrid VLC Networks: A Mutual-Interference-Free Approach. *Huang, X., +, JPHOT April 2020 7901512*

Compensation

Impact of Analog and Digital Pre-Emphasis on the Signal-to-Noise Ratio of Bandwidth-Limited Optical Transceivers. *Zhou, Z., +, JPHOT April 2020 7200712*

Theoretical Analyses of Different Nonlinear Compensation Methods Based on Perturbation Theories in the Unrepeated System With Raman Amplification. *Wang, Y., +, JPHOT Aug. 2020 7903611*

Composite materials

Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser. *Huang, H., +, JPHOT June 2020 1503008*

Compressed sensing

Broadband Microwave Spectrum Sensing Based on Photonic RF Channelization and Compressive Sampling. *Yang, B., +, JPHOT Feb. 2020 5500109*

Compressive Sensing Based on Mesoscopic Chaos of Silicon Optomechanical Photonic Crystal. *Guo, P., +, JPHOT Oct. 2020 6602009*

Conveyor X-Ray Tomosynthesis Imaging With Optimized Structured Sequential Illumination. *Ma, X., +, JPHOT Oct. 2020 3400217*

Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing. *Hu, M., +, JPHOT Aug. 2020 5900309*

Computational complexity

A Fast and High-Accuracy Real-Time Visible Light Positioning System Based on Single LED Lamp With a Beacon. *Li, H., +, JPHOT Dec. 2020 7906512*

Adaptive Blind Stokes-Space Based Equalizer for RSOP in SV-DD Systems With High Chromatic Dispersion Tolerance. *Jin, Y., +, JPHOT April 2020 7200913*

Design of the Real-Time Single-Photodiode Digital Coherent Receiver Suitable for Free Space Optical Communication. *Zhou, K., +, JPHOT Oct. 2020 7905412*

Fourier and Inverse Fourier Transform Model for Delayed Self-interferometry System. *Zhang, L., +, JPHOT June 2020 5501511*

Generalized Likelihood Block Detection for SPAD-Based Underwater VLC System. *Ji, Y., +, JPHOT Feb. 2020 7900510*

Phase Alignment With Minimum Complexity for Equal Gain Combining in Multi-Aperture Free-Space Digital Coherent Optical Communication Receivers. *Tu, Y., +, JPHOT April 2020 7901410*

Computational modeling

Theoretical and Numerical Analysis for Design of High Ratio Fiber Optic Taper Drawing Process. *Liu, J., +, JPHOT Dec. 2020 7103712*

Computer vision

Three-dimensional Measurement of Specular Surfaces Based on the Light Field. *Zhou, P., +, JPHOT Oct. 2020 6901613*

Computerized instrumentation

Direct and Practical Identification for Back Focal Plane Based Surface Plasmon Microscopy. *Zhang, B., +, JPHOT Feb. 2020 6900208*

Computerized tomography

Conveyor X-Ray Tomosynthesis Imaging With Optimized Structured Sequential Illumination. *Ma, X., +, JPHOT Oct. 2020 3400217*

Enhancement of Chest X-Ray Images to Improve Screening Accuracy Rate Using Iterated Function System and Multilayer Fractional-Order Machine Learning Classifier. *Lin, C., +, JPHOT Aug. 2020 4100218*

X-Ray Layered Refocusing Imaging Based on Linear Scanning. *Liu, B., +, JPHOT June 2020 3400112*

Conduction bands

On the Impact of Electron Leakage on the Efficiency Droop for AlGaIn Based Deep Ultraviolet Light Emitting Diodes. *Chu, C., +, JPHOT June 2020 1600207*

Content-addressable storage

OE-CAM: A Hybrid Opto-Electronic Content Addressable Memory. *Alkaban, Y., +, JPHOT April 2020 6600114*

Control design

Extended Kalman Filter Based Linear Quadratic Regulator Control for Optical Wireless Communication Alignment. *Alalwan, A., +, JPHOT Dec. 2020 7907012*

Control system synthesis

A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M., +, JPHOT Dec. 2020 7906212*

Convolutional neural nets

Advanced Three-Dimensional Visualization System for an Integral Imaging Microscope Using a Fully Convolutional Depth Estimation Network. *Kwon, K., +, JPHOT Aug. 2020 3900714*

CNN-Based Phase Matching for the OAM Mode Selection in Turbulence Heterodyne Coherent Mitigation Links. *Yang, C., +, JPHOT Dec. 2020 7905913*

Convolutional Neural Network Training for RGB Camera Color Restoration Using Generated Image Pairs. *Han, Z., +, JPHOT Oct. 2020 6802815*

Digital Holographic Reconstruction Based on Deep Learning Framework With Unpaired Data. *Yin, D., +, JPHOT April 2020 3900312*

Restoration of Out-of-Focus Fluorescence Microscopy Images Using Learning-Based Depth-Variant Deconvolution. *He, D., +, JPHOT April 2020 3900113*

Copper

Research on Fabrication and Performance of Hollow-Core Anti-Resonant Fiber Coated With Copper Film. *Wu, M., +, JPHOT June 2020 7101708*

The Design of CMOS-Compatible Plasmonic Waveguides for Intra-Chip Communication. *Liu, Y., +, JPHOT Oct. 2020 4800810*

Correlation methods

Image Encryption System Based on Joint Transformation Correlation and Ptychography. *Zhong, Y., +, JPHOT April 2020 2400110*

Research on 2F Optical Correlator Based on Neural Network Filter for Recognizing Large-Angle Rotation Distortion Target. *Yang, T., +, JPHOT April 2020 7800310*

Counting circuits

A Precise High Count-Rate FPGA Based Multi-Channel Coincidence Counting System for Quantum Photonics Applications. *Arabul, E., +, JPHOT April 2020 7500114*

Coupled mode analysis

Design of Partially Suspended Silicon Nitride Slot Waveguides for Efficient Forward Stimulated Brillouin Scattering. *Wang, K., +, JPHOT Aug. 2020 4501211*

Spatial-Dependent Hamiltonian Formulation of Cross-Mode Modulation. *Yang, H., +, JPHOT Feb. 2020 6100208*

Ultra-Broadband, Fabrication Tolerant Optical Coupler for Arbitrary Splitting Ratio Using Particle Swarm Optimization Algorithm. *Leng, L., +, JPHOT Oct. 2020 6602212*

Couplers

Compact and Broadband Edge Coupler Based on Multi-Stage Silicon Nitride Tapers. *Bhandari, B., +, JPHOT Dec. 2020 6602511*

Crosstalk

Analytic Expressions for Orbital Angular Momentum Modal Crosstalk in a Slightly Elliptical Fiber. *Bhandari, R., JPHOT Dec. 2020 7202621*

Cryptographic protocols

Hybrid QKD Protocol Outperforming Both DV- and CV-QKD Protocols. *Djordjevic, I.B., JPHOT Feb. 2020 7600108*

Cryptography

A Novel 3D Vector Decomposition for Color-Image Encryption. *Zhu, Z., +, JPHOT April 2020 7800614*

A Novel Hybrid Secure Method Based on DNA Encoding Encryption and Spiral Scrambling in Chaotic OFDM-PON. *Xiao, Y., +, JPHOT June 2020 7201215*

ARM-Embedded Implementation of a Novel Color Image Encryption and Transmission System Based on Optical Chaos. *Liu, B., +, JPHOT Oct. 2020 3900817*

High-Security Multi-Slot Chaos Encryption With Dynamic Probability for 16-CAP PON. *han, S., +, JPHOT June 2020 7201510*

Image Compression-Encryption Scheme via Fiber Specklegram-Based Compressive Sensing and Double Random Phase Encoding. *Liu, Y., +, JPHOT Aug. 2020 7102311*

Image Encryption System Based on Joint Transformation Correlation and Ptychography. *Zhong, Y., +, JPHOT April 2020 2400110*

Networked Chaotic Map Model and Its Applications in Color Multiple Image Encryption. *Sun, Y., +, JPHOT Oct. 2020 7801218*

Crystall growth from solution

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K., +, JPHOT Oct. 2020 2200611*

Current density

High-Performance Semi-Polar InGaN/GaN Green Micro Light-Emitting Diodes. *Xu, F., +, JPHOT Feb. 2020 2500107*

Sidewall Profile Dependent Nanostructured Ultrathin Solar Cells With Enhanced Light Trapping Capabilities. *Sun, T., +, JPHOT Feb. 2020 8400112*

Current-voltage characteristics

Extended Electrical and Photonic Characterization of GaN-Based Ultra-Violet MicroLEDs With an ITO Emission Window Layer. *Tsai, Y., +, JPHOT Dec. 2020 2400409*

Curve fitting

Optimized Support Vector Machine Assisted BOTDA for Temperature Extraction With Accuracy Enhancement. *Zhu, H., +, JPHOT Feb. 2020 6800214*

D**Dark conductivity**

An Amorphous $(\text{Al}_{0.12}\text{Ga}_{0.88})_2\text{O}_3$ Deep Ultraviolet Photodetector. *Liu, S., +, JPHOT Aug. 2020 6801908*

Data compression

Image Compression-Encryption Scheme via Fiber Specklegram-Based Compressive Sensing and Double Random Phase Encoding. *Liu, Y., +, JPHOT Aug. 2020 7102311*

Data privacy

ARM-Embedded Implementation of a Novel Color Image Encryption and Transmission System Based on Optical Chaos. *Liu, B., +, JPHOT Oct. 2020 3900817*

High-Speed Privacy Amplification Scheme Using GMP in Quantum Key Distribution. *Yan, B., +, JPHOT June 2020 7600213*

Data visualization

Advanced Three-Dimensional Visualization System for an Integral Imaging Microscope Using a Fully Convolutional Depth Estimation Network. *Kwon, K., +, JPHOT Aug. 2020 3900714*

Decode and forward communication

On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference. *Erdogan, E., +, JPHOT Feb. 2020 7900313*

Decoding

Neural Successive Cancellation Polar Decoder With Tanh-Based Modified LLR Over FSO Turbulence Channel. *Fang, J., +, JPHOT Dec. 2020 7906110*

Deconvolution

Restoration of Out-of-Focus Fluorescence Microscopy Images Using Learning-Based Depth-Variant Deconvolution. *He, D., +, JPHOT April 2020 3900113*

Deep learning

Model-Aware End-to-End Learning for SISO Optical Wireless Communication Over Poisson Channel. *Si-Ma, L., +, JPHOT Dec. 2020 7907115*

Delays

An Optical Pulse Shaping Scheme for Simultaneous Photonic Filtering and Digitizing Systems. *Sun, Y., +, JPHOT Feb. 2020 5500509*

Demodulation

A Demodulation Method of Spatial Domain for Low-Coherence Interferometry With High Accuracy and Adaptability. *Wang, C., +, JPHOT April 2020 6801111*

A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation. *Zhang, H., +, JPHOT Feb. 2020 5500208*

An Enhanced Distributed Acoustic Sensor With Large Temperature Tolerance Based on Ultra-Weak Fiber Bragg Grating Array. *Li, C., +, JPHOT Aug. 2020 7202211*

Orthogonal Phase Demodulation of Optical Fiber Fabry-Perot Interferometer Based on Birefringent Crystals and Polarization Technology. *Huang, Y., +, JPHOT June 2020 7101209*

Quantitative Phase Imaging During Cell Division Based on Dual-Channel Microscopic Interferometry System. *Liu, S., +, JPHOT Feb. 2020 6900411*

Temporal Ghost Imaging by Means of Fourier Spectrum Acquisition. *Huang, H., +, JPHOT Oct. 2020 6803012*

The Correction of Nonlinearity in Wavelength Scanning Based on Long-OPD Interferometer for Fiber Bragg Grating Demodulation in Environment With Variable Temperature. *Zhang, X., +, JPHOT April 2020 7100410*

Demultiplexing

Adaptive Blind Stokes-Space Based Equalizer for RSOP in SV-DD Systems With High Chromatic Dispersion Tolerance. *Jin, Y., +, JPHOT April 2020 7200913*

Demultiplexing equipment

Influence of the Demultiplexer on Channel-Interleaved Photonic Analog-to-Digital Converters. *Qian, N., +, JPHOT Oct. 2020 5502110*

Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays. *Wang, Z., +, JPHOT June 2020 4800410*

Detection algorithms

Constant Weight Space-Time Codes for Dimmable MIMO-VLC Systems. *Guo, J., +, JPHOT Dec. 2020 7906815*

Diagnostic radiography

Enhancement of Chest X-Ray Images to Improve Screening Accuracy Rate Using Iterated Function System and Multilayer Fractional-Order Machine Learning Classifier. *Lin, C., +, JPHOT Aug. 2020 4100218*

Diaphragms

Gold-Diaphragm Based Fabry-Perot Ultrasonic Sensor for Partial Discharge Detection and Localization. *Zhang, W., +, JPHOT June 2020 6801612*

Dielectric devices

Effects of Lateral Optical Confinement In GaN VCSELs With Double Dielectric DBRs. *Xu, R., +, JPHOT April 2020 1501708*

Dielectric materials

Optimized Multilayer Structures With Ultrabroadband Near-Perfect Absorption. *You, C., +, JPHOT June 2020 4500810*

Tunable Anisotropic Perfect Enhancement Absorption in Black Phosphorus-Based Metasurfaces. *Tang, B., +, JPHOT June 2020 4500209*

Dielectric resonators

Broadband High-Efficiency Electromagnetic Orbital Angular Momentum Beam Generation Based on a Dielectric Metasurface. *Lin, Z., +, JPHOT June 2020 4600611*

Dynamic Responses of Cylindrical Whispering Gallery Mode Revealed by Axial Liquid Disturbance. *Zhao, H., +, JPHOT June 2020 7102009*

Diffraction gratings

A Comparative Study of Thermal Impact on Erbium Doped Distributed Feedback Fiber Laser Output Power. *Guo, J., +, JPHOT April 2020 1502009*

A Mid-Infrared Dual-Band Filter With Ultra-High Resolving Power. *He, X., +, JPHOT Aug. 2020 2200410*

All-Fiber Laser With Agile Mode-Switching Capability Through Intra-Cavity Conversion. *Wu, H., +, JPHOT April 2020 1500709*

Backward-Emitting Silicon Nitride Optical Phased Array Enabling Efficient Wavelength-Tuned Beam Steering. *Im, C., +, JPHOT Oct. 2020 6601910*

Distributed Birefringence Measurement of a Polarization-Maintaining Fiber With an Extended Range Based on an Enhanced Brillouin Dynamic Grating. *Jiang, T., +, JPHOT Aug. 2020 7102607*

Generation of Terawatt-Scale Vortex Pulses Based on Optical Parametric Chirped-Pulse Amplification. *Pan, W., +, JPHOT June 2020 1502608*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*

Interleaved Subwavelength Gratings Strip Waveguide Based TM Pass Polarizer on SOI Platform. *Xu, Z., +, JPHOT April 2020 4900110*

Investigation of Enhanced Transmission and Beaming Effect Through an InSb Subwavelength Grating With a Slit at the Terahertz Range. *Liu, X., +, JPHOT Feb. 2020 4800112*

Large-Scale Integrated Multi-Lines Optical Phased Array Chip. *Zhang, L., +, JPHOT Aug. 2020 6601208*

Nonmetallic Broadband Visible-Light Absorbers With Polarization and Incident Angle Insensitivity. *Yu, Y., +, JPHOT Dec. 2020 2200807*

Polarization-Independent Two-Layer Grating With Five-Port Splitting Output Under Normal Incidence. *Gong, B., +, JPHOT April 2020 6500208*

Quasiperiodic Dielectric Gratings for Multiband Fiber-To-Chip Couplers. *Picin, O.J., +, JPHOT Oct. 2020 7103010*

Regulating the Single-Mode Lasing Intensity of Semiconductor Lasers Without Wavelength Shift. *Wang, Y., +, JPHOT April 2020 6100709*

Resonant Excitation Analysis on Asymmetrical Lateral Leakage of Light in Finite Zero-Contrast Grating Mirror. *Sang, T., +, JPHOT April 2020 4500111*

Resonant Reflection From Cylindrical Grating-Waveguide Under Holistic Excitation. *Koussi, E.K., +, JPHOT April 2020 2700111*

Sensitivity-Based Structural Optimal Design With Bi-Directional Beam Propagation Method for Photonic Devices in High-Index-Contrast Waveguides. *Iguchi, A., +, JPHOT Oct. 2020 6602111*

Diffraction optical elements

A Hybrid Algorithm for Multi-Beam Steering of LCOS-Based Wavelength Selective Switch. *Gao, Y., +, JPHOT June 2020 7903011*

Digital filters

Hybrid OFDM-Digital Filter Multiple Access PONs Utilizing Spectrally Overlapped Digital Orthogonal Filtering. *Sankoh, A., +, JPHOT Oct. 2020 7905311*

Digital signal processing chips

Design of the Real-Time Single-Photodiode Digital Coherent Receiver Suitable for Free Space Optical Communication. *Zhou, K., +, JPHOT Oct. 2020 7905412*

Hybrid OFDM-Digital Filter Multiple Access PONs Utilizing Spectrally Overlapped Digital Orthogonal Filtering. *Sankoh, A., +, JPHOT Oct. 2020 7905311*

Phase Alignment With Minimum Complexity for Equal Gain Combining in Multi-Aperture Free-Space Digital Coherent Optical Communication Receivers. *Tu, Y., +, JPHOT April 2020 7901410*

Digital-analog conversion

Impact of Analog and Digital Pre-Emphasis on the Signal-to-Noise Ratio of Bandwidth-Limited Optical Transceivers. *Zhou, Z., +, JPHOT April 2020 7200712*

Low-Complexity Time-Domain Averaging-Based DAC Clock Tone Leakage Compensation for Short-Reach PAM4 Transmission. *Chen, M., +, JPHOT June 2020 7202014*

Dipole antennas

Polarization Independent Unidirectional Scattering With Turnstile Nanoantennas. *Rocco, D., +, JPHOT Dec. 2020 4501908*

The Impact of Structural Parameters of Split-Ring Resonators on the Terahertz Radiation Characteristics of Micro-Structured Photoconductive Antennas: A Simulation Study. *Deng, H., +, JPHOT June 2020 5900213*

Direction-of-arrival estimation

Angle-of-Arrival (AOA) Visible Light Positioning (VLP) System Using Solar Cells With Third-Order Regression and Ridge Regression Algorithms. *Hong, C., +, JPHOT June 2020 7902605*

Discrete Fourier transforms

SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs. *Zhang, X., +, JPHOT June 2020 7903113*

Diseases

Non-Invasive Optical Screening of *Streptococcus Pneumonia* Based Inflammatory Changes of the Tympanic Membrane and Mastoid Mucosa in Guinea Pig Otitis Media Using Optical Coherence Tomography. *Wijesinghe, R.E., +, JPHOT Aug. 2020 3700611*

Display devices

Investigation on Circadian Action and Color Quality in Laser-Based Illuminant for General Lighting and Display. *Lei, S., +, JPHOT Aug. 2020 8200509*

Surface Micro-Reflector Array for Augmented Reality Display. *Yan, Z., +, JPHOT April 2020 7000209*

Distortion

Grating Optimization for Dimensions-Reduced Orthogonal Volterra DPD. *Faig, H., +, JPHOT Feb. 2020 7200310*

Distributed Bragg reflector lasers

Effects of Lateral Optical Confinement In GaN VCSELs With Double Dielectric DBRs. *Xu, R., +, JPHOT April 2020 1501708*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*

Distributed Bragg reflectors

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*

Improved Performance of Passive-Matrix Micro-LED Displays Using a Multi-Function Passivation Structure. *Chen, P., +, JPHOT Aug. 2020 7000711*

Distributed feedback lasers

1310 nm Narrow Linewidth Laser Assisted by the Feedback of Double-FBGs. *Iroegbu, P.I., +, JPHOT Oct. 2020 1503612*

A Comparative Study of Thermal Impact on Erbium Doped Distributed Feedback Fiber Laser Output Power. *Guo, J., +, JPHOT April 2020 1502009*

A Monolithic Integrated Dual-Wavelength DFB Laser With Equivalent Inverse-Gaussian Apodized Grating. *Yuan, B., +, JPHOT Dec. 2020 3030669*

A Simplified Radio-Over-Fiber System for Over 100-km Long-Reach n-QAM Transmission. *Shiu, R., +, JPHOT June 2020 7902908*

A Sub-kHz Narrow-Linewidth, and Hundred-mW High-Output-Power Silicon-Based Er Silicate Laser With Hybrid Pump and Signal Co-Resonant Cavity. *Zhou, P., +, JPHOT Feb. 2020 1500212*

Distributed sensors

A POTDR System Based on Dual Sensing Directions. *Xiong, B., +, JPHOT April 2020 7100708*

An Enhanced Distributed Acoustic Sensor With Large Temperature Tolerance Based on Ultra-Weak Fiber Bragg Grating Array. *Li, C., +, JPHOT Aug. 2020 7202211*

Distributed Birefringence Measurement of a Polarization-Maintaining Fiber With an Extended Range Based on an Enhanced Brillouin Dynamic Grating. *Jiang, T., +, JPHOT Aug. 2020 7102607*

Optimized Support Vector Machine Assisted BOTDA for Temperature Extraction With Accuracy Enhancement. *Zhu, H., +, JPHOT Feb. 2020 6800214*

Diversity reception

- Design and Investigation of 10 Gb/s FSO Wiretap Channel Using OCDMA Time-Diversity Reception. *Ji, J., +, JPHOT June 2020 7903212*
- Enhancing Secrecy Capacity in FSO Links via MISO Systems Through Turbulence-Induced Fading Channels With Misalignment Errors. *Boluda-Ruiz, R., +, JPHOT Aug. 2020 7903313*
- Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. *Zhang, J., +, JPHOT April 2020 7902011*

DNA

- A Novel Hybrid Secure Method Based on DNA Encoding Encryption and Spiral Scrambling in Chaotic OFDM-PON. *Xiao, Y., +, JPHOT June 2020 7201215*

Doping profiles

- 3D Simple Monte Carlo Statistical Model for GaAs Nanowire Single Photon Avalanche Diode. *Xie, S., +, JPHOT Aug. 2020 6802008*
- Simulation of the Electrostatic Distribution in the Proximity Focusing Structure of an EBCMOS. *Wang, W., +, JPHOT June 2020 6901210*

Doppler shift

- A Photonic Approach for Doppler Frequency Shift Measurement With Dispersion Medium. *Yi, C., +, JPHOT Oct. 2020 7102708*

Dosimeters

- Recent Advances in Silica Glass Optical Fiber for Dosimetry Applications. *Zubair, H., +, JPHOT June 2020 6801525*

Dosimetry

- Recent Advances in Silica Glass Optical Fiber for Dosimetry Applications. *Zubair, H., +, JPHOT June 2020 6801525*

Drawing (mechanical)

- Research on Fabrication and Performance of Hollow-Core Anti-Resonant Fiber Coated With Copper Film. *Wu, M., +, JPHOT June 2020 7101708*

Driver circuits

- Light-Emitting Commutating Diodes for Optical Wireless Communications Within LED Drivers. *Pawlikowski, W., +, JPHOT Oct. 2020 7905111*

Drops

- A Low Loss Quantum-Dot-Doped Optical Fiber Temperature Sensor Based on Flexible Print Technology. *Zhang, G., +, JPHOT June 2020 7101008*
- Controllable Droplet Generators by Light-Heat Energy Conversion for Selective Particle Encapsulation. *Chen, Y., +, JPHOT Oct. 2020 7103109*

Dust

- Sand-Dust Image Restoration Based on Reversing the Blue Channel Prior. *Gao, G., +, JPHOT April 2020 3900216*

Dye lasers

- Amplification Characteristics of a Coumarin 460-Based Tunable Amplifier. *Shen, J., +, JPHOT April 2020 1501908*
- Dynamic Responses of Cylindrical Whispering Gallery Mode Revealed by Axial Liquid Disturbance. *Zhao, H., +, JPHOT June 2020 7102009*

Dyes

- Amplification Characteristics of a Coumarin 460-Based Tunable Amplifier. *Shen, J., +, JPHOT April 2020 1501908*

E**Ear**

- Non-Invasive Optical Screening of *Streptococcus Pneumonia* Based Inflammatory Changes of the Tympanic Membrane and Mastoid Mucosa in Guinea Pig Otitis Media Using Optical Coherence Tomography. *Wijesinghe, R.E., +, JPHOT Aug. 2020 3700611*

Eavesdropping

- Comprehensive Physical Layer Security Analysis of FSO Communications Over Málaga Channels. *Ai, Y., +, JPHOT Dec. 2020 7906617*

Eigenvalues and eigenfunctions

- Modeling and Optimization of Vortex Modes Propagation in Rectangular Dielectric Waveguides. *Lyubopytov, V.S., +, JPHOT Feb. 2020 6100117*
- Spatial-Dependent Hamiltonian Formulation of Cross-Mode Modulation. *Yang, H., +, JPHOT Feb. 2020 6100208*
- Stable Excitation of Orbital Angular Momentum States in Air-Core Fiber Seeded by an Integrated Optical Vortex Beam Emitter. *Wang, J., +, JPHOT Aug. 2020 6601408*
- The Simulation of Vortex Modes in Twisted Few-Mode Fiber With Inverse-Parabolic Index Profile. *Zhang, Z., +, JPHOT June 2020 7101908*

Electric fields

- Polarization Enhanced GaN Avalanche Photodiodes With p-type In_{0.05}Ga_{0.95}N Layer. *Wang, H., +, JPHOT Feb. 2020 6800606*

Electrical engineering computing

- Using Linear Interpolation to Reduce the Training Samples for Regression Based Visible Light Positioning System. *Wu, Y., +, JPHOT April 2020 7901305*

Electro-optical devices

- Electro-absorption and Electro-optic Characterization of L-Band InAs/InP Quantum-dash Waveguide. *Alkhazraji, E., +, JPHOT June 2020 6601010*
- High-Speed Optical-Beam Scanning by an Optical Phased Array Using Electro-Optic Polymer Waveguides. *Hirano, Y., +, JPHOT April 2020 6600807*
- Optical Multi-Context Blind Scrubbing for Field Programmable Gate Arrays. *Takaki, Y., +, JPHOT Dec. 2020 7801411*

Electro-optical effects

- Electro-absorption and Electro-optic Characterization of L-Band InAs/InP Quantum-dash Waveguide. *Alkhazraji, E., +, JPHOT June 2020 6601010*
- High-Speed Optical-Beam Scanning by an Optical Phased Array Using Electro-Optic Polymer Waveguides. *Hirano, Y., +, JPHOT April 2020 6600807*

Electro-optical modulation

- Actively Q-Switched Tm:YAP Laser Constructed Using an Electro-Optic Periodically Poled Lithium Niobate Bragg Modulator. *Lin, S., +, JPHOT Oct. 2020 1503509*

- Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. *Li, K., +, JPHOT Oct. 2020 1503811*

- Electro-Absorption Optical Modulator Based on Graphene-Buried Polymer Waveguides. *Lian, T., +, JPHOT Aug. 2020 6601610*

- Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K., +, JPHOT Feb. 2020 1500409*

- Frequency-Sweep-Range-Reconfigurable Complementary Linearly Chirped Microwave Waveform Pair Generation by Using a Fourier Domain Mode Locking Optoelectronic Oscillator Based on Stimulated Brillouin Scattering. *Zhang, L., +, JPHOT June 2020 5501010*

- Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y., +, JPHOT April 2020 2400207*

- Method for Receiving Weak Microwave Photonics Signals Based on Electro-Optical Up-Conversion. *He, Q., +, JPHOT Aug. 2020 5501910*

- Photonics-Assisted Bandwidth-Doubling Dual-Chirp Microwave Signal Generation With Freely-Tunable Central Frequency. *Zhang, L., +, JPHOT Aug. 2020 5501611*

- Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J., +, JPHOT June 2020 5501414*

- Tunable Electro- and All-Optical Switch Based on Epsilon-Near-Zero Meta-surface. *Xie, Z.T., +, JPHOT Aug. 2020 4501510*

- Ultra-Low Index-Contrast Polymeric Photonic Crystal Nanobeam Electro-Optic Modulator. *Li, X., +, JPHOT June 2020 4900208*

Electro-optical switches

- Tunable Electro- and All-Optical Switch Based on Epsilon-Near-Zero Meta-surface. *Xie, Z.T., +, JPHOT Aug. 2020 4501510*

- Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V., +, JPHOT Oct. 2020 4800913*

Electroabsorption

- Electro-absorption and Electro-optic Characterization of L-Band InAs/InP Quantum-dash Waveguide. *Alkhazraji, E., +, JPHOT June 2020 6601010*
- Electro-Absorption Optical Modulator Based on Graphene-Buried Polymer Waveguides. *Lian, T., +, JPHOT Aug. 2020 6601610*

- Impact of Analog and Digital Pre-Emphasis on the Signal-to-Noise Ratio of Bandwidth-Limited Optical Transceivers. *Zhou, Z., +, JPHOT April 2020 7200712*

- Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y., +, JPHOT April 2020 2400207*

- Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J., +, JPHOT June 2020 5501414*

Electroluminescence

Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M.*, +, *JPHOT June 2020 8200408*

Electromagnetic metamaterials

Dipole-Based Wavelet Superposition for Accurate Design and Analysis of Metasurface. *Chu, H.*, +, *JPHOT Oct. 2020 4601312*

Electromagnetic wave absorption

Tunable Anisotropic Perfect Enhancement Absorption in Black Phosphorus-Based Metasurfaces. *Tang, B.*, +, *JPHOT June 2020 4500209*

Electromagnetic wave polarization

Broadband Image-Reject Mixing Based on a Polarization-Modulated Dual-Channel Photonic Microwave Phase Shifter. *Zhang, Y.*, +, *JPHOT April 2020 7800409*

Comment on "Design and Characterization of an Ultrabroadband Metamaterial Microwave Absorber". *Rahman, S.U.*, +, *JPHOT April 2020 4600204*

Dual-Bandwidth Linear Polarization Converter Based on Anisotropic Metasurface. *Fu, C.*, +, *JPHOT April 2020 4600511*

Electromagnetic wave propagation

A New Hybrid Finite Element Method: Electromagnetic Propagation in Bent Waveguides. *Torres, J.P.N.*, +, *JPHOT Feb. 2020 5500413*

Propagation Operator Based Boundary Condition for Finite Element Analysis. *Morimoto, K.*, +, *JPHOT Aug. 2020 6601713*

Electromagnetic wave reflection

Dual-Bandwidth Linear Polarization Converter Based on Anisotropic Metasurface. *Fu, C.*, +, *JPHOT April 2020 4600511*

Electromagnetic waves

Applications of Neural Networks for Spectrum Prediction and Inverse Design in the Terahertz Band. *Li, J.*, +, *JPHOT Oct. 2020 5900509*

Broadband High-Efficiency Electromagnetic Orbital Angular Momentum Beam Generation Based on a Dielectric Metasurface. *Lin, Z.*, +, *JPHOT June 2020 4600611*

Electromagnetism

Faster and More Accurate Time Domain Electromagnetic Simulation Using Space Transformation. *Kazemzadeh, M.*, +, *JPHOT Aug. 2020 4800513*

Electron bombarded semiconductor devices

Simulation of the Electrostatic Distribution in the Proximity Focusing Structure of an EBCMOS. *Wang, W.*, +, *JPHOT June 2020 6901210*

Electron probe analysis

Enhancement of Tetrahedral Chromium (Cr^{4+}) Concentration for High-Gain in Single-Mode Crystalline Core Fibers. *Liu, C.*, +, *JPHOT April 2020 7200811*

Electron-hole recombination

Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M.*, +, *JPHOT June 2020 8200408*

High-Performance Semi-Polar InGaN/GaN Green Micro Light-Emitting Diodes. *Xu, F.*, +, *JPHOT Feb. 2020 2500107*

Simulation of the Electrostatic Distribution in the Proximity Focusing Structure of an EBCMOS. *Wang, W.*, +, *JPHOT June 2020 6901210*

Temperature-Dependent Carrier Recombination and Efficiency Droop of AlGaIn Deep Ultraviolet Light-Emitting Diodes. *Peng, Z.*, +, *JPHOT Feb. 2020 8200108*

Electrostatics

Simulation of the Electrostatic Distribution in the Proximity Focusing Structure of an EBCMOS. *Wang, W.*, +, *JPHOT June 2020 6901210*

Elemental semiconductors

A Performance Study of Dielectric Metalens with Process-Induced Defects. *Zhou, Y.*, +, *JPHOT June 2020 4500414*

A Sub-kHz Narrow-Linewidth, and Hundred-mW High-Output-Power Silicon-Based Er Silicate Laser With Hybrid Pump and Signal Co-Resonant Cavity. *Zhou, P.*, +, *JPHOT Feb. 2020 1500212*

All-Silicon Energy-Efficient Optical Diode Using Opto-Mechanical Microring Resonators. *Xu, L.*, +, *JPHOT June 2020 4501009*

Bias-Free Silicon-Based Optical Single-Sideband Modulator Without 2nd-Order Sideband. *Keshavarz, H.*, +, *JPHOT Aug. 2020 5501816*

Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L.*, +, *JPHOT Oct. 2020 6601906*

Compressive Sensing Based on Mesoscopic Chaos of Silicon Optomechanical Photonic Crystal. *Guo, P.*, +, *JPHOT Oct. 2020 6602009*

Dual-Mode GVD Tailoring in a Convex Waveguide. *Chen, W.*, +, *JPHOT Aug. 2020 6601506*

Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits. *Yu, X.*, +, *JPHOT Oct. 2020 2200708*

Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays. *Arvanitakis, G.N.*, +, *JPHOT April 2020 7901210*

High-Performance Microring Resonator Ge-on-Si Photodetectors by Optimizing Absorption Layer Length. *Cui, J.*, +, *JPHOT Aug. 2020 6802208*

Integrated Optical Delay Line Based on a Loopback Arrayed Waveguide Grating for Radio-frequency Filtering. *Wang, X.*, +, *JPHOT June 2020 6600911*

Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule. *Zhang, W.*, +, *JPHOT Feb. 2020 2200108*

Irrational Nanobricks Based High-Efficiency Polarization-Independence Metasurfaces. *Wang, W.*, +, *JPHOT Aug. 2020 4501108*

On-Chip Low-Power Gray Code Generation Based on Opto-Mechanical Microring Resonators. *Liu, L.*, +, *JPHOT June 2020 4500312*

Optimized Multilayer Structures With Ultrabroadband Near-Perfect Absorption. *You, C.*, +, *JPHOT June 2020 4500810*

Quasiperiodic Dielectric Gratings for Multiband Fiber-To-Chip Couplers. *Picin, O.J.*, +, *JPHOT Oct. 2020 7103010*

Sidewall Profile Dependent Nanostructured Ultrathin Solar Cells With Enhanced Light Trapping Capabilities. *Sun, T.*, +, *JPHOT Feb. 2020 8400112*

Stable Excitation of Orbital Angular Momentum States in Air-Core Fiber Seeded by an Integrated Optical Vortex Beam Emitter. *Wang, J.*, +, *JPHOT Aug. 2020 6601408*

Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides. *Zhang, B.*, +, *JPHOT April 2020 6600610*

Temperature Dependence of the Steering Angles of a Silicon Photonic Optical Phased Array. *Yepez, P.A.K.*, +, *JPHOT April 2020 6800813*

Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing. *Hu, M.*, +, *JPHOT Aug. 2020 5900309*

Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μm Wavelength Band. *Liu, Y.*, +, *JPHOT Aug. 2020 4900308*

Tunable Germanium-on-Insulator Band-Stop Optical Filter Using Thermo-Optic Effect. *Ho, C.P.*, +, *JPHOT April 2020 6600307*

Ultralow Loss and High Extinction Ratio TM-Pass Polarizer in Silicon Photonics. *Dhingra, N.*, +, *JPHOT Dec. 2020 6602311*

Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P.*, +, *JPHOT Dec. 2020 6602409*

Elliptic filters

Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength. *Li, J.*, +, *JPHOT Aug. 2020 6601309*

Encapsulation

Compact, High-Performance All-Polarization-Maintaining Er: Fiber Frequency Comb With Single Fiber Actuator. *Cai, Y.*, +, *JPHOT Aug. 2020 7102508*

Controllable Droplet Generators by Light-Heat Energy Conversion for Selective Particle Encapsulation. *Chen, Y.*, +, *JPHOT Oct. 2020 7103109*

Stacked Encapsulation Structure for Discretely Distributed Quantum Dot Array. *Cai, J.*, +, *JPHOT April 2020 7000310*

Encoding

Design and Investigation of 10 Gb/s FSO Wiretap Channel Using OCDMA Time-Diversity Reception. *Ji, J.*, +, *JPHOT June 2020 7903212*

Hybrid QKD Protocol Outperforming Both DV- and CV-QKD Protocols. *Djordjevic, I.B.*, *JPHOT Feb. 2020 7600108*

On-Chip Low-Power Gray Code Generation Based on Opto-Mechanical Microring Resonators. *Liu, L.*, +, *JPHOT June 2020 4500312*

Energy gap

Impact of Temperature and Doping on the Performance of Ge/Ge_{1-x}Sn_x/Ge Heterojunction Phototransistors. *Kumar, H.*, +, *JPHOT June 2020 6801814*

Energy harvesting

AquaE-lite Hybrid-Solar-Cell Receiver-Modality for Energy-Autonomous Terrestrial and Underwater Internet-of-Things. Kong, M., +, *JPHOT Aug. 2020 7904713*

Entropy

A Fast Image Segmentation Algorithm Based on Saliency Map and Neutrosophic Set Theory. Song, S., +, *JPHOT Oct. 2020 3901016*

Comparison of Geometrically Shaped and Probabilistically Shaped Bit-Loading DMT for Optical Interconnect System. Ding, J., +, *JPHOT April 2020 7201008*

Networked Chaotic Map Model and Its Applications in Color Multiple Image Encryption. Sun, Y., +, *JPHOT Oct. 2020 7801218*

Equalizers

56 Gbit/s OOK Signal in C-band Over 20 km Dispersion-Uncompensated Link Transmission With Receiver-Side EDC Algorithm. Liang, W., +, *JPHOT Oct. 2020 7905707*

Should Analogue Pre-Equalizers be Avoided in VLC Systems?. Li, X., +, *JPHOT April 2020 7901014*

Erbium

A Comparative Study of Thermal Impact on Erbium Doped Distributed Feedback Fiber Laser Output Power. Guo, J., +, *JPHOT April 2020 1502009*

A Robust Reference Optical Spectrum Based in-Band OSNR Monitoring Method Suitable for Flexible Optical Networks. Zhong, Y., +, *JPHOT June 2020 7201310*

An Erbium Fiber Laser With Single-Frequency Oscillation and Wavelength-Upconverted Output. Yeh, C., +, *JPHOT Oct. 2020 7102807*

Cladding-Pumped Erbium-Ytterbium Co-Doped Fiber Amplifier With Dual-Wavelength Auxiliary Signal Injection of 1030 and 1040 nm. Wei, S., +, *JPHOT April 2020 1501509*

Environmentally Stable 1.56- μm Femtosecond Laser System With Discontinuous Selectable Repetition Rate. Fu, H., +, *JPHOT June 2020 1502507*

Generation of Flat-Top Q-Switched Envelope Dissipative Soliton Resonance Pulse in Passively Mode-Locked Fiber Laser. Han, L., +, *JPHOT April 2020 7101508*

High-Power Femtosecond Pulse Generation From an All-Fiber Er-Doped Chirped Pulse Amplification System. Wei, R., +, *JPHOT April 2020 3200208*

L-band Wavelength-Switchable Dissipative Soliton Resonance Er-doped Fiber Laser. Liu, S., +, *JPHOT April 2020 1501206*

Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas. Miglani, R., +, *JPHOT Aug. 2020 7904621*

Erbium compounds

A Sub-kHz Narrow-Linewidth, and Hundred-mW High-Output-Power Silicon-Based Er Silicate Laser With Hybrid Pump and Signal Co-Resonant Cavity. Zhou, P., +, *JPHOT Feb. 2020 1500212*

Erbium-doped fiber lasers

A Single-Mode Erbium Fiber Laser With Flat Power Output and Wide Wavelength Tunability. Yeh, C., +, *JPHOT Dec. 2020 7202805*

Ergonomics

Influence of Display Luminance on Visual Discomfort in Dark Ambient Based on Haemodynamic Response. Shi, Y., +, *JPHOT Aug. 2020 7000814*

Error analysis

Generation of Phase-Only Fourier Hologram Based on Double Phase Method and Quantization Error Analysis. Wu, Y., +, *JPHOT Oct. 2020 7000913*

Error correction

An Image-Based Alignment Errors Correction Method for Segmented Fresnel Primary Mirror. Zhu, L., +, *JPHOT April 2020 6900614*

Error statistics

56 Gbit/s OOK Signal in C-band Over 20 km Dispersion-Uncompensated Link Transmission With Receiver-Side EDC Algorithm. Liang, W., +, *JPHOT Oct. 2020 7905707*

A Dimmable OFDM Scheme With Dynamic Subcarrier Activation for VLC. Wang, C., +, *JPHOT Feb. 2020 7900112*

A Novel Method for Constructing VLC Equalizer With Active-Passive Hybrid Network. Min, C., +, *JPHOT April 2020 7500310*

A Novel Phase Noise Suppression Scheme Utilizing Gaussian Wavelet Basis Expansion for PDM CO-OFDM Superchannel. Chen, Y., +, *JPHOT April 2020 7902309*

A Tunable Energy Signal for Intensity Modulation and Direct Detection Systems: Theory, Simulations, and Experiments. Vejandla, K., +, *JPHOT Feb. 2020 7900412*

ANN-Assisted Real-Time Blind Signal Detection Over Time-Varying Doubly-Stochastic Poisson Channel for Indoor Optical Wireless Communications. Arya, S., +, *JPHOT Oct. 2020 7904918*

Atmospheric Turbulence Suppression Algorithm Based on APD Adaptive Gain Control for FSO Links of 5G Floating Base Stations. Yu, X., +, *JPHOT Aug. 2020 7904011*

Blind Frequency Offset Estimation Based on Phase Rotation For Coherent Transceiver. Tan, Q., +, *JPHOT April 2020 7902212*

D-band Millimeter Wave Generation and Transmission Through Radio-Over-Fiber System. Li, J.L., +, *JPHOT April 2020 5500708*

D-Band mm-Wave SSB Vector Signal Generation Based on Cascaded Intensity Modulators. Li, Y., +, *JPHOT April 2020 7201111*

Demonstration of a 2.34 Gbit/s Real-Time Single Silicon-Substrate Blue LED-Based Underwater VLC System. Chen, M., +, *JPHOT Feb. 2020 7900211*

Design and Investigation of 10 Gb/s FSO Wiretap Channel Using OCDMA Time-Diversity Reception. Ji, J., +, *JPHOT June 2020 7903212*

Diffused-Line-of-Sight Communication for Mobile and Fixed Underwater Nodes. Guo, Y., +, *JPHOT Dec. 2020 7906413*

Experimental Demonstration of Continuous Sensor Data Monitoring Using Neural Network-Based Optical Camera Communications. Ahmed, M.F., +, *JPHOT Oct. 2020 7905011*

Fast Detection and Tracking of a Moving Transmitter via Visible Light Communication Link. Ahmed, M., +, *JPHOT Aug. 2020 7904414*

Free-Space Communication Turbulence Compensation by Optical Phase Conjugation. Chen, J., +, *JPHOT Oct. 2020 7905611*

Generalized Likelihood Block Detection for SPAD-Based Underwater VLC System. Ji, Y., +, *JPHOT Feb. 2020 7900510*

Grading Optimization for Dimensions-Reduced Orthogonal Volterra DPD. Faig, H., +, *JPHOT Feb. 2020 7200310*

HyperSight: A Precise Decoding Algorithm for VLC With Mobile-Phone Camera. Meng, Y., +, *JPHOT Aug. 2020 7904211*

Low-Complexity Time-Domain Averaging-Based DAC Clock Tone Leakage Compensation for Short-Reach PAM4 Transmission. Chen, M., +, *JPHOT June 2020 7202014*

Memory-Based Codes for Uniform Illumination in MIMO VLC. Uday, T., +, *JPHOT April 2020 7902115*

Neural Successive Cancellation Polar Decoder With Tanh-Based Modified LLR Over FSO Turbulence Channel. Fang, J., +, *JPHOT Dec. 2020 7906110*

Nonlinear Resilient Learning Method Based on Joint Time-Frequency Image Analysis in Underwater Visible Light Communication. Chen, H., +, *JPHOT April 2020 7901610*

OFDM With Differential Index Modulation for Visible Light Communication. Zheng, D., +, *JPHOT Feb. 2020 7900708*

On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference. Erdogan, E., +, *JPHOT Feb. 2020 7900313*

Orthogonal Time-Frequency Multiplexing With 2D Hermitian Symmetry for Optical-Wireless Communications. Zhong, J., +, *JPHOT April 2020 7901110*

Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. Ahmad, F., +, *JPHOT Aug. 2020 7904512*

Performance Analysis of Dual-Hop RF-UWOC Systems. Lei, H., +, *JPHOT April 2020 7901915*

Photonic Approach for Generation and Fast Switching of Binary Digitally Modulated RF Signals. Feng, X., +, *JPHOT Oct. 2020 5502208*

Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. Nguyen, D., +, *JPHOT Dec. 2020 5502814*

- Pre-Distorted Enhanced ADO-OFDM for Hybrid VLC Networks: A Mutual-Interference-Free Approach. *Huang, X.*, +, *JPHOT April 2020 7901512*
- Prediction Algorithm of Key Design Parameters for Space Chaotic Optical Communication System. *Li, M.*, +, *JPHOT Aug. 2020 7904308*
- Terahertz-Wave Generation Based on Optical Frequency Comb and Single Mach-Zehnder Modulator. *Yu, J.*, +, *JPHOT Feb. 2020 7900808*
- Toward Long-Distance Underwater Wireless Optical Communication Based on A High-Sensitivity Single Photon Avalanche Diode. *Chen, H.*, +, *JPHOT June 2020 7902510*
- Transmission Distance Extension of Directly Modulated Tunable V-cavity Laser Using AWG Wavelength Detuning. *Zhuang, Y.*, +, *JPHOT June 2020 7201707*

Estimation theory

- The Link Attenuation Model Based on Monte Carlo Simulation for Laser Transmission in Fog Channel. *Hu, S.*, +, *JPHOT Aug. 2020 6100910*

Etching

- Backward-Emitting Silicon Nitride Optical Phased Array Enabling Efficient Wavelength-Tuned Beam Steering. *Im, C.*, +, *JPHOT Oct. 2020 6601910*
- Etched Silicon-on-Insulator Microring Resonator for Ultrasound Measurement. *Yang, W.*, +, *JPHOT April 2020 6801409*
- Interleaved Subwavelength Gratings Strip Waveguide Based TM Pass Polarizer on SOI Platform. *Xu, Z.*, +, *JPHOT April 2020 4900110*
- Nonlinear Bound States in the Continuum of Etchless Lithium Niobate Metasurfaces. *Yang, Q.*, +, *JPHOT Oct. 2020 4601209*
- Polarization Coupling of eX-Cut Thin Film Lithium Niobate Based Waveguides. *Wang, J.*, +, *JPHOT June 2020 2200310*

Evolutionary computation

- Indoor High Precision Three-Dimensional Positioning System Based on Visible Light Communication Using Improved Hybrid Bat Algorithm. *Chen, Y.*, +, *JPHOT Oct. 2020 6802513*

Expectation-maximization algorithms

- ANN-Assisted Real-Time Blind Signal Detection Over Time-Varying Doubly-Stochastic Poisson Channel for Indoor Optical Wireless Communications. *Arya, S.*, +, *JPHOT Oct. 2020 7904918*

Eye

- Automated Optical Flow Based Registration for Adaptive Optics Scanning Laser Ophthalmoscope. *Chen, Y.*, +, *JPHOT April 2020 3700109*

F

Fabry-Perot interferometers

- A Demodulation Method of Spatial Domain for Low-Coherence Interferometry With High Accuracy and Adaptability. *Wang, C.*, +, *JPHOT April 2020 6801111*
- A Novel Repetition Rate Adjustable SBS-Based Q-Switched Fiber Laser. *Hou, S.*, +, *JPHOT April 2020 1501408*
- Effect of Laser Polarization on Fiber Bragg Grating Fabry-Perot Interferometer for Ultrasound Detection. *Zhu, Y.*, +, *JPHOT Aug. 2020 7102408*
- Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K.*, +, *JPHOT Feb. 2020 1500409*
- Gold-Diaphragm Based Fabry-Perot Ultrasonic Sensor for Partial Discharge Detection and Localization. *Zhang, W.*, +, *JPHOT June 2020 6801612*
- Orthogonal Phase Demodulation of Optical Fiber Fabry-Perot Interferometer Based on Birefringent Crystals and Polarization Technology. *Huang, Y.*, +, *JPHOT June 2020 7101209*
- The Correction of Nonlinearity in Wavelength Scanning Based on Long-OPD Interferometer for Fiber Bragg Grating Demodulation in Environment With Variable Temperature. *Zhang, X.*, +, *JPHOT April 2020 7100410*
- Ultrahigh-Resolution Fiber-Optic Sensing Based on High-Finesse, Meter-Long Fiber Fabry-Perot Resonators. *Hoque, N.M.R.*, +, *JPHOT June 2020 7101109*

Fabry-Perot resonators

- A Multipurpose and Highly-Compact Plasmonic Filter Based on Metal-Insulator-Metal Waveguides. *Ebadi, S.M.*, +, *JPHOT June 2020 4800309*
- Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K.*, +, *JPHOT Feb. 2020 1500409*

- Simultaneous Generation of Multi-Channel Broadband Chaotic Signals Based on Two Unidirectionally Coupled WRC-FPLDs. *Hu, C.*, +, *JPHOT Oct. 2020 1504008*

- Ultrahigh-Resolution Fiber-Optic Sensing Based on High-Finesse, Meter-Long Fiber Fabry-Perot Resonators. *Hoque, N.M.R.*, +, *JPHOT June 2020 7101109*

Fading channels

- Capacity Maximization Using Nash Bargaining in Indoor Optical Multiuser Interference-Limited Poisson Channel. *Arya, S.*, +, *JPHOT Dec. 2020 7906712*
- Enhancing Secrecy Capacity in FSO Links via MISO Systems Through Turbulence-Induced Fading Channels With Misalignment Errors. *Boluda-Ruiz, R.*, +, *JPHOT Aug. 2020 7903313*
- Measurement Approaches and Implementation of a Fading Characterization Tester for Evaluating Optical Turbulent Channels. *Li, Y.*, +, *JPHOT Dec. 2020 7906915*
- On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference. *Erdogan, E.*, +, *JPHOT Feb. 2020 7900313*
- Performance Analysis of Dual-Hop RF-UWOC Systems. *Lei, H.*, +, *JPHOT April 2020 7901915*
- Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D.*, +, *JPHOT Dec. 2020 5502814*
- Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. *Zhang, J.*, +, *JPHOT April 2020 7902011*

Faraday effect

- A Dual-Frequency Faraday Laser. *Shi, T.*, +, *JPHOT Aug. 2020 1503211*
- Polarization Coupling Based on Faraday Effect in Whispering-Gallery-Mode Resonator. *Nie, Y.*, +, *JPHOT April 2020 5300107*
- Research on Three-Dimensional Magnetic Induced Error Model of Interferometric Fiber Optic Gyro. *Wang, Z.*, +, *JPHOT Oct. 2020 6802412*

Fast Fourier transforms

- Blind Frequency Offset Estimation Based on Phase Rotation For Coherent Transceiver. *Tan, Q.*, +, *JPHOT April 2020 7902212*
- Demonstration of Non-Hermitian Symmetry (NHS) IFFT/FFT Size Efficient OFDM Non-Orthogonal Multiple Access (NOMA) for Visible Light Communication. *Adnan, A.*, +, *JPHOT June 2020 7201405*

Feature extraction

- Design of Optimal Illumination Patterns in Single-Pixel Imaging Using Image Dictionaries. *Feng, J.*, +, *JPHOT Aug. 2020 6901509*
- Enhancement of Chest X-Ray Images to Improve Screening Accuracy Rate Using Iterated Function System and Multilayer Fractional-Order Machine Learning Classifier. *Lin, C.*, +, *JPHOT Aug. 2020 4100218*
- High-Accuracy Robot Indoor Localization Scheme Based on Robot Operating System Using Visible Light Positioning. *Guan, W.*, +, *JPHOT April 2020 7901716*
- Robust Imaging Photoplethysmography in Long-Distance Motion. *Kong, L.*, +, *JPHOT June 2020 3900512*
- Study on Rotation and Scaling Invariance of Retina-Like Imaging. *Hao, Q.*, +, *JPHOT Oct. 2020 3800110*

Feedforward neural networks

- High-Security Multi-Slot Chaos Encryption With Dynamic Probability for 16-CAP PON. *han, S.*, +, *JPHOT June 2020 7201510*

Fermi level

- Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V.*, +, *JPHOT Oct. 2020 4800913*
- Wide-Range Tunable Narrow Band-Stop Filter Based on Bilayer Graphene in the Mid-Infrared Region. *Wang, Y.*, +, *JPHOT Aug. 2020 7801009*

Fiber lasers

- A Chaotic State in the Transition From Single Toward Multiple Pulse for Soliton Fiber Lasers. *Du, Y.*, +, *JPHOT April 2020 3200112*
- A Comparative Study of Thermal Impact on Erbium Doped Distributed Feedback Fiber Laser Output Power. *Guo, J.*, +, *JPHOT April 2020 1502009*
- A Novel Repetition Rate Adjustable SBS-Based Q-Switched Fiber Laser. *Hou, S.*, +, *JPHOT April 2020 1501408*

All-Fiber Laser With Agile Mode-Switching Capability Through Intra-Cavity Conversion. *Wu, H., +, JPHOT April 2020 1500709*

An Erbium Fiber Laser With Single-Frequency Oscillation and Wavelength-Upconverted Output. *Yeh, C., +, JPHOT Oct. 2020 7102807*

Broadband Dispersion-Managed Dissipative Soliton and Structural Soliton Molecules in a Slight-Normal Dispersion Fiber Laser. *Wang, X., +, JPHOT Dec. 2020 3200510*

Compact, High-Performance All-Polarization-Maintaining Er: Fiber Frequency Comb With Single Fiber Actuator. *Cai, Y., +, JPHOT Aug. 2020 7102508*

Corrections to "Evolution of Soliton Rain in a TM-Doped Passive Mode-Locked All-Fiber Laser" [Aug 20 Art. no. 1503408]. *Wang, F., +, JPHOT Oct. 2020 9700101*

Dissipative Soliton Resonance in an All-Polarization Maintaining Fiber Laser With a Nonlinear Amplifying Loop Mirror. *Gong, Q., +, JPHOT June 2020 1502708*

Evolution of Soliton Rain in a Tm-doped Passive Mode-Locked All-Fiber Laser. *Wang, F., +, JPHOT Aug. 2020 1503408*

Formation and Evolution of Soliton in Two-Mode Fiber Laser. *Zheng, Y., +, JPHOT Aug. 2020 3200408*

Fourier and Inverse Fourier Transform Model for Delayed Self-interferometry System. *Zhang, L., +, JPHOT June 2020 5501511*

L-band Wavelength-Switchable Dissipative Soliton Resonance Er-doped Fiber Laser. *Liu, S., +, JPHOT April 2020 1501206*

Lead Sulfide Saturable Absorber Based Passively Mode-Locked Tm-Doped Fiber Laser. *Liu, F., +, JPHOT April 2020 1500910*

Multi-Wavelength SOA Fiber Laser With Ultra-Narrow Wavelength Spacing Based on NPR Effect. *Zhou, X., +, JPHOT Oct. 2020 7202408*

Nonlinear Polarization Evolution Mode-Locked YDFL Based on All-PM Fiber Cavity. *Wu, Z., +, JPHOT April 2020 1501807*

Nonlinear Spectrum Compression of Negatively Chirped Picosecond Pulses in Dispersion-Shifted Telecom Fiber. *Krylov, A., +, JPHOT April 2020 7100515*

Optical Property of Polarization-Maintaining Fiber Taper for Tunable Multi-Wavelength Fiber Laser Generation. *Yuan, F., +, JPHOT Feb. 2020 7100109*

Simulation for Generation of Several Types of Pulses in an Yb-Doped Mode-Locked Fiber Laser. *Cui, Y., +, JPHOT Dec. 2020 1504413*

Switchable Multi-Wavelength Thulium-Doped Fiber Laser Using Four-Mode Fiber Based Sagnac Loop Filter. *Guo, Y., +, JPHOT April 2020 7100610*

Theoretical Analysis of Heat Distribution in Raman Fiber Lasers and Amplifiers Employing Pure Passive Fiber. *Chen, Y., +, JPHOT Dec. 2020 1504713*

Tunable 2 μm Fiber Laser Utilizing a Modified Sagnac Filter Incorporating Cascaded Polarization Maintaining Fibers. *Chen, E., +, JPHOT Feb. 2020 1500507*

Tunable Multi-Wavelength Bright-Dark and Dark-Bright Pulse Pairs Fiber Lasers. *Xin, Y., +, JPHOT Dec. 2020 7103209*

Ultrafine Frequency Linearly Tunable Single-Frequency Fiber Laser Based on Intracavity Active Tuning. *Jin, L., +, JPHOT April 2020 1500806*

Vectorial Nature in Nonlinear Multimode Interference Based Ultrafast Fiber Lasers. *Xia, R., +, JPHOT April 2020 1501310*

Weak-Seed Induced Enhancement of Stimulated Raman Scattering in Distributed Side-Pumped Yb-Doped Fiber Amplifiers. *Chen, H., +, JPHOT Dec. 2020 7103412*

Fiber nonlinear optics

Theoretical Analysis of Heat Distribution in Raman Fiber Lasers and Amplifiers Employing Pure Passive Fiber. *Chen, Y., +, JPHOT Dec. 2020 1504713*

Fiber optic gyroscopes

Distributed Birefringence Measurement of a Polarization-Maintaining Fiber With an Extended Range Based on an Enhanced Brillouin Dynamic Grating. *Jiang, T., +, JPHOT Aug. 2020 7102607*

Research on Three-Dimensional Magnetic Induced Error Model of Interferometric Fiber Optic Gyro. *Wang, Z., +, JPHOT Oct. 2020 6802412*

Fiber optic sensors

A Demodulation Method of Spatial Domain for Low-Coherence Interferometry With High Accuracy and Adaptability. *Wang, C., +, JPHOT April 2020 6801111*

A Low Loss Quantum-Dot-Doped Optical Fiber Temperature Sensor Based on Flexible Print Technology. *Zhang, G., +, JPHOT June 2020 7101008*

A POTDR System Based on Dual Sensing Directions. *Xiong, B., +, JPHOT April 2020 7100708*

A Surface Plasmon Resonance Temperature Sensing Unit Based on a Graphene Oxide Composite Photonic Crystal Fiber. *Liang, H., +, JPHOT June 2020 7201811*

An Enhanced Distributed Acoustic Sensor With Large Temperature Tolerance Based on Ultra-Weak Fiber Bragg Grating Array. *Li, C., +, JPHOT Aug. 2020 7202211*

An Optical Fiber Twist Sensor With Temperature Compensation Mechanism Based on T-SMS Structure. *Li, Y., +, JPHOT Feb. 2020 6800308*

Distributed Birefringence Measurement of a Polarization-Maintaining Fiber With an Extended Range Based on an Enhanced Brillouin Dynamic Grating. *Jiang, T., +, JPHOT Aug. 2020 7102607*

Effect of Laser Polarization on Fiber Bragg Grating Fabry-Perot Interferometer for Ultrasound Detection. *Zhu, Y., +, JPHOT Aug. 2020 7102408*

Employing Higher Order Cladding Modes of Fiber Bragg Grating for Analysis of Refractive Index Change in Volume and at the Surface. *Bandyopadhyay, S., +, JPHOT Feb. 2020 7100313*

Gold-Diaphragm Based Fabry-Perot Ultrasonic Sensor for Partial Discharge Detection and Localization. *Zhang, W., +, JPHOT June 2020 6801612*

Highly Sensitive FBG Strain Sensor With Enhanced Measurement Range Based On Higher Order FWM. *Ghosh, C., +, JPHOT Feb. 2020 6800407*

Intrusion Discrimination in Terms of LMD and ICA With Combined Features in The Fiber-Optic Perimeter System. *Li, M., +, JPHOT April 2020 7101414*

K-Band Centralized Cost-Effective All-Optical Sensing Signal Distribution Network. *Esmail, M.A., +, JPHOT Dec. 2020 7202510*

Magnetic Fluid Infiltrated Microbottle Resonator Sensor With Axial Confined Mode. *Hou, F., +, JPHOT Oct. 2020 6802709*

Multi-Channel Photonic Crystal Fiber Based Surface Plasmon Resonance Sensor for Multi-Analyte Sensing. *Yasli, A., +, JPHOT Feb. 2020 6800515*

Optimized Support Vector Machine Assisted BOTDA for Temperature Extraction With Accuracy Enhancement. *Zhu, H., +, JPHOT Feb. 2020 6800214*

Orthogonal Phase Demodulation of Optical Fiber Fabry-Perot Interferometer Based on Birefringent Crystals and Polarization Technology. *Huang, Y., +, JPHOT June 2020 7101209*

Tapered Polymer Fiber Inclinoimeters. *Lee, C., +, JPHOT June 2020 7100910*

Ultrahigh-Resolution Fiber-Optic Sensing Based on High-Finesse, Meter-Long Fiber Fabry-Perot Resonators. *Hoque, N.M.R., +, JPHOT June 2020 7101109*

Versatile Vibration Sensing Using a Tapered Photonic Crystal Fiber With a Featured Core. *Yu, H., +, JPHOT April 2020 6801310*

Fiber optics

Analytic Expressions for Orbital Angular Momentum Modal Crosstalk in a Slightly Elliptical Fiber. *Bhandari, R., JPHOT Dec. 2020 7202621*

Fibonacci sequences

Quasiperiodic Dielectric Gratings for Multiband Fiber-To-Chip Couplers. *Picin, O.J., +, JPHOT Oct. 2020 7103010*

Field programmable gate arrays

A Precise High Count-Rate FPGA Based Multi-Channel Coincidence Counting System for Quantum Photonics Applications. *Arabul, E., +, JPHOT April 2020 7500114*

Demonstration of a 2.34 Gbit/s Real-Time Single Silicon-Substrate Blue LED-Based Underwater VLC System. *Chen, M., +, JPHOT Feb. 2020 7900211*

Design of the Real-Time Single-Photodiode Digital Coherent Receiver Suitable for Free Space Optical Communication. *Zhou, K., +, JPHOT Oct. 2020 7905412*

Optical Multi-Context Blind Scrubbing for Field Programmable Gate Arrays. *Takaki, Y., +, JPHOT Dec. 2020 7801411*

Filtering theory

Broadband Microwave Spectrum Sensing Based on Photonic RF Channelization and Compressive Sampling. *Yang, B., +, JPHOT Feb. 2020 5500109*

Non-Line-of-Sight Location With Gauss Filtering Algorithm Based on a Model of Photon Flight. *Ren, Y., +, JPHOT June 2020 7000615*

Sand-Dust Image Restoration Based on Reversing the Blue Channel Prior. *Gao, G., +, JPHOT April 2020 3900216*

Finite difference time-domain analysis

A Performance Study of Dielectric Metalens with Process-Induced Defects. *Zhou, Y., +, JPHOT June 2020 4500414*

Design and Analysis of Asymmetric Capsule-Shaped Metallic Cavities for Unidirectional Waveguide Coupling. *Zhang, B., +, JPHOT Dec. 2020 2201008*

Faster and More Accurate Time Domain Electromagnetic Simulation Using Space Transformation. *Kazemzadeh, M., +, JPHOT Aug. 2020 4800513*

Light Extraction Efficiency of GaN-Based Micro-Scale Light-Emitting Diodes Investigated Using Finite-Difference Time-Domain Simulation. *Ryu, H., +, JPHOT April 2020 1600110*

Phase-Matched Mid-Infrared Difference Frequency Generation Using a Nanostructured Gallium Arsenide Metamaterial With Nanoholes. *Otman, N.A., +, JPHOT June 2020 5900110*

Quasiperiodic Dielectric Gratings for Multiband Fiber-To-Chip Couplers. *Picin, O.J., +, JPHOT Oct. 2020 7103010*

Sidewall Profile Dependent Nanostructured Ultrathin Solar Cells With Enhanced Light Trapping Capabilities. *Sun, T., +, JPHOT Feb. 2020 8400112*

Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides. *Zhang, B., +, JPHOT April 2020 6600610*

Tunable Anisotropic Perfect Enhancement Absorption in Black Phosphorus-Based Metasurfaces. *Tang, B., +, JPHOT June 2020 4500209*

Ultra-Broadband, Fabrication Tolerant Optical Coupler for Arbitrary Splitting Ratio Using Particle Swarm Optimization Algorithm. *Leng, L., +, JPHOT Oct. 2020 6602212*

Ultra-Low Index-Contrast Polymeric Photonic Crystal Nanobeam Electro-Optic Modulator. *Li, X., +, JPHOT June 2020 4900208*

Finite element analysis

A New Hybrid Finite Element Method: Electromagnetic Propagation in Bent Waveguides. *Torres, J.P.N., +, JPHOT Feb. 2020 5500413*

Energy-Stable Time-Domain Finite Element Methods for the 3D Nonlinear Maxwell's Equations. *Anees, A., +, JPHOT April 2020 6500415*

Faster and More Accurate Time Domain Electromagnetic Simulation Using Space Transformation. *Kazemzadeh, M., +, JPHOT Aug. 2020 4800513*

Inverse Design of a Taper by Scatter Search Metaheuristic. *Franca-Vieira, L., +, JPHOT Aug. 2020 4501409*

Low Power Consumption Mode Switch Based on Three-Dimensional Polymer Mach-Zehnder Interferometer. *Lv, J., +, JPHOT June 2020 7800810*

Multi-Channel Photonic Crystal Fiber Based Surface Plasmon Resonance Sensor for Multi-Analyte Sensing. *Yasli, A., +, JPHOT Feb. 2020 6800515*

Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays. *Wang, Z., +, JPHOT June 2020 4800410*

Propagation Operator Based Boundary Condition for Finite Element Analysis. *Morimoto, K., +, JPHOT Aug. 2020 6601713*

Refractive Index Nanosensor With Simple Structure Based on Fano Resonance. *Guo, J., +, JPHOT Aug. 2020 4800710*

Research on Three-Dimensional Magnetic Induced Error Model of Interferometric Fiber Optic Gyro. *Wang, Z., +, JPHOT Oct. 2020 6802412*

The Simulation of Vortex Modes in Twisted Few-Mode Fiber With Inverse-Parabolic Index Profile. *Zhang, Z., +, JPHOT June 2020 7101908*

Ultra-Low Index-Contrast Polymeric Photonic Crystal Nanobeam Electro-Optic Modulator. *Li, X., +, JPHOT June 2020 4900208*

FIR filters

Integrated Optical Delay Line Based on a Loopback Arrayed Waveguide Grating for Radio-frequency Filtering. *Wang, X., +, JPHOT June 2020 6600911*

Fluorescence

A Low Loss Quantum-Dot-Doped Optical Fiber Temperature Sensor Based on Flexible Print Technology. *Zhang, G., +, JPHOT June 2020 7101008*

Compressive Optical Spectrometry Based on Sequency-Ordered Hadamard Transform. *Zhang, Y., +, JPHOT Oct. 2020 3900908*

Multiple Kinds of Pesticides Detection Based on Back-Propagation Neural Network Analysis of Fluorescence Spectra. *Bian, H., +, JPHOT April 2020 6801009*

Restoration of Out-of-Focus Fluorescence Microscopy Images Using Learning-Based Depth-Variant Deconvolution. *He, D., +, JPHOT April 2020 3900113*

Stacked Encapsulation Structure for Discretely Distributed Quantum Dot Array. *Cai, J., +, JPHOT April 2020 7000310*

Ultraviolet-Extended Supercontinuum Generation in Zero-Dispersion Wavelength Decreasing Photonic Crystal Fibers. *Bi, W., +, JPHOT Dec. 2020 3200608*

Focal planes

Direct and Practical Identification for Back Focal Plane Based Surface Plasmon Microscopy. *Zhang, B., +, JPHOT Feb. 2020 6900208*

Photonic Wheels and Their Topological Reaction in a Strongly Focused Amplitude Tailored Beam. *Miao, W., +, JPHOT April 2020 6500709*

Tip/tilt Alignment for a Fizeau Interferometer via Defocus-Based Sub-Spot Separation. *Lv, W., +, JPHOT Dec. 2020 3901113*

Focusing

Detection of Polarization and Topological Charge Based on Multidimensional Field of Metasurface. *Luan, J., +, JPHOT Dec. 2020 4601510*

Fog

Fast Visibility Restoration Using a Single Degradation Image in Scattering Media. *Wang, Y., +, JPHOT June 2020 6100813*

Forward error correction

56 Gbit/s OOK Signal in C-band Over 20 km Dispersion-Uncompensated Link Transmission With Receiver-Side EDC Algorithm. *Liang, W., +, JPHOT Oct. 2020 7905707*

Adaptive Blind Stokes-Space Based Equalizer for RSOP in SV-DD Systems With High Chromatic Dispersion Tolerance. *Jin, Y., +, JPHOT April 2020 7200913*

Blind Frequency Offset Estimation Based on Phase Rotation For Coherent Transceiver. *Tan, Q., +, JPHOT April 2020 7902212*

Color-Shift-Keying Embedded Direct-Current Optical-Orthogonal-Frequency-Division-Multiplexing (CSK-DCO-OFDM) for Visible Light Communications (VLC). *Gunawan, W.H., +, JPHOT Oct. 2020 7905205*

Demonstration of a 2.34 Gbit/s Real-Time Single Silicon-Substrate Blue LED-Based Underwater VLC System. *Chen, M., +, JPHOT Feb. 2020 7900211*

HyperSight: A Precise Decoding Algorithm for VLC With Mobile-Phone Camera. *Meng, Y., +, JPHOT Aug. 2020 7904211*

Injection-Locked Quantum-Dash Laser in Far L-Band 192 Gbit/s DWDM Transmission. *Khan, M.Z.M., +, JPHOT Oct. 2020 1504211*

Nonlinear Resilient Learning Method Based on Joint Time-Frequency Image Analysis in Underwater Visible Light Communication. *Chen, H., +, JPHOT April 2020 7901610*

Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F., +, JPHOT Aug. 2020 7904512*

Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D., +, JPHOT Dec. 2020 5502814*

SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs. *Zhang, X., +, JPHOT June 2020 7903113*

Terahertz-Wave Generation Based on Optical Frequency Comb and Single Mach-Zehnder Modulator. *Yu, J., +, JPHOT Feb. 2020 7900808*

Four-wave mixing

Highly Nonlinear Organic-Silicon Slot Waveguide for Ultrafast Multimode All-Optical Logic Operations. *Wang, Y., +, JPHOT Dec. 2020 3200712*

Fourier transform optics

A Hybrid Algorithm for Multi-Beam Steering of LCOS-Based Wavelength Selective Switch. *Gao, Y., +, JPHOT June 2020 7903011*

Formation and Evolution of Soliton in Two-Mode Fiber Laser. *Zheng, Y., +, JPHOT Aug. 2020 3200408*

Frequency-Sweep-Range-Reconfigurable Complementary Linearly Chirped Microwave Waveform Pair Generation by Using a Fourier Domain Mode Locking Optoelectronic Oscillator Based on Stimulated Brillouin Scattering. *Zhang, L., +, JPHOT June 2020 5501010*

Generation of Phase-Only Fourier Hologram Based on Double Phase Method and Quantization Error Analysis. *Wu, Y., +, JPHOT Oct. 2020 7000913*

High-Throughput Deep Learning Microscopy Using Multi-Angle Super-Resolution. *Zhang, J., +, JPHOT April 2020 6900914*

Hybrid Angular Gradient Phase Grating for Measuring the Orbital Angular Momentum of Perfect Optical Vortex Beams. *Chu, C., +, JPHOT June 2020 7902409*

Momentum-Accelerated Incoherent Fourier Ptychographic Photography. *Wei, W., +, JPHOT April 2020 3900414*

Temporal Ghost Imaging by Means of Fourier Spectrum Acquisition. *Huang, H., +, JPHOT Oct. 2020 6803012*

Vectorial Nature in Nonlinear Multimode Interference Based Ultrafast Fiber Lasers. *Xia, R., +, JPHOT April 2020 1501310*

Fourier transforms

Formation and Evolution of Soliton in Two-Mode Fiber Laser. *Zheng, Y., +, JPHOT Aug. 2020 3200408*

Fourier and Inverse Fourier Transform Model for Delayed Self-interferometry System. *Zhang, L., +, JPHOT June 2020 5501511*

Light Diffraction From a Flexible Patterned Layer With Periodically Arranged Dimples. *Haldar, A., +, JPHOT Oct. 2020 2700210*

Study on Rotation and Scaling Invariance of Retina-Like Imaging. *Hao, Q., +, JPHOT Oct. 2020 3800110*

Temporal Ghost Imaging by Means of Fourier Spectrum Acquisition. *Huang, H., +, JPHOT Oct. 2020 6803012*

Free-space optical communication

A Dimmable OFDM Scheme With Dynamic Subcarrier Activation for VLC. *Wang, C., +, JPHOT Feb. 2020 7900112*

A Novel Method for Constructing VLC Equalizer With Active-Passive Hybrid Network. *Min, C., +, JPHOT April 2020 7500310*

A Transceiver Design Based on an Autoencoder Network for Multi-Color VLC Systems. *Zhang, D., +, JPHOT June 2020 7902716*

A Tunable Energy Signal for Intensity Modulation and Direct Detection Systems: Theory, Simulations, and Experiments. *Vejanla, K., +, JPHOT Feb. 2020 7900412*

AquaE-lite Hybrid-Solar-Cell Receiver-Modality for Energy-Autonomous Terrestrial and Underwater Internet-of-Things. *Kong, M., +, JPHOT Aug. 2020 7904713*

Atmospheric Turbulence Suppression Algorithm Based on APD Adaptive Gain Control for FSO Links of 5G Floating Base Stations. *Yu, X., +, JPHOT Aug. 2020 7904011*

Characterization of Field of View in Visible Light Communication Systems for Intelligent Transportation Systems. *Seminara, M., +, JPHOT Aug. 2020 7903816*

CNN-Based Phase Matching for the OAM Mode Selection in Turbulence Heterodyne Coherent Mitigation Links. *Yang, C., +, JPHOT Dec. 2020 7905913*

Color-Shift-Keying Embedded Direct-Current Optical-Orthogonal-Frequency-Division-Multiplexing (CSK-DCO-OFDM) for Visible Light Communications (VLC). *Gunawan, W.H., +, JPHOT Oct. 2020 7905205*

Comprehensive Physical Layer Security Analysis of FSO Communications Over Málaga Channels. *Ai, Y., +, JPHOT Dec. 2020 7906617*

Demonstration of Non-Hermitian Symmetry (NHS) IFFT/FFT Size Efficient OFDM Non-Orthogonal Multiple Access (NOMA) for Visible Light Communication. *Adnan, A., +, JPHOT June 2020 7201405*

Design and Investigation of 10 Gb/s FSO Wiretap Channel Using OCDMA Time-Diversity Reception. *Ji, J., +, JPHOT June 2020 7903212*

Design of the Real-Time Single-Photodiode Digital Coherent Receiver Suitable for Free Space Optical Communication. *Zhou, K., +, JPHOT Oct. 2020 7905412*

Dynamic Physical-Layer Secured Link in a Mobile MIMO VLC System. *Younis, O.I., +, JPHOT June 2020 7902814*

Enhancement of SOA-Based Scintillation Mitigation by PS-OOK Transmission in FSO Communication. *Hong, Y., +, JPHOT Aug. 2020 7903510*

Enhancing Secrecy Capacity in FSO Links via MISO Systems Through Turbulence-Induced Fading Channels With Misalignment Errors. *Boluda-Ruiz, R., +, JPHOT Aug. 2020 7903313*

Fast Detection and Tracking of a Moving Transmitter via Visible Light Communication Link. *Ahmed, M., +, JPHOT Aug. 2020 7904414*

Free-Space Communication Turbulence Compensation by Optical Phase Conjugation. *Chen, J., +, JPHOT Oct. 2020 7905611*

Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays. *Arvanitakis, G.N., +, JPHOT April 2020 7901210*

Generalized Likelihood Block Detection for SPAD-Based Underwater VLC System. *Ji, Y., +, JPHOT Feb. 2020 7900510*

Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz. *Vallejo, L., +, JPHOT Feb. 2020 5500309*

Indoor High Precision Three-Dimensional Positioning System Based on Visible Light Communication Using Improved Hybrid Bat Algorithm. *Chen, Y., +, JPHOT Oct. 2020 6802513*

Light-Emitting Commutating Diodes for Optical Wireless Communications Within LED Drivers. *Pawlikowski, W., +, JPHOT Oct. 2020 7905111*

Measurement Approaches and Implementation of a Fading Characterization Tester for Evaluating Optical Turbulent Channels. *Li, Y., +, JPHOT Dec. 2020 7906915*

Multi-Antenna GNSS-Over-Fiber Architecture for Extensive Remote Multi-Baseline Network. *Liu, P., +, JPHOT June 2020 5501210*

Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas. *Migllani, R., +, JPHOT Aug. 2020 7904621*

Neural Successive Cancellation Polar Decoder With Tanh-Based Modified LLR Over FSO Turbulence Channel. *Fang, J., +, JPHOT Dec. 2020 7906110*

Nonlinear Resilient Learning Method Based on Joint Time-Frequency Image Analysis in Underwater Visible Light Communication. *Chen, H., +, JPHOT April 2020 7901610*

OFDM With Differential Index Modulation for Visible Light Communication. *Zheng, D., +, JPHOT Feb. 2020 7900708*

Optimizing Handover Parameters by Q-Learning for Heterogeneous Radio-Optical Networks. *Shao, S., +, JPHOT Feb. 2020 7900615*

Orthogonal Time-Frequency Multiplexing With 2D Hermitian Symmetry for Optical-Wireless Communications. *Zhong, J., +, JPHOT April 2020 7901110*

Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F., +, JPHOT Aug. 2020 7904512*

Performance Limits for Fingerprinting-Based Indoor Optical Communication Positioning Systems Exploiting Multipath Reflections. *Hosseiniyanfar, H., +, JPHOT Aug. 2020 7903416*

Phase Alignment With Minimum Complexity for Equal Gain Combining in Multi-Aperture Free-Space Digital Coherent Optical Communication Receivers. *Tu, Y., +, JPHOT April 2020 7901410*

Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D., +, JPHOT Dec. 2020 5502814*

Pre-Distorted Enhanced ADO-OFDM for Hybrid VLC Networks: A Mutual-Interference-Free Approach. *Huang, X., +, JPHOT April 2020 7901512*

Rate Analysis of Intensity Modulated Broadcast Optical Mobile Communication System With User Mobility. *Gao, J., +, JPHOT Oct. 2020 7905312*

Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. *Zhang, J., +, JPHOT April 2020 7902011*

Should Analogue Pre-Equalisers be Avoided in VLC Systems?. *Li, X., +, JPHOT April 2020 7901014*

Spatial Multiplexing MIMO Visible Light Communications With Densely Distributed LEDs and PDs. *Zheng, D., +, JPHOT Oct. 2020 7905807*

The Link Attenuation Model Based on Monte Carlo Simulation for Laser Transmission in Fog Channel. *Hu, S., +, JPHOT Aug. 2020 6100910*

User-Centric Access Scheme Based on Interference Management for Indoor VLC-WIFI Heterogeneous Networks. *Liu, H.*, +, *JPHOT Aug. 2020 7903712*

Frequency conversion

Tunable Photonic Microwave Up-Converter Using Opto-Electronic Oscillator Based on Monolithic Integrated Three-Section Laser. *Meng, X.*, +, *JPHOT Dec. 2020 5502909*

Frequency diversity

High SNR Φ -OTDR Based on Frequency and Wavelength Diversity With Differential Vector Aggregation Method. *Gu, J.*, +, *JPHOT Dec. 2020 7103612*

Frequency division multiplexing

56 Gbit/s OOK Signal in C-band Over 20 km Dispersion-Uncompensated Link Transmission With Receiver-Side EDC Algorithm. *Liang, W.*, +, *JPHOT Oct. 2020 7905707*

Frequency hop communication

Real-Time RF Multi-Dimensional Signal Switching Using Polarization-Dependent Optical Mixing. *Liu, Q.*, +, *JPHOT April 2020 5500808*

Frequency measurement

A Microwave Frequency Measurement System Based on Si₃N₄ Ring-Assisted Mach-Zehnder Interferometer. *Zhang, H.*, +, *JPHOT Aug. 2020 7102213*

A Photonic Approach for Doppler Frequency Shift Measurement With Dispersion Medium. *Yi, C.*, +, *JPHOT Oct. 2020 7102708*

Instantaneous Microwave Frequency Measurement Based on Two Cascaded Photonic Crystal Nanocavities. *Liu, L.*, +, *JPHOT Dec. 2020 4501809*

Frequency modulation

Photonics-Assisted Bandwidth-Doubling Dual-Chirp Microwave Signal Generation With Freely-Tunable Central Frequency. *Zhang, L.*, +, *JPHOT Aug. 2020 5501611*

Tunable Photonic Microwave Up-Converter Using Opto-Electronic Oscillator Based on Monolithic Integrated Three-Section Laser. *Meng, X.*, +, *JPHOT Dec. 2020 5502909*

Wideband and Ambiguous-Free RF Channelizer Assisted Jointly by Spacing and Profile of Optical Frequency Comb. *Lu, X.*, +, *JPHOT June 2020 5500911*

Frequency response

An Enhanced Distributed Acoustic Sensor With Large Temperature Tolerance Based on Ultra-Weak Fiber Bragg Grating Array. *Li, C.*, +, *JPHOT Aug. 2020 7202211*

Impact of Analog and Digital Pre-Emphasis on the Signal-to-Noise Ratio of Bandwidth-Limited Optical Transceivers. *Zhou, Z.*, +, *JPHOT April 2020 7200712*

Frequency shift keying

Photonic Approach for Generation and Fast Switching of Binary Digitally Modulated RF Signals. *Feng, X.*, +, *JPHOT Oct. 2020 5502208*

Reconfigurable Photonic Generation of Binary Modulated Microwave Signals. *Ma, J.*, +, *JPHOT Dec. 2020 5503010*

Frequency-domain analysis

Design of the Real-Time Single-Photodiode Digital Coherent Receiver Suitable for Free Space Optical Communication. *Zhou, K.*, +, *JPHOT Oct. 2020 7905412*

Influence of the Demultiplexer on Channel-Interleaved Photonic Analog-to-Digital Converters. *Qian, N.*, +, *JPHOT Oct. 2020 5502110*

Spectrum Intensity Ratio Detection for Frequency Domain Weak Measurement System. *Yang, Y.*, +, *JPHOT Aug. 2020 7800912*

Fresnel diffraction

High Precision Fabrication Method of Fresnel Diffractive Lenses on Ultrathin Membrane for Imaging Application. *Liu, X.*, +, *JPHOT Aug. 2020 2400310*

G

Gain control

Atmospheric Turbulence Suppression Algorithm Based on APD Adaptive Gain Control for FSO Links of 5G Floating Base Stations. *Yu, X.*, +, *JPHOT Aug. 2020 7904011*

Gallium arsenide

3D Simple Monte Carlo Statistical Model for GaAs Nanowire Single Photon Avalanche Diode. *Xie, S.*, +, *JPHOT Aug. 2020 6802008*

High-Efficiency Pulse Width Modulation-Based Wireless Laser Power Transmission Step-Down System. *Wang, Y.*, +, *JPHOT April 2020 8400214*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D.*, +, *JPHOT Dec. 2020 1504612*

Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y.*, +, *JPHOT April 2020 2400207*

Optical Gain Characteristics of BGaAs/GaP Quantum Wells. *Maczko, H.S.*, +, *JPHOT Aug. 2020 6101013*

Phase-Matched Mid-Infrared Difference Frequency Generation Using a Nanostructured Gallium Arsenide Metamaterial With Nanoholes. *Oman, N.A.*, +, *JPHOT June 2020 5900110*

Vertical Second Harmonic Generation in Asymmetric Dielectric Nanoantennas. *Rocco, D.*, +, *JPHOT June 2020 4500507*

Gallium compounds

450 nm Gallium Nitride Alternating Current Light-Emitting Diode. *Hartensveld, M.*, +, *JPHOT Dec. 2020 8200906*

Blue Laser Diode System With an Enhanced Wavelength Tuning Range. *Mukhtar, S.*, +, *JPHOT April 2020 1502110*

Effects of Lateral Optical Confinement In GaN VCSELs With Double Dielectric DBRs. *Xu, R.*, +, *JPHOT April 2020 1501708*

Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M.*, +, *JPHOT June 2020 8200408*

Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays. *Arvanitakis, G.N.*, +, *JPHOT April 2020 7901210*

High-Performance Semi-Polar InGaN/GaN Green Micro Light-Emitting Diodes. *Xu, F.*, +, *JPHOT Feb. 2020 2500107*

Improved Performance of Passive-Matrix Micro-LED Displays Using a Multi-Function Passivation Structure. *Chen, P.*, +, *JPHOT Aug. 2020 7000711*

Light Extraction Efficiency of GaN-Based Micro-Scale Light-Emitting Diodes Investigated Using Finite-Difference Time-Domain Simulation. *Ryu, H.*, +, *JPHOT April 2020 1600110*

Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y.*, +, *JPHOT April 2020 2400207*

On the Impact of Electron Leakage on the Efficiency Droop for AlGaIn Based Deep Ultraviolet Light Emitting Diodes. *Chu, C.*, +, *JPHOT June 2020 1600207*

Optical Gain Characteristics of BGaAs/GaP Quantum Wells. *Maczko, H.S.*, +, *JPHOT Aug. 2020 6101013*

Polarization Enhanced GaN Avalanche Photodiodes With p-type In_{0.05}Ga_{0.95}N Layer. *Wang, H.*, +, *JPHOT Feb. 2020 6800606*

Temperature-Dependent Carrier Recombination and Efficiency Droop of AlGaIn Deep Ultraviolet Light-Emitting Diodes. *Peng, Z.*, +, *JPHOT Feb. 2020 8200108*

The Impact of Resonance on the Light Extraction Efficiency of Single Nanowire Ultraviolet Light Emitting Diodes. *Zhang, Z.*, +, *JPHOT Aug. 2020 8200610*

Ultraviolet Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M.*, +, *JPHOT Oct. 2020 8200808*

Gallium nitride

Extended Electrical and Photonic Characterization of GaN-Based Ultra-Violet MicroLEDs With an ITO Emission Window Layer. *Tsai, Y.*, +, *JPHOT Dec. 2020 2400409*

Games

Capacity Maximization Using Nash Bargaining in Indoor Optical Multiuser Interference-Limited Poisson Channel. *Arya, S.*, +, *JPHOT Dec. 2020 7906712*

Gamma distribution

Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. *Zhang, J.*, +, *JPHOT April 2020 7902011*

Gas sensors

EWT-ASG: Empirical Wavelet Transform With Adaptive Savitzky–Golay Filtering for TDLAS. *He, J., +, JPHOT June 2020 7800712*

Simultaneous Mid-Infrared Gas Sensing and Upconversion Based on Third Harmonic Generation in Cascaded Waveguides. *Pan, J., +, JPHOT April 2020 6800912*

Gaussian distribution

Image Compression-Encryption Scheme via Fiber Specklegram-Based Compressive Sensing and Double Random Phase Encoding. *Liu, Y., +, JPHOT Aug. 2020 7102311*

Gaussian processes

A Novel Phase Noise Suppression Scheme Utilizing Gaussian Wavelet Basis Expansion for PDM CO-OFDM Superchannel. *Chen, Y., +, JPHOT April 2020 7902309*

Non-Line-of-Sight Location With Gauss Filtering Algorithm Based on a Model of Photon Flight. *Ren, Y., +, JPHOT June 2020 7000615*

Genetic algorithms

A Hybrid Algorithm for Multi-Beam Steering of LCOS-Based Wavelength Selective Switch. *Gao, Y., +, JPHOT June 2020 7903011*

Conveyor X-Ray Tomosynthesis Imaging With Optimized Structured Sequential Illumination. *Ma, X., +, JPHOT Oct. 2020 3400217*

Efficient Optical Spatial First-Order Differentiator Based on Graphene-Based Metalines and Evolutionary Algorithms. *Zhang, T., +, JPHOT April 2020 4800210*

Investigation on Circadian Action and Color Quality in Laser-Based Illuminant for General Lighting and Display. *Lei, S., +, JPHOT Aug. 2020 8200509*

Machine-Learning Assisted Prediction of Spectral Power Distribution for Full-Spectrum White Light-Emitting Diode. *Fan, J., +, JPHOT Feb. 2020 8200218*

Optimized Support Vector Machine Assisted BOTDA for Temperature Extraction With Accuracy Enhancement. *Zhu, H., +, JPHOT Feb. 2020 6800214*

Geometrical optics

Surface Micro-Reflector Array for Augmented Reality Display. *Yan, Z., +, JPHOT April 2020 7000209*

The Impact of Resonance on the Light Extraction Efficiency of Single Nanowire Ultraviolet Light Emitting Diodes. *Zhang, Z., +, JPHOT Aug. 2020 8200610*

Geometry

Energy-Stable Time-Domain Finite Element Methods for the 3D Nonlinear Maxwell's Equations. *Anees, A., +, JPHOT April 2020 6500415*

Geophysical techniques

Noise Suppression of Distributed Acoustic Sensing Based on f - x Deconvolution and Wavelet Transform. *Sun, W., +, JPHOT Feb. 2020 7800208*

Germanium

High-Performance Microring Resonator Ge-on-Si Photodetectors by Optimizing Absorption Layer Length. *Cui, J., +, JPHOT Aug. 2020 6802208*

Tunable Germanium-on-Insulator Band-Stop Optical Filter Using Thermo-Optic Effect. *Ho, C.P., +, JPHOT April 2020 6600307*

Germanium compounds

Impact of Temperature and Doping on the Performance of Ge/Ge_{1-x}Sn_x/Ge Heterojunction Phototransistors. *Kumar, H., +, JPHOT June 2020 6801814*

Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides. *Zhang, B., +, JPHOT April 2020 6600610*

Switchable Quarter-Wave Plate and Half-Wave Plate Based on Phase-Change Metasurface. *Li, Y., +, JPHOT April 2020 4600410*

Glass

Theoretical and Numerical Analysis for Design of High Ratio Fiber Optic Taper Drawing Process. *Liu, J., +, JPHOT Dec. 2020 7103712*

Gold

A Mid-Infrared Dual-Band Filter With Ultra-High Resolving Power. *He, X., +, JPHOT Aug. 2020 2200410*

A Surface Plasmon Resonance Temperature Sensing Unit Based on a Graphene Oxide Composite Photonic Crystal Fiber. *Liang, H., +, JPHOT June 2020 7201811*

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K., +, JPHOT Oct. 2020 2200611*

Gold-Diaphragm Based Fabry-Perot Ultrasonic Sensor for Partial Discharge Detection and Localization. *Zhang, W., +, JPHOT June 2020 6801612*

Multi-Channel Photonic Crystal Fiber Based Surface Plasmon Resonance Sensor for Multi-Analyte Sensing. *Yasli, A., +, JPHOT Feb. 2020 6800515*

Optical Trapping and Separation of Metal Nanoparticles by Cylindrical Metalenses With Phase Gradients. *Shen, Z., +, JPHOT Aug. 2020 4600810*

Tapered Polymer Fiber Inclometers. *Lee, C., +, JPHOT June 2020 7100910*

Tunable and Reconfigurable Dual-Band Chiral Metamirror. *Fan, J., +, JPHOT Oct. 2020 4601108*

Gradient index optics

Compact, High-Performance All-Polarization-Maintaining Er: Fiber Frequency Comb With Single Fiber Actuator. *Cai, Y., +, JPHOT Aug. 2020 7102508*

Spatial Beam Self-Cleaning in Tapered Yb-Doped GRIN Multimode Fiber With Decelerating Nonlinearity. *Niang, A., +, JPHOT April 2020 6500308*

The Simulation of Vortex Modes in Twisted Few-Mode Fiber With Inverse-Parabolic Index Profile. *Zhang, Z., +, JPHOT June 2020 7101908*

Vectorial Nature in Nonlinear Multimode Interference Based Ultrafast Fiber Lasers. *Xia, R., +, JPHOT April 2020 1501310*

Grain growth

Effects of Grain Morphology on Nonlinear Conversion Efficiency of Random Quasi-Phase Matching in Polycrystalline Materials. *Liu, K., +, JPHOT Dec. 2020 2200910*

Grain size

Effects of Grain Morphology on Nonlinear Conversion Efficiency of Random Quasi-Phase Matching in Polycrystalline Materials. *Liu, K., +, JPHOT Dec. 2020 2200910*

Graphene

Efficient Optical Spatial First-Order Differentiator Based on Graphene-Based Metalines and Evolutionary Algorithms. *Zhang, T., +, JPHOT April 2020 4800210*

Electro-Absorption Optical Modulator Based on Graphene-Buried Polymer Waveguides. *Lian, T., +, JPHOT Aug. 2020 6601610*

Entanglement of Microwave and Optical Fields Using Electrical Capacitor Loaded With Plasmonic Graphene Waveguide. *Qasymeh, M., +, JPHOT April 2020 7500212*

Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber. *Li, G., +, JPHOT April 2020 1501009*

High Sensitivity Terahertz Biosensor Based on Goos-Hänchen Effect in Graphene. *Liu, J., +, JPHOT April 2020 6801206*

Low Power Consumption Mode Switch Based on Three-Dimensional Polymer Mach-Zehnder Interferometer. *Lv, J., +, JPHOT June 2020 7800810*

Probing Composite Vibrational Fingerprints in the Terahertz Range With Graphene Split Ring Resonator. *Mao, X., +, JPHOT Oct. 2020 5900408*

Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V., +, JPHOT Oct. 2020 4800913*

Wide-Range Tunable Narrow Band-Stop Filter Based on Bilayer Graphene in the Mid-Infrared Region. *Wang, Y., +, JPHOT Aug. 2020 7801009*

Graphene compounds

A Surface Plasmon Resonance Temperature Sensing Unit Based on a Graphene Oxide Composite Photonic Crystal Fiber. *Liang, H., +, JPHOT June 2020 7201811*

Graphene devices

Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V., +, JPHOT Oct. 2020 4800913*

Graphite

Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber. *Li, G., +, JPHOT April 2020 1501009*

Gratings

Dimensional Transformations of Guided-Mode Resonant Photonic Lattices. *Watanabe, A., +, JPHOT Dec. 2020 4502108*

Gray codes

On-Chip Low-Power Gray Code Generation Based on Opto-Mechanical Microring Resonators. *Liu, L., +, JPHOT June 2020 4500312*

Ground states

A Dual-Frequency Faraday Laser. *Shi, T., +, JPHOT Aug. 2020 1503211*

H**Hadamard matrices**

Compressive Optical Spectrometry Based on Sequency-Ordered Hadamard Transform. *Zhang, Y., +, JPHOT Oct. 2020 3900908*

Hadamard transforms

Compressive Optical Spectrometry Based on Sequency-Ordered Hadamard Transform. *Zhang, Y., +, JPHOT Oct. 2020 3900908*

Harmonic generation

Simultaneous Mid-Infrared Gas Sensing and Upconversion Based on Third Harmonic Generation in Cascaded Waveguides. *Pan, J., +, JPHOT April 2020 6800912*

Hartley transforms

A Novel 3D Vector Decomposition for Color-Image Encryption. *Zhu, Z., +, JPHOT April 2020 7800614*

Health care

Robust Imaging Photoplethysmography in Long-Distance Motion. *Kong, L., +, JPHOT June 2020 3900512*

Hemodynamics

Influence of Display Luminance on Visual Discomfort in Dark Ambient Based on Haemodynamic Response. *Shi, Y., +, JPHOT Aug. 2020 7000814*

Heterodyne detection

A Method to Reduce the Algorithm Complexity of the Single-Photodiode-per-Polarization Coherent Receiver. *Zhou, K., +, JPHOT Feb. 2020 7100210*

Photonics-Assisted Bandwidth-Doubling Dual-Chirp Microwave Signal Generation With Freely-Tunable Central Frequency. *Zhang, L., +, JPHOT Aug. 2020 5501611*

High-speed optical techniques

A Chaotic State in the Transition From Single Toward Multiple Pulse for Soliton Fiber Lasers. *Du, Y., +, JPHOT April 2020 3200112*

All-Fiber High Power Supercontinuum Generation by Cascaded Photonic Crystal Fibers Ranging From 370 nm to 2400 nm. *Zhang, H., +, JPHOT April 2020 7101608*

Carrier-Envelope Offset Frequency Stabilization of a Thin-Disk Laser Oscillator via Depletion Modulation. *Andrade, J.R.C., +, JPHOT April 2020 1500609*

Detection of Polarization and Topological Charge Based on Multidimensional Field of Metasurface. *Luan, J., +, JPHOT Dec. 2020 4601510*

Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber. *Li, G., +, JPHOT April 2020 1501009*

L-band Wavelength-Switchable Dissipative Soliton Resonance Er-doped Fiber Laser. *Liu, S., +, JPHOT April 2020 1501206*

Nonlinear Polarization Evolution Mode-Locked YDFL Based on All-PM Fiber Cavity. *Wu, Z., +, JPHOT April 2020 1501807*

Nonlinear Spectrum Compression of Negatively Chirped Picosecond Pulses in Dispersion-Shifted Telecom Fiber. *Krylov, A., +, JPHOT April 2020 7100515*

Optical Multi-Context Blind Scrubbing for Field Programmable Gate Arrays. *Takaki, Y., +, JPHOT Dec. 2020 7801411*

Real-Time RF Multi-Dimensional Signal Switching Using Polarization-Dependent Optical Mixing. *Liu, Q., +, JPHOT April 2020 5500808*

Vectorial Nature in Nonlinear Multimode Interference Based Ultrafast Fiber Lasers. *Xia, R., +, JPHOT April 2020 1501310*

Hilbert transforms

EWT-ASG: Empirical Wavelet Transform With Adaptive Savitzky-Golay Filtering for TDLAS. *He, J., +, JPHOT June 2020 7800712*

Holey fibers

A Surface Plasmon Resonance Temperature Sensing Unit Based on a Graphene Oxide Composite Photonic Crystal Fiber. *Liang, H., +, JPHOT June 2020 7201811*

All-Fiber High Power Supercontinuum Generation by Cascaded Photonic Crystal Fibers Ranging From 370 nm to 2400 nm. *Zhang, H., +, JPHOT April 2020 7101608*

Experimental Study of Hollow-Core Photonic Crystal Fiber Optical Switching Effect in Liquid Nitrogen Environment. *Song, N., +, JPHOT June 2020 7101806*

High-Power Femtosecond Pulse Generation From an All-Fiber Er-Doped Chirped Pulse Amplification System. *Wei, R., +, JPHOT April 2020 3200208*

Highly Birefringent, Low-Loss, and Near-Zero Flat Dispersion ENZ Based THz Photonic Crystal Fibers. *Hossain, M.S., +, JPHOT June 2020 7202109*

Multi-Channel Photonic Crystal Fiber Based Surface Plasmon Resonance Sensor for Multi-Analyte Sensing. *Yasli, A., +, JPHOT Feb. 2020 6800515*

Ultraviolet-Extended Supercontinuum Generation in Zero-Dispersion Wavelength Decreasing Photonic Crystal Fibers. *Bi, W., +, JPHOT Dec. 2020 3200608*

Versatile Vibration Sensing Using a Tapered Photonic Crystal Fiber With a Featured Core. *Yu, H., +, JPHOT April 2020 6801310*

Holmium

Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser. *Huang, H., +, JPHOT June 2020 1503008*

High Power Ho:YAP Laser With 107 W of Output Power at 2117 nm. *Tang, J., +, JPHOT April 2020 1501107*

Holographic gratings

Hybrid Angular Gradient Phase Grating for Measuring the Orbital Angular Momentum of Perfect Optical Vortex Beams. *Chu, C., +, JPHOT June 2020 7902409*

Holographic optical components

Optical Multi-Context Blind Scrubbing for Field Programmable Gate Arrays. *Takaki, Y., +, JPHOT Dec. 2020 7801411*

Holographic optical elements

A Hybrid Algorithm for Multi-Beam Steering of LCOS-Based Wavelength Selective Switch. *Gao, Y., +, JPHOT June 2020 7903011*

Holography

Fast Aberrations Compensation in Digital Holographic Microscopy Based on Phase Transformation. *Deng, D., +, JPHOT June 2020 6901409*

Generation of Phase-Only Fourier Hologram Based on Double Phase Method and Quantization Error Analysis. *Wu, Y., +, JPHOT Oct. 2020 7000913*

Optical Multi-Context Blind Scrubbing for Field Programmable Gate Arrays. *Takaki, Y., +, JPHOT Dec. 2020 7801411*

Phase Retrieval of On-Axis Digital Holography With Modified Coherent Diffraction Imaging. *Jiang, Z., +, JPHOT Dec. 2020 6901712*

Sequential Shift Absolute Phase Aberration Calibration in Digital Holographic Phase Imaging Based on Chebyshev Polynomials Fitting. *He, W., +, JPHOT Feb. 2020 6900111*

Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing. *Hu, M., +, JPHOT Aug. 2020 5900309*

I**Image classification**

Enhancement of Chest X-Ray Images to Improve Screening Accuracy Rate Using Iterated Function System and Multilayer Fractional-Order Machine Learning Classifier. *Lin, C., +, JPHOT Aug. 2020 4100218*

Image coding

Generation of Phase-Only Fourier Hologram Based on Double Phase Method and Quantization Error Analysis. *Wu, Y., +, JPHOT Oct. 2020 7000913*

HyperSight: A Precise Decoding Algorithm for VLC With Mobile-Phone Camera. *Meng, Y., +, JPHOT Aug. 2020 7904211*

Image Compression-Encryption Scheme via Fiber Specklegram-Based Compressive Sensing and Double Random Phase Encoding. *Liu, Y., +, JPHOT Aug. 2020 7102311*

Quadrature Multiplexed Structured Illumination Imaging. *Hu, C., +, JPHOT April 2020 6900708*

Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing. *Hu, M., +, JPHOT Aug. 2020 5900309*

Image color analysis

- A Novel 3D Vector Decomposition for Color-Image Encryption. *Zhu, Z., +, JPHOT April 2020 7800614*
- Advanced Three-Dimensional Visualization System for an Integral Imaging Microscope Using a Fully Convolutional Depth Estimation Network. *Kwon, K., +, JPHOT Aug. 2020 3900714*
- ARM-Embedded Implementation of a Novel Color Image Encryption and Transmission System Based on Optical Chaos. *Liu, B., +, JPHOT Oct. 2020 3900817*
- Convolutional Neural Network Training for RGBN Camera Color Restoration Using Generated Image Pairs. *Han, Z., +, JPHOT Oct. 2020 6802815*
- Fast Visibility Restoration Using a Single Degradation Image in Scattering Media. *Wang, Y., +, JPHOT June 2020 6100813*
- High-Throughput Deep Learning Microscopy Using Multi-Angle Super-Resolution. *Zhang, J., +, JPHOT April 2020 6900914*
- Low Illumination Video Image Enhancement. *Li, Z., +, JPHOT Aug. 2020 3900613*
- Machine-Learning Assisted Prediction of Spectral Power Distribution for Full-Spectrum White Light-Emitting Diode. *Fan, J., +, JPHOT Feb. 2020 8200218*
- Networked Chaotic Map Model and Its Applications in Color Multiple Image Encryption. *Sun, Y., +, JPHOT Oct. 2020 7801218*
- Sand-Dust Image Restoration Based on Reversing the Blue Channel Prior. *Gao, G., +, JPHOT April 2020 3900216*

Image denoising

- Asymmetric Optical Image Encryption With Silhouette Removal Using Interference and Equal Modulus Decomposition. *Luan, G., +, JPHOT April 2020 6900508*
- Fast Visibility Restoration Using a Single Degradation Image in Scattering Media. *Wang, Y., +, JPHOT June 2020 6100813*

Image enhancement

- Convolutional Neural Network Training for RGBN Camera Color Restoration Using Generated Image Pairs. *Han, Z., +, JPHOT Oct. 2020 6802815*
- Design of Optimal Illumination Patterns in Single-Pixel Imaging Using Image Dictionaries. *Feng, J., +, JPHOT Aug. 2020 6901509*
- Fast Visibility Restoration Using a Single Degradation Image in Scattering Media. *Wang, Y., +, JPHOT June 2020 6100813*
- Low Illumination Video Image Enhancement. *Li, Z., +, JPHOT Aug. 2020 3900613*

Image fusion

- Low Illumination Video Image Enhancement. *Li, Z., +, JPHOT Aug. 2020 3900613*
- Surface Micro-Reflector Array for Augmented Reality Display. *Yan, Z., +, JPHOT April 2020 7000209*

Image matching

- Study on Rotation and Scaling Invariance of Retina-Like Imaging. *Hao, Q., +, JPHOT Oct. 2020 3800110*
- Three-Dimensional Measurement for Rigid Moving Objects Based on Multi-Fringe Projection. *Wang, J., +, JPHOT Aug. 2020 6802114*

Image motion analysis

- Conveyor X-Ray Tomosynthesis Imaging With Optimized Structured Sequential Illumination. *Ma, X., +, JPHOT Oct. 2020 3400217*
- Imaging and Tracking Through Scattering Medium With Low Bit Depth Speckle. *Xu, Q., +, JPHOT April 2020 6900807*
- Non-Line-of-Sight Location With Gauss Filtering Algorithm Based on a Model of Photon Flight. *Ren, Y., +, JPHOT June 2020 7000615*

Image processing

- Direct and Practical Identification for Back Focal Plane Based Surface Plasmon Microscopy. *Zhang, B., +, JPHOT Feb. 2020 6900208*
- Freeform Surface Graded Optimization of Deformable Mirrors in Integrated Zoom and Image Stabilization System Through Vectorial Ray Tracing and Image Point Freezing Method. *Ning, Y., +, JPHOT Feb. 2020 6900316*

Image reconstruction

- Advanced Three-Dimensional Visualization System for an Integral Imaging Microscope Using a Fully Convolutional Depth Estimation Network. *Kwon, K., +, JPHOT Aug. 2020 3900714*
- Computational Ghost Imaging in Scattering Media Using Simulation-Based Deep Learning. *Gao, Z., +, JPHOT Oct. 2020 6803115*

- Conveyor X-Ray Tomosynthesis Imaging With Optimized Structured Sequential Illumination. *Ma, X., +, JPHOT Oct. 2020 3400217*
- Digital Holographic Reconstruction Based on Deep Learning Framework With Unpaired Data. *Yin, D., +, JPHOT April 2020 3900312*
- Effect of Viewpoints on the Accommodation Response in Integral Imaging 3D Display. *Chen, C., +, JPHOT June 2020 7000414*
- Fast Visibility Restoration Using a Single Degradation Image in Scattering Media. *Wang, Y., +, JPHOT June 2020 6100813*
- Generation of Phase-Only Fourier Hologram Based on Double Phase Method and Quantization Error Analysis. *Wu, Y., +, JPHOT Oct. 2020 7000913*
- Image Encryption System Based on Joint Transformation Correlation and Ptychography. *Zhong, Y., +, JPHOT April 2020 2400110*
- Imaging and Tracking Through Scattering Medium With Low Bit Depth Speckle. *Xu, Q., +, JPHOT April 2020 6900807*
- Multiple-Input Single-Output Ghost Imaging. *Wang, L., +, JPHOT June 2020 6901113*
- Phase Retrieval of On-Axis Digital Holography With Modified Coherent Diffraction Imaging. *Jiang, Z., +, JPHOT Dec. 2020 6901712*
- Real-Time Thermoacoustic Imaging-Guidance for Breast Tumor Resection. *Qin, H., +, JPHOT June 2020 3700207*
- Scatterometer and Intensity Distribution Meter With Screen Image Synthesis. *Yu, Y., +, JPHOT Oct. 2020 6501012*
- Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing. *Hu, M., +, JPHOT Aug. 2020 5900309*
- Three-Dimensional Measurement for Rigid Moving Objects Based on Multi-Fringe Projection. *Wang, J., +, JPHOT Aug. 2020 6802114*
- Three-dimensional Measurement of Specular Surfaces Based on the Light Field. *Zhou, P., +, JPHOT Oct. 2020 6901613*
- Transmission Matrix Based Image Super-Resolution Reconstruction Through Scattering Media. *Zhou, S., +, JPHOT June 2020 6901311*
- X-Ray Layered Refocusing Imaging Based on Linear Scanning. *Liu, B., +, JPHOT June 2020 3400112*

Image registration

- Automated Optical Flow Based Registration for Adaptive Optics Scanning Laser Ophthalmoscope. *Chen, Y., +, JPHOT April 2020 3700109*
- Transmission Matrix Based Image Super-Resolution Reconstruction Through Scattering Media. *Zhou, S., +, JPHOT June 2020 6901311*

Image resolution

- Advanced Three-Dimensional Visualization System for an Integral Imaging Microscope Using a Fully Convolutional Depth Estimation Network. *Kwon, K., +, JPHOT Aug. 2020 3900714*
- Convolutional Neural Network Training for RGBN Camera Color Restoration Using Generated Image Pairs. *Han, Z., +, JPHOT Oct. 2020 6802815*
- Dual-View Integral Imaging System With Wide Viewing Angle And High Spatial Resolution. *Deng, H., +, JPHOT June 2020 7000511*
- Momentum-Accelerated Incoherent Fourier Ptychographic Photography. *Wei, W., +, JPHOT April 2020 3900414*
- Multiple-Input Single-Output Ghost Imaging. *Wang, L., +, JPHOT June 2020 6901113*
- Quadrature Multiplexed Structured Illumination Imaging. *Hu, C., +, JPHOT April 2020 6900708*
- Restoration of Out-of-Focus Fluorescence Microscopy Images Using Learning-Based Depth-Variant Deconvolution. *He, D., +, JPHOT April 2020 3900113*
- Temporal Ghost Imaging by Means of Fourier Spectrum Acquisition. *Huang, H., +, JPHOT Oct. 2020 6803012*
- Transmission Matrix Based Image Super-Resolution Reconstruction Through Scattering Media. *Zhou, S., +, JPHOT June 2020 6901311*

Image restoration

- Fast Visibility Restoration Using a Single Degradation Image in Scattering Media. *Wang, Y., +, JPHOT June 2020 6100813*
- Restoration of Out-of-Focus Fluorescence Microscopy Images Using Learning-Based Depth-Variant Deconvolution. *He, D., +, JPHOT April 2020 3900113*
- Sand-Dust Image Restoration Based on Reversing the Blue Channel Prior. *Gao, G., +, JPHOT April 2020 3900216*

VROHI: Visibility Recovery for Outdoor Hazy Image in Scattering Media. *Ju, M., +, JPHOT Dec. 2020 7001015*

Image sampling

Compressive Sensing Based on Mesoscopic Chaos of Silicon Optomechanical Photonic Crystal. *Guo, P., +, JPHOT Oct. 2020 6602009*

Image segmentation

A Fast Image Segmentation Algorithm Based on Saliency Map and Neutrosophic Set Theory. *Song, S., +, JPHOT Oct. 2020 3901016*

Enhancement of Chest X-Ray Images to Improve Screening Accuracy Rate Using Iterated Function System and Multilayer Fractional-Order Machine Learning Classifier. *Lin, C., +, JPHOT Aug. 2020 4100218*

Fast Visibility Restoration Using a Single Degradation Image in Scattering Media. *Wang, Y., +, JPHOT June 2020 6100813*

Low Illumination Video Image Enhancement. *Li, Z., +, JPHOT Aug. 2020 3900613*

Image sensors

A Fast and High-Accuracy Real-Time Visible Light Positioning System Based on Single LED Lamp With a Beacon. *Li, H., +, JPHOT Dec. 2020 7906512*

Convolutional Neural Network Training for RGBN Camera Color Restoration Using Generated Image Pairs. *Han, Z., +, JPHOT Oct. 2020 6802815*

High-Accuracy Robot Indoor Localization Scheme Based on Robot Operating System Using Visible Light Positioning. *Guan, W., +, JPHOT April 2020 7901716*

Low Illumination Video Image Enhancement. *Li, Z., +, JPHOT Aug. 2020 3900613*

Three-dimensional Measurement of Specular Surfaces Based on the Light Field. *Zhou, P., +, JPHOT Oct. 2020 6901613*

X-Ray Layered Refocusing Imaging Based on Linear Scanning. *Liu, B., +, JPHOT June 2020 3400112*

Image sequences

Quadrature Multiplexed Structured Illumination Imaging. *Hu, C., +, JPHOT April 2020 6900708*

Quantitative Phase Imaging During Cell Division Based on Dual-Channel Microscopic Interferometry System. *Liu, S., +, JPHOT Feb. 2020 6900411*

Imaging

Single-Pixel Imaging Based on Optical Fibers. *Tian, Y., +, JPHOT Dec. 2020 7103507*

Implants

Design of Silicon Photonic Structures for Multi-Site, Multi-Spectral Optogenetics in the Deep Brain. *Nazempour, R., +, JPHOT Dec. 2020 4200107*

Independent component analysis

Intrusion Discrimination in Terms of LMD and ICA With Combined Features in The Fiber-Optic Perimeter System. *Li, M., +, JPHOT April 2020 7101414*

Indium compounds

450 nm Gallium Nitride Alternating Current Light-Emitting Diode. *Hartensveld, M., +, JPHOT Dec. 2020 8200906*

Blue Laser Diode System With an Enhanced Wavelength Tuning Range. *Mukhtar, S., +, JPHOT April 2020 1502110*

Electro-absorption and Electro-optic Characterization of L-Band InAs/InP Quantum-dash Waveguide. *Alkharaji, E., +, JPHOT June 2020 6601010*

Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M., +, JPHOT June 2020 8200408*

High-Performance Semi-Polar InGaN/GaN Green Micro Light-Emitting Diodes. *Xu, F., +, JPHOT Feb. 2020 2500107*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*

Investigation of Enhanced Transmission and Beaming Effect Through an InSb Subwavelength Grating With a Slit at the Terahertz Range. *Liu, X., +, JPHOT Feb. 2020 4800112*

Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y., +, JPHOT April 2020 2400207*

Nonmetallic Broadband Visible-Light Absorbers With Polarization and Incident Angle Insensitivity. *Yu, Y., +, JPHOT Dec. 2020 2200807*

On the Impact of Electron Leakage on the Efficiency Droop for AlGaIn Based Deep Ultraviolet Light Emitting Diodes. *Chu, C., +, JPHOT June 2020 1600207*

Indoor communication

High-Accuracy Robot Indoor Localization Scheme Based on Robot Operating System Using Visible Light Positioning. *Guan, W., +, JPHOT April 2020 7901716*

Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F., +, JPHOT Aug. 2020 7904512*

Performance Limits for Fingerprinting-Based Indoor Optical Communication Positioning Systems Exploiting Multipath Reflections. *Hosseiniyanfar, H., +, JPHOT Aug. 2020 7903416*

Indoor radio

High-Accuracy Robot Indoor Localization Scheme Based on Robot Operating System Using Visible Light Positioning. *Guan, W., +, JPHOT April 2020 7901716*

Indoor High Precision Three-Dimensional Positioning System Based on Visible Light Communication Using Improved Hybrid Bat Algorithm. *Chen, Y., +, JPHOT Oct. 2020 6802513*

Inductive power transmission

High-Efficiency Pulse Width Modulation-Based Wireless Laser Power Transmission Step-Down System. *Wang, Y., +, JPHOT April 2020 8400214*

Infrared detectors

An Amorphous (Al_{0.12}Ga_{0.88})₂O₃ Deep Ultraviolet Photodetector. *Liu, S., +, JPHOT Aug. 2020 6801908*

Impact of Temperature and Doping on the Performance of Ge/Ge_{1-x}Sn_x/Ge Heterojunction Phototransistors. *Kumar, H., +, JPHOT June 2020 6801814*

Simultaneous Mid-Infrared Gas Sensing and Upconversion Based on Third Harmonic Generation in Cascaded Waveguides. *Pan, J., +, JPHOT April 2020 6800912*

Infrared spectra

Electro-absorption and Electro-optic Characterization of L-Band InAs/InP Quantum-dash Waveguide. *Alkharaji, E., +, JPHOT June 2020 6601010*

Highly Sensitive FBG Strain Sensor With Enhanced Measurement Range Based On Higher Order FWM. *Ghosh, C., +, JPHOT Feb. 2020 6800407*

Near-Infrared Supercontinuum and Ultrashort Pulses Generated Based on Phase-Mismatched Cascaded Frequency Conversion in DSTMS Crystal. *Qian, J., +, JPHOT June 2020 3200306*

Nonlinear Bound States in the Continuum of Etchless Lithium Niobate Metasurfaces. *Yang, Q., +, JPHOT Oct. 2020 4601209*

Optimized Multilayer Structures With Ultrabroadband Near-Perfect Absorption. *You, C., +, JPHOT June 2020 4500810*

Polarization Independent Unidirectional Scattering With Turnstile Nanoantennas. *Rocco, D., +, JPHOT Dec. 2020 4501908*

Systematic Analysis for fNIRS Measurement Combining Sensitivity and SNR Based on the Colin27 Brain Template. *Wang, Y., +, JPHOT Aug. 2020 3700413*

Tunable Anisotropic Perfect Enhancement Absorption in Black Phosphorus-Based Metasurfaces. *Tang, B., +, JPHOT June 2020 4500209*

Tunable Electro- and All-Optical Switch Based on Epsilon-Near-Zero Metasurface. *Xie, Z.T., +, JPHOT Aug. 2020 4501510*

Injuries

Fluence as a Function of Weight: A Photobiomodulation Therapy (PBMT) Spinal Cord Injury (SCI) Rat Model—A Computational Study. *Shuaib, A., +, JPHOT Dec. 2020 3700808*

Ink jet printing

A Low Loss Quantum-Dot-Doped Optical Fiber Temperature Sensor Based on Flexible Print Technology. *Zhang, G., +, JPHOT June 2020 7101008*

Integrated circuit interconnections

The Design of CMOS-Compatible Plasmonic Waveguides for Intra-Chip Communication. *Liu, Y., +, JPHOT Oct. 2020 4800810*

Integrated memory circuits

OE-CAM: A Hybrid Opto-Electronic Content Addressable Memory. *Alkhabani, Y., +, JPHOT April 2020 6600114*

Integrated optics

A Monolithic Integrated Dual-Wavelength DFB Laser With Equivalent Inverse-Gaussian Apodized Grating. *Yuan, B., +, JPHOT Dec. 2020 3030669*

A Multipurpose and Highly-Compact Plasmonic Filter Based on Metal-Insulator-Metal Waveguides. *Ebadi, S.M., +, JPHOT June 2020 4800309*

- A Precise High Count-Rate FPGA Based Multi-Channel Coincidence Counting System for Quantum Photonics Applications. *Arabul, E., +, JPHOT April 2020 7500114*
- A Sub-kHz Narrow-Linewidth, and Hundred-mW High-Output-Power Silicon-Based Er Silicate Laser With Hybrid Pump and Signal Co-Resonant Cavity. *Zhou, P., +, JPHOT Feb. 2020 1500212*
- Automated Adaptation and Stabilization of a Tunable WDM Polarization-Independent Receiver on Active Silicon Photonic Platform. *Ma, M., +, JPHOT Aug. 2020 4900411*
- Backward-Emitting Silicon Nitride Optical Phased Array Enabling Efficient Wavelength-Tuned Beam Steering. *Im, C., +, JPHOT Oct. 2020 6601910*
- Bias-Free Silicon-Based Optical Single-Sideband Modulator Without 2nd-Order Sideband. *Keshavarz, H., +, JPHOT Aug. 2020 5501816*
- Compact and Broadband Edge Coupler Based on Multi-Stage Silicon Nitride Tapers. *Bhandari, B., +, JPHOT Dec. 2020 6602511*
- Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L., +, JPHOT Oct. 2020 6601906*
- Electro-Absorption Optical Modulator Based on Graphene-Buried Polymer Waveguides. *Lian, T., +, JPHOT Aug. 2020 6601610*
- Enhanced Nonlinearity and Engineered Anomalous Dispersion in TeO₂-coated Si₃N₄ Waveguides. *Mbonde, H.M., +, JPHOT April 2020 2200210*
- Etched Silicon-on-Insulator Microring Resonator for Ultrasound Measurement. *Yang, W., +, JPHOT April 2020 6801409*
- Freeform Surface Graded Optimization of Deformable Mirrors in Integrated Zoom and Image Stabilization System Through Vectorial Ray Tracing and Image Point Freezing Method. *Ning, Y., +, JPHOT Feb. 2020 6900316*
- High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*
- High-Sensitive Refractive Index Sensing Enabled by Topological Charge Evolution. *Lv, J., +, JPHOT Oct. 2020 4501610*
- Highly Nonlinear Organic-Silicon Slot Waveguide for Ultrafast Multimode All-Optical Logic Operations. *Wang, Y., +, JPHOT Dec. 2020 3200712*
- Integrated Optical Power Splitter With Continuously Adjustable Power Splitting Ratio. *Liao, S., +, JPHOT Dec. 2020 7801513*
- Integrated Photonic Platform for Robust Differential Refractive Index Sensor. *Moras, A.L., +, JPHOT Oct. 2020 6802910*
- Interleaved Subwavelength Gratings Strip Waveguide Based TM Pass Polarizer on SOI Platform. *Xu, Z., +, JPHOT April 2020 4900110*
- Investigation of Enhanced Transmission and Beaming Effect Through an InSb Subwavelength Grating With a Slit at the Terahertz Range. *Liu, X., +, JPHOT Feb. 2020 4800112*
- Large-Scale Integrated Multi-Lines Optical Phased Array Chip. *Zhang, L., +, JPHOT Aug. 2020 6601208*
- Light Extraction Efficiency of GaN-Based Micro-Scale Light-Emitting Diodes Investigated Using Finite-Difference Time-Domain Simulation. *Ryu, H., +, JPHOT April 2020 1600110*
- Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y., +, JPHOT April 2020 2400207*
- Phase Calibration of On-Chip Optical Phased Arrays via Interference Technique. *Zhang, H., +, JPHOT April 2020 6600210*
- Polarization Coupling of X-Cut Thin Film Lithium Niobate Based Waveguides. *Wang, J., +, JPHOT June 2020 2200310*
- Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength. *Li, J., +, JPHOT Aug. 2020 6601309*
- Sequential Logic and Pipelining in Chip-Based Electronic-Photonic Digital Computing. *Ying, Z., +, JPHOT Dec. 2020 7801311*
- Stable Excitation of Orbital Angular Momentum States in Air-Core Fiber Seeded by an Integrated Optical Vortex Beam Emitter. *Wang, J., +, JPHOT Aug. 2020 6601408*
- Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μ m Wavelength Band. *Liu, Y., +, JPHOT Aug. 2020 4900308*
- Tunable Electromagnetically Induced Transparency-Like Spectrum in Lithium Niobate on Insulator Platform With Narrow Linewidth. *Yu, W., +, JPHOT Oct. 2020 2700308*
- Ultra-Broadband, Fabrication Tolerant Optical Coupler for Arbitrary Splitting Ratio Using Particle Swarm Optimization Algorithm. *Leng, L., +, JPHOT Oct. 2020 6602212*
- Ultra-Low Index-Contrast Polymeric Photonic Crystal Nanobeam Electro-Optic Modulator. *Li, X., +, JPHOT June 2020 4900208*
- Ultralow Loss and High Extinction Ratio TM-Pass Polarizer in Silicon Photonics. *Dhingra, N., +, JPHOT Dec. 2020 6602311*
- Weak One-Dimensional Field Confinement Silica Waveguides. *Zhao, C., +, JPHOT Aug. 2020 2200511*
- Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P., +, JPHOT Dec. 2020 6602409*
- Integrated optoelectronics**
- All-Silicon Energy-Efficient Optical Diode Using Opto-Mechanical Microring Resonators. *Xu, L., +, JPHOT June 2020 4501009*
- Backward-Emitting Silicon Nitride Optical Phased Array Enabling Efficient Wavelength-Tuned Beam Steering. *Im, C., +, JPHOT Oct. 2020 6601910*
- Design of Partially Suspended Silicon Nitride Slot Waveguides for Efficient Forward Stimulated Brillouin Scattering. *Wang, K., +, JPHOT Aug. 2020 4501211*
- Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits. *Yu, X., +, JPHOT Oct. 2020 2200708*
- High Detection Rate Fast-Gated CMOS Single-Photon Avalanche Diode Module. *Renna, M., +, JPHOT Oct. 2020 6802312*
- High-Performance Microring Resonator Ge-on-Si Photodetectors by Optimizing Absorption Layer Length. *Cui, J., +, JPHOT Aug. 2020 6802208*
- High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*
- Integrated Optical Delay Line Based on a Loopback Arrayed Waveguide Grating for Radio-frequency Filtering. *Wang, X., +, JPHOT June 2020 6600911*
- Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule. *Zhang, W., +, JPHOT Feb. 2020 2200108*
- Low-Complexity Time-Domain Averaging-Based DAC Clock Tone Leakage Compensation for Short-Reach PAM4 Transmission. *Chen, M., +, JPHOT June 2020 7202014*
- OE-CAM: A Hybrid Opto-Electronic Content Addressable Memory. *Alkabani, Y., +, JPHOT April 2020 6600114*
- On-Chip All-Optical Tunable Filter With High Tuning Efficiency. *Chen, M., +, JPHOT April 2020 7800510*
- On-Chip Low-Power Gray Code Generation Based on Opto-Mechanical Microring Resonators. *Liu, L., +, JPHOT June 2020 4500312*
- Quasiperiodic Dielectric Gratings for Multiband Fiber-To-Chip Couplers. *Picin, O.J., +, JPHOT Oct. 2020 7103010*
- Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength. *Li, J., +, JPHOT Aug. 2020 6601309*
- Sequential Logic and Pipelining in Chip-Based Electronic-Photonic Digital Computing. *Ying, Z., +, JPHOT Dec. 2020 7801311*
- Temperature Dependence of the Steering Angles of a Silicon Photonic Optical Phased Array. *Yepez, P.A.K., +, JPHOT April 2020 6800813*
- The Design of CMOS-Compatible Plasmonic Waveguides for Intra-Chip Communication. *Liu, Y., +, JPHOT Oct. 2020 4800810*
- Tunable Germanium-on-Insulator Band-Stop Optical Filter Using Thermo-Optic Effect. *Ho, C.P., +, JPHOT April 2020 6600307*
- Integration**
- All-Fiber High Power Supercontinuum Generation by Cascaded Photonic Crystal Fibers Ranging From 370 nm to 2400 nm. *Zhang, H., +, JPHOT April 2020 7101608*
- Intelligent transportation systems**
- Characterization of Field of View in Visible Light Communication Systems for Intelligent Transportation Systems. *Seminara, M., +, JPHOT Aug. 2020 7903816*
- Fast Detection and Tracking of a Moving Transmitter via Visible Light Communication Link. *Ahmed, M., +, JPHOT Aug. 2020 7904414*
- Intensity modulation**
- A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation. *Zhang, H., +, JPHOT Feb. 2020 5500208*

- A Tunable Energy Signal for Intensity Modulation and Direct Detection Systems: Theory, Simulations, and Experiments. *Vejanla, K., +, JPHOT Feb. 2020 7900412*
- Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. *Li, K., +, JPHOT Oct. 2020 1503811*
- Comparison of Geometrically Shaped and Probabilistically Shaped Bit-Loading DMT for Optical Interconnect System. *Ding, J., +, JPHOT April 2020 7201008*
- D-band Millimeter Wave Generation and Transmission Through Radio-Over-Fiber System. *Li, J.L., +, JPHOT April 2020 5500708*
- D-Band mm-Wave SSB Vector Signal Generation Based on Cascaded Intensity Modulators. *Li, Y., +, JPHOT April 2020 7201111*
- Demonstration of 4×100 Gbit/s PAM-4 Transmission Over 40 km in an IM/DD System Based on Narrow Band DMLs. *Wang, K., +, JPHOT June 2020 7201908*
- Formation and Evolution of Soliton in Two-Mode Fiber Laser. *Zheng, Y., +, JPHOT Aug. 2020 3200408*
- Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K., +, JPHOT Feb. 2020 1500409*
- Hybrid OFDM-Digital Filter Multiple Access PONs Utilizing Spectrally Overlapped Digital Orthogonal Filtering. *Sankoh, A., +, JPHOT Oct. 2020 7905311*
- Impact of Analog and Digital Pre-Emphasis on the Signal-to-Noise Ratio of Bandwidth-Limited Optical Transceivers. *Zhou, Z., +, JPHOT April 2020 7200712*
- Rate Analysis of Intensity Modulated Broadcast Optical Mobile Communication System With User Mobility. *Gao, J., +, JPHOT Oct. 2020 7905312*
- Intercarrier interference**
- 56 Gbit/s OOK Signal in C-band Over 20 km Dispersion-Uncompensated Link Transmission With Receiver-Side EDC Algorithm. *Liang, W., +, JPHOT Oct. 2020 7905707*
- Interference**
- Single-Pixel Imaging Based on Optical Fibers. *Tian, Y., +, JPHOT Dec. 2020 7103507*
- Interference (signal)**
- Phase Calibration of On-Chip Optical Phased Arrays via Interference Technique. *Zhang, H., +, JPHOT April 2020 6600210*
- Interference cancellation**
- Polarization Multiplexed Optical OFDM System With a Beat Interference Cancellation Receiver. *Ma, J., +, JPHOT Dec. 2020 7202710*
- Interference suppression**
- 56 Gbit/s OOK Signal in C-band Over 20 km Dispersion-Uncompensated Link Transmission With Receiver-Side EDC Algorithm. *Liang, W., +, JPHOT Oct. 2020 7905707*
- A Method to Reduce the Algorithm Complexity of the Single-Photodiode-per-Polarization Coherent Receiver. *Zhou, K., +, JPHOT Feb. 2020 7100210*
- Demonstration of Non-Hermitian Symmetry (NHS) IFFT/FFT Size Efficient OFDM Non-Orthogonal Multiple Access (NOMA) for Visible Light Communication. *Adnan, A., +, JPHOT June 2020 7201405*
- Low-Complexity Time-Domain Averaging-Based DAC Clock Tone Leakage Compensation for Short-Reach PAM4 Transmission. *Chen, M., +, JPHOT June 2020 7202014*
- Optical Multipath RF Self-Interference Cancellation Based on Phase Modulation for Full-Duplex Communication. *Su, X., +, JPHOT Aug. 2020 7102114*
- Optical Self-Interference Cancellation With Frequency Down-Conversion Based on Cascade Modulator. *Wang, J., +, JPHOT Dec. 2020 5502708*
- User-Centric Access Scheme Based on Interference Management for Indoor VLC-WIFI Heterogeneous Networks. *Liu, H., +, JPHOT Aug. 2020 7903712*
- Interferometry**
- Two-Step Phase-Shifting Algorithm Based on the Quadratic Spatial Filtering of Interferograms. *Han, X., +, JPHOT Dec. 2020 6901812*
- Internal stresses**
- Actively Q-Switched Tm:YAP Laser Constructed Using an Electro-Optic Periodically Poled Lithium Niobate Bragg Modulator. *Lin, S., +, JPHOT Oct. 2020 1503509*
- Internet of Things**
- AquaE-lite Hybrid-Solar-Cell Receiver-Modality for Energy-Autonomous Terrestrial and Underwater Internet-of-Things. *Kong, M., +, JPHOT Aug. 2020 7904713*
- Light-Emitting Commutating Diodes for Optical Wireless Communications Within LED Drivers. *Pawlikowski, W., +, JPHOT Oct. 2020 7905111*
- Interpolation**
- Enhancement of Chest X-Ray Images to Improve Screening Accuracy Rate Using Iterated Function System and Multilayer Fractional-Order Machine Learning Classifier. *Lin, C., +, JPHOT Aug. 2020 4100218*
- Transmission Matrix Based Image Super-Resolution Reconstruction Through Scattering Media. *Zhou, S., +, JPHOT June 2020 6901311*
- Using Linear Interpolation to Reduce the Training Samples for Regression Based Visible Light Positioning System. *Wu, Y., +, JPHOT April 2020 7901305*
- Intersymbol interference**
- Impulse Response Modeling of Underwater Optical Scattering Channels for Wireless Communication. *Boluda-Ruiz, R., +, JPHOT Aug. 2020 7904414*
- Inverse transforms**
- Asymmetric Optical Image Encryption With Silhouette Removal Using Interference and Equal Modulus Decomposition. *Luan, G., +, JPHOT April 2020 6900508*
- Demonstration of Non-Hermitian Symmetry (NHS) IFFT/FFT Size Efficient OFDM Non-Orthogonal Multiple Access (NOMA) for Visible Light Communication. *Adnan, A., +, JPHOT June 2020 7201405*
- Ion implantation**
- Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits. *Yu, X., +, JPHOT Oct. 2020 2200708*
- Ionization**
- 3D Simple Monte Carlo Statistical Model for GaAs Nanowire Single Photon Avalanche Diode. *Xie, S., +, JPHOT Aug. 2020 6802008*
- Optical-Stark Induced Distortions in Vortex Momentum Distributions of p-Orbital Electrons of Neon Atoms. *He, Y., +, JPHOT Dec. 2020 6101209*
- Iterative methods**
- A Hybrid Algorithm for Multi-Beam Steering of LCOS-Based Wavelength Selective Switch. *Gao, Y., +, JPHOT June 2020 7903011*
- A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M., +, JPHOT Dec. 2020 7906212*
- An Image-Based Alignment Errors Correction Method for Segmented Fresnel Primary Mirror. *Zhu, L., +, JPHOT April 2020 6900614*
- ANN-Assisted Real-Time Blind Signal Detection Over Time-Varying Doubly-Stochastic Poisson Channel for Indoor Optical Wireless Communications. *Arya, S., +, JPHOT Oct. 2020 7904918*
- Asymmetric Optical Image Encryption With Silhouette Removal Using Interference and Equal Modulus Decomposition. *Luan, G., +, JPHOT April 2020 6900508*
- Entanglement of Microwave and Optical Fields Using Electrical Capacitor Loaded With Plasmonic Graphene Waveguide. *Qasymeh, M., +, JPHOT April 2020 7500212*
- Generation of Phase-Only Fourier Hologram Based on Double Phase Method and Quantization Error Analysis. *Wu, Y., +, JPHOT Oct. 2020 7000913*
- Image Encryption System Based on Joint Transformation Correlation and Ptychography. *Zhong, Y., +, JPHOT April 2020 2400110*
- Indoor High Precision Three-Dimensional Positioning System Based on Visible Light Communication Using Improved Hybrid Bat Algorithm. *Chen, Y., +, JPHOT Oct. 2020 6802513*
- Momentum-Accelerated Incoherent Fourier Ptychographic Photography. *Wei, W., +, JPHOT April 2020 3900414*
- Phase Retrieval of On-Axis Digital Holography With Modified Coherent Diffraction Imaging. *Jiang, Z., +, JPHOT Dec. 2020 6901712*
- Propagation Operator Based Boundary Condition for Finite Element Analysis. *Morimoto, K., +, JPHOT Aug. 2020 6601713*
- Sensitivity-Based Structural Optimal Design With Bi-Directional Beam Propagation Method for Photonic Devices in High-Index-Contrast Waveguides. *Iguchi, A., +, JPHOT Oct. 2020 6602111*

J

Jet engines

Propagation Properties of Gaussian Schell-Model Beam Array in the Jet Engine Exhaust Induced Turbulence. *Zhang, Y.*, +, *JPHOT Dec. 2020 6501113*

Jitter

Effects of Power Split Ratio and Optical Delay Phase Tuning on Stabilization of Self-Mode-Locked Quantum-Dash Lasers Subject to Dual-Loop Optical Feedback. *Asghar, H.*, +, *JPHOT April 2020 1502211*

K

Kalman filters

Extended Kalman Filter Based Linear Quadratic Regulator Control for Optical Wireless Communication Alignment. *Alalwan, A.*, +, *JPHOT Dec. 2020 7907012*

L

Laser applications in medicine

Automated Optical Flow Based Registration for Adaptive Optics Scanning Laser Ophthalmoscope. *Chen, Y.*, +, *JPHOT April 2020 3700109*

Fluence as a Function of Weight: A Photobiomodulation Therapy (PBMT) Spinal Cord Injury (SCI) Rat Model—A Computational Study. *Shuaib, A.*, +, *JPHOT Dec. 2020 3700808*

Laser beam applications

A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation. *Zhang, H.*, +, *JPHOT Feb. 2020 5500208*

Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F.*, +, *JPHOT Aug. 2020 7904512*

Laser beams

2.5 kW Narrow Linewidth Linearly Polarized All-Fiber MOPA With Cascaded Phase-Modulation to Suppress SBS Induced Self-Pulsing. *Wang, Y.*, +, *JPHOT June 2020 1502815*

All-Fiber Laser With Agile Mode-Switching Capability Through Intra-Cavity Conversion. *Wu, H.*, +, *JPHOT April 2020 1500709*

Circular Airy Beam Based on Bandpass Filter. *Sun, X.*, +, *JPHOT Feb. 2020 6100508*

Efficient and Tunable 1.6- μm MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO₄/YVO₄ Raman Laser. *Zhao, L.*, +, *JPHOT Feb. 2020 1500107*

Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K.*, +, *JPHOT Feb. 2020 1500409*

Generation of Optical Vortices With Polarization-Insensitive Metasurfaces. *Shen, Z.*, +, *JPHOT Aug. 2020 4601010*

Generation of Spiral Spin Density Vectors With A Circularly Polarized, Vortex Beam. *Pang, X.*, +, *JPHOT April 2020 6500514*

Generation of Terawatt-Scale Vortex Pulses Based on Optical Parametric Chirped-Pulse Amplification. *Pan, W.*, +, *JPHOT June 2020 1502608*

High Average Power Diode-Side-Pumped Intracavity Terahertz Parametric Source Based on Stimulated Polariton Scattering in RbTiOPO₄ Crystal. *Gao, F.*, +, *JPHOT April 2020 1400109*

High Power Ho:YAP Laser With 107 W of Output Power at 2117 nm. *Tang, J.*, +, *JPHOT April 2020 1501107*

Hybrid Angular Gradient Phase Grating for Measuring the Orbital Angular Momentum of Perfect Optical Vortex Beams. *Chu, C.*, +, *JPHOT June 2020 7902409*

Large-Scale Integrated Multi-Lines Optical Phased Array Chip. *Zhang, L.*, +, *JPHOT Aug. 2020 6601208*

Lommel-Gaussian Pulsed Beams Carrying Orbital Angular Momentum Propagation in Asymmetric Oceanic Turbulence. *Li, Y.*, +, *JPHOT Feb. 2020 7900915*

Orbital Energy and Spin Flows in a Strong Focus of Laser Light. *Kotlyar, V.V.*, +, *JPHOT Oct. 2020 4501713*

Photonic Wheels and Their Topological Reaction in a Strongly Focused Amplitude Tailored Beam. *Miao, W.*, +, *JPHOT April 2020 6500709*

Spatial Beam Self-Cleaning in Tapered Yb-Doped GRIN Multimode Fiber With Decelerating Nonlinearity. *Niang, A.*, +, *JPHOT April 2020 6500308*

Tailored Transverse Mode Vertical-Cavity Surface-Emitting Laser: Hollow Laser Beam Emission through Circle Aperture. *Zhou, Y.*, +, *JPHOT Aug. 2020 1503106*

Laser cavity resonators

13.7-W 588-nm Yellow Laser Generation by Frequency Doubling of 885-nm Side-Pumped Nd:YAG-YVO₄ Intracavity Raman Laser. *Sun, B.*, +, *JPHOT April 2020 1501607*

1310 nm Narrow Linewidth Laser Assisted by the Feedback of Double-FBGs. *Iroegbu, P.I.*, +, *JPHOT Oct. 2020 1503612*

A Novel Repetition Rate Adjustable SBS-Based Q-Switched Fiber Laser. *Hou, S.*, +, *JPHOT April 2020 1501408*

A Sub-kHz Narrow-Linewidth, and Hundred-mW High-Output-Power Silicon-Based Er Silicate Laser With Hybrid Pump and Signal Co-Resonant Cavity. *Zhou, P.*, +, *JPHOT Feb. 2020 1500212*

All-Fiber Laser With Agile Mode-Switching Capability Through Intra-Cavity Conversion. *Wu, H.*, +, *JPHOT April 2020 1500709*

An Erbium Fiber Laser With Single-Frequency Oscillation and Wavelength-Upconverted Output. *Yeh, C.*, +, *JPHOT Oct. 2020 7102807*

Blue Laser Diode System With an Enhanced Wavelength Tuning Range. *Mukhtar, S.*, +, *JPHOT April 2020 1502110*

Broadband Dispersion-Managed Dissipative Soliton and Structural Soliton Molecules in a Slight-Normal Dispersion Fiber Laser. *Wang, X.*, +, *JPHOT Dec. 2020 3200510*

Corrections to “Evolution of Soliton Rain in a TM-Doped Passive Mode-Locked All-Fiber Laser” [Aug 20 Art. no. 1503408]. *Wang, F.*, +, *JPHOT Oct. 2020 9700101*

Corrections to “Evolution of Soliton Rain in a Tm-Doped Passive Mode-Locked All-Fiber Laser” [Aug 20 Art. no. 1503408]. *Wang, F.*, +, *JPHOT Dec. 2020 9700301*

Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser. *Huang, H.*, +, *JPHOT June 2020 1503008*

Effects of Lateral Optical Confinement In GaN VCSELs With Double Dielectric DBRs. *Xu, R.*, +, *JPHOT April 2020 1501708*

Effects of Power Split Ratio and Optical Delay Phase Tuning on Stabilization of Self-Mode-Locked Quantum-Dash Lasers Subject to Dual-Loop Optical Feedback. *Asghar, H.*, +, *JPHOT April 2020 1502211*

Evolution of Soliton Rain in a Tm-doped Passive Mode-Locked All-Fiber Laser. *Wang, F.*, +, *JPHOT Aug. 2020 1503408*

Experimental Investigations on Polarization Switching and Bistability in a 1550 nm VCSEL Subject to Orthogonal Optical Injection With Time-Varying Injection Power. *Wang, Q.*, +, *JPHOT Oct. 2020 1504108*

Fourier and Inverse Fourier Transform Model for Delayed Self-interferometry System. *Zhang, L.*, +, *JPHOT June 2020 5501511*

Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K.*, +, *JPHOT Feb. 2020 1500409*

Generation of Flat-Top Q-Switched Envelope Dissipative Soliton Resonance Pulse in Passively Mode-Locked Fiber Laser. *Han, L.*, +, *JPHOT April 2020 7101508*

High Average Power Diode-Side-Pumped Intracavity Terahertz Parametric Source Based on Stimulated Polariton Scattering in RbTiOPO₄ Crystal. *Gao, F.*, +, *JPHOT April 2020 1400109*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D.*, +, *JPHOT Dec. 2020 1504612*

High-Power High-Repetition-Rate Tunable Yellow Light Generation by an Intracavity-Frequency-Doubled Singly Resonant Optical Parametric Oscillator. *Sun, B.*, +, *JPHOT June 2020 1502310*

L-band Wavelength-Switchable Dissipative Soliton Resonance Er-doped Fiber Laser. *Liu, S.*, +, *JPHOT April 2020 1501206*

Nonlinear Polarization Evolution Mode-Locked YDFL Based on All-PM Fiber Cavity. *Wu, Z.*, +, *JPHOT April 2020 1501807*

Optical Property of Polarization-Maintaining Fiber Taper for Tunable Multi-Wavelength Fiber Laser Generation. *Yuan, F.*, +, *JPHOT Feb. 2020 7100109*

- Simulation for Generation of Several Types of Pulses in an Yb-Doped Mode-Locked Fiber Laser. *Cui, Y., +, JPHOT Dec. 2020 1504413*
- Simultaneous Generation of Multi-Channel Broadband Chaotic Signals Based on Two Unidirectionally Coupled WRC-FPLDs. *Hu, C., +, JPHOT Oct. 2020 1504008*
- Tailored Transverse Mode Vertical-Cavity Surface-Emitting Laser: Hollow Laser Beam Emission through Circle Aperture. *Zhou, Y., +, JPHOT Aug. 2020 1503106*
- Transmission Distance Extension of Directly Modulated Tunable V-cavity Laser Using AWG Wavelength Detuning. *Zhuang, Y., +, JPHOT June 2020 7201707*
- Tunable Multi-Wavelength Bright-Dark and Dark-Bright Pulse Pairs Fiber Lasers. *Xin, Y., +, JPHOT Dec. 2020 7103209*
- Ultrafine Frequency Linearly Tunable Single-Frequency Fiber Laser Based on Intracavity Active Tuning. *Jin, L., +, JPHOT April 2020 1500806*
- Laser benchmark**
- 1310 nm Narrow Linewidth Laser Assisted by the Feedback of Double-FBGs. *Iroegbu, P.I., +, JPHOT Oct. 2020 1503612*
- Blue Laser Diode System With an Enhanced Wavelength Tuning Range. *Mukhtar, S., +, JPHOT April 2020 1502110*
- Effects of Power Split Ratio and Optical Delay Phase Tuning on Stabilization of Self-Mode-Locked Quantum-Dash Lasers Subject to Dual-Loop Optical Feedback. *Asghar, H., +, JPHOT April 2020 1502211*
- Regulating the Single-Mode Lasing Intensity of Semiconductor Lasers Without Wavelength Shift. *Wang, Y., +, JPHOT April 2020 6100709*
- Laser frequency stability**
- Carrier-Envelope Offset Frequency Stabilization of a Thin-Disk Laser Oscillator via Depletion Modulation. *Andrade, J.R.C., +, JPHOT April 2020 1500609*
- Fourier and Inverse Fourier Transform Model for Delayed Self-interferometry System. *Zhang, L., +, JPHOT June 2020 5501511*
- Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K., +, JPHOT Feb. 2020 1500409*
- Laser materials processing**
- Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber. *Li, G., +, JPHOT April 2020 1501009*
- Laser mirrors**
- Dissipative Soliton Resonance in an All-Polarization Maintaining Fiber Laser With a Nonlinear Amplifying Loop Mirror. *Gong, Q., +, JPHOT June 2020 1502708*
- Environmentally Stable 1.56- μm Femtosecond Laser System With Discontinuous Selectable Repetition Rate. *Fu, H., +, JPHOT June 2020 1502507*
- Generation of 1.8-W Average Power From a Diode-Pumped Femtosecond Rotary Nd:Glass Disk Laser. *Gong, L., +, JPHOT Feb. 2020 1500306*
- Generation of Flat-Top Q-Switched Envelope Dissipative Soliton Resonance Pulse in Passively Mode-Locked Fiber Laser. *Han, L., +, JPHOT April 2020 7101508*
- L-band Wavelength-Switchable Dissipative Soliton Resonance Er-doped Fiber Laser. *Liu, S., +, JPHOT April 2020 1501206*
- Multi-Wavelength SOA Fiber Laser With Ultra-Narrow Wavelength Spacing Based on NPR Effect. *Zhou, X., +, JPHOT Oct. 2020 7202408*
- Regulating the Single-Mode Lasing Intensity of Semiconductor Lasers Without Wavelength Shift. *Wang, Y., +, JPHOT April 2020 6100709*
- Laser mode locking**
- Carrier-Envelope Offset Frequency Stabilization of a Thin-Disk Laser Oscillator via Depletion Modulation. *Andrade, J.R.C., +, JPHOT April 2020 1500609*
- Compact, High-Performance All-Polarization-Maintaining Er: Fiber Frequency Comb With Single Fiber Actuator. *Cai, Y., +, JPHOT Aug. 2020 7102508*
- Corrections to "Evolution of Soliton Rain in a TM-Doped Passive Mode-Locked All-Fiber Laser" [Aug 20 Art. no. 1503408]. *Wang, F., +, JPHOT Oct. 2020 9700101*
- Corrections to "Evolution of Soliton Rain in a Tm-Doped Passive Mode-Locked All-Fiber Laser" [Aug 20 Art. no. 1503408]. *Wang, F., +, JPHOT Dec. 2020 9700301*
- Dissipative Soliton Resonance in an All-Polarization Maintaining Fiber Laser With a Nonlinear Amplifying Loop Mirror. *Gong, Q., +, JPHOT June 2020 1502708*
- Effects of Power Split Ratio and Optical Delay Phase Tuning on Stabilization of Self-Mode-Locked Quantum-Dash Lasers Subject to Dual-Loop Optical Feedback. *Asghar, H., +, JPHOT April 2020 1502211*
- Environmentally Stable 1.56- μm Femtosecond Laser System With Discontinuous Selectable Repetition Rate. *Fu, H., +, JPHOT June 2020 1502507*
- Evolution of Soliton Rain in a Tm-doped Passive Mode-Locked All-Fiber Laser. *Wang, F., +, JPHOT Aug. 2020 1503408*
- Formation and Evolution of Soliton in Two-Mode Fiber Laser. *Zheng, Y., +, JPHOT Aug. 2020 3200408*
- Frequency-Sweep-Range-Reconfigurable Complementary Linearly Chirped Microwave Waveform Pair Generation by Using a Fourier Domain Mode Locking Optoelectronic Oscillator Based on Stimulated Brillouin Scattering. *Zhang, L., +, JPHOT June 2020 5501010*
- Generation of 1.8-W Average Power From a Diode-Pumped Femtosecond Rotary Nd:Glass Disk Laser. *Gong, L., +, JPHOT Feb. 2020 1500306*
- Generation of Flat-Top Q-Switched Envelope Dissipative Soliton Resonance Pulse in Passively Mode-Locked Fiber Laser. *Han, L., +, JPHOT April 2020 7101508*
- L-band Wavelength-Switchable Dissipative Soliton Resonance Er-doped Fiber Laser. *Liu, S., +, JPHOT April 2020 1501206*
- Lead Sulfide Saturable Absorber Based Passively Mode-Locked Tm-Doped Fiber Laser. *Liu, F., +, JPHOT April 2020 1500910*
- Nonlinear Dynamics Induced by Optical Injection in Optical Frequency Combs Generated by Gain-Switching of Laser Diodes. *Quirce, A., +, JPHOT Aug. 2020 1503314*
- Nonlinear Polarization Evolution Mode-Locked YDFL Based on All-PM Fiber Cavity. *Wu, Z., +, JPHOT April 2020 1501807*
- Simulation for Generation of Several Types of Pulses in an Yb-Doped Mode-Locked Fiber Laser. *Cui, Y., +, JPHOT Dec. 2020 1504413*
- Vectorial Nature in Nonlinear Multimode Interference Based Ultrafast Fiber Lasers. *Xia, R., +, JPHOT April 2020 1501310*
- Watt-Level Continuous-Wave Mode-Locked Nd:YVO₄ Laser With ReSe₂ Saturable Absorber. *Xue, Y., +, JPHOT Oct. 2020 1503710*
- Laser modes**
- 1310 nm Narrow Linewidth Laser Assisted by the Feedback of Double-FBGs. *Iroegbu, P.I., +, JPHOT Oct. 2020 1503612*
- 2.5 kW Narrow Linewidth Linearly Polarized All-Fiber MOPA With Cascaded Phase-Modulation to Suppress SBS Induced Self-Pulsing. *Wang, Y., +, JPHOT June 2020 1502815*
- A Dual-Frequency Faraday Laser. *Shi, T., +, JPHOT Aug. 2020 1503211*
- A Monolithic Integrated Dual-Wavelength DFB Laser With Equivalent Inverse-Gaussian Apodized Grating. *Yuan, B., +, JPHOT Dec. 2020 3030669*
- All-Fiber Laser With Agile Mode-Switching Capability Through Intra-Cavity Conversion. *Wu, H., +, JPHOT April 2020 1500709*
- An Erbium Fiber Laser With Single-Frequency Oscillation and Wavelength-Upconverted Output. *Yeh, C., +, JPHOT Oct. 2020 7102807*
- Blue Laser Diode System With an Enhanced Wavelength Tuning Range. *Mukhtar, S., +, JPHOT April 2020 1502110*
- Cladding-Pumped Erbium-Ytterbium Co-Doped Fiber Amplifier With Dual-Wavelength Auxiliary Signal Injection of 1030 and 1040 nm. *Wei, S., +, JPHOT April 2020 1501509*
- Effects of Lateral Optical Confinement In GaN VCSELs With Double Dielectric DBRs. *Xu, R., +, JPHOT April 2020 1501708*
- Enhancement of Tetrahedral Chromium (Cr⁴⁺) Concentration for High-Gain in Single-Mode Crystalline Core Fibers. *Liu, C., +, JPHOT April 2020 7200811*
- Experimental Investigations on Polarization Switching and Bistability in a 1550 nm VCSEL Subject to Orthogonal Optical Injection With Time-Varying Injection Power. *Wang, Q., +, JPHOT Oct. 2020 1504108*
- High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*
- Multi-Wavelength SOA Fiber Laser With Ultra-Narrow Wavelength Spacing Based on NPR Effect. *Zhou, X., +, JPHOT Oct. 2020 7202408*

Nonlinear Dynamics Induced by Optical Injection in Optical Frequency Combs Generated by Gain-Switching of Laser Diodes. *Quirce, A., +, JPHOT Aug. 2020 1503314*

Regulating the Single-Mode Lasing Intensity of Semiconductor Lasers Without Wavelength Shift. *Wang, Y., +, JPHOT April 2020 6100709*

Simultaneous Generation of Multi-Channel Broadband Chaotic Signals Based on Two Unidirectionally Coupled WRC-FPLDs. *Hu, C., +, JPHOT Oct. 2020 1504008*

Switchable Multi-Wavelength Thulium-Doped Fiber Laser Using Four-Mode Fiber Based Sagnac Loop Filter. *Guo, Y., +, JPHOT April 2020 7100610*

Tailored Transverse Mode Vertical-Cavity Surface-Emitting Laser: Hollow Laser Beam Emission through Circle Aperture. *Zhou, Y., +, JPHOT Aug. 2020 1503106*

Vertically Coupled Partially Tapered Ridge Waveguide Semiconductor FP Laser With Improved Divergence Angles. *Lan, M., +, JPHOT Oct. 2020 1504312*

Laser noise

2.5 kW Narrow Linewidth Linearly Polarized All-Fiber MOPA With Cascaded Phase-Modulation to Suppress SBS Induced Self-Pulsing. *Wang, Y., +, JPHOT June 2020 1502815*

Amplification Characteristics of a Coumarin 460-Based Tunable Amplifier. *Shen, J., +, JPHOT April 2020 1501908*

Compact, High-Performance All-Polarization-Maintaining Er: Fiber Frequency Comb With Single Fiber Actuator. *Cai, Y., +, JPHOT Aug. 2020 7102508*

Fourier and Inverse Fourier Transform Model for Delayed Self-interferometry System. *Zhang, L., +, JPHOT June 2020 5501511*

Frequency Quasi-Linear Swept Light Source Based on Multi-Frequency Time-Matched Spectrum Stitching. *Wen, L., +, JPHOT Dec. 2020 1400208*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*

Injection-Locked Quantum-Dash Laser in Far L-Band 192 Gbit/s DWDM Transmission. *Khan, M.Z.M., +, JPHOT Oct. 2020 1504211*

Multi-Wavelength SOA Fiber Laser With Ultra-Narrow Wavelength Spacing Based on NPR Effect. *Zhou, X., +, JPHOT Oct. 2020 7202408*

Optical Property of Polarization-Maintaining Fiber Taper for Tunable Multi-Wavelength Fiber Laser Generation. *Yuan, F., +, JPHOT Feb. 2020 7100109*

Laser stability

1310 nm Narrow Linewidth Laser Assisted by the Feedback of Double-FBGs. *Iroegbu, P.I., +, JPHOT Oct. 2020 1503612*

A Novel Repetition Rate Adjustable SBS-Based Q-Switched Fiber Laser. *Hou, S., +, JPHOT April 2020 1501408*

Effects of Power Split Ratio and Optical Delay Phase Tuning on Stabilization of Self-Mode-Locked Quantum-Dash Lasers Subject to Dual-Loop Optical Feedback. *Asgar, H., +, JPHOT April 2020 1502211*

Environmentally Stable 1.56- μm Femtosecond Laser System With Discontinuous Selectable Repetition Rate. *Fu, H., +, JPHOT June 2020 1502507*

Fourier and Inverse Fourier Transform Model for Delayed Self-interferometry System. *Zhang, L., +, JPHOT June 2020 5501511*

Generation of Flat-Top Q-Switched Envelope Dissipative Soliton Resonance Pulse in Passively Mode-Locked Fiber Laser. *Han, L., +, JPHOT April 2020 7101508*

Multi-Wavelength SOA Fiber Laser With Ultra-Narrow Wavelength Spacing Based on NPR Effect. *Zhou, X., +, JPHOT Oct. 2020 7202408*

Switchable Multi-Wavelength Thulium-Doped Fiber Laser Using Four-Mode Fiber Based Sagnac Loop Filter. *Guo, Y., +, JPHOT April 2020 7100610*

Tailored Transverse Mode Vertical-Cavity Surface-Emitting Laser: Hollow Laser Beam Emission through Circle Aperture. *Zhou, Y., +, JPHOT Aug. 2020 1503106*

Laser tuning

A Design Method of Optical Phased Array With Insufficient Phase Tuning Range. *Yang, B., +, JPHOT April 2020 6600409*

Amplification Characteristics of a Coumarin 460-Based Tunable Amplifier. *Shen, J., +, JPHOT April 2020 1501908*

An Erbium Fiber Laser With Single-Frequency Oscillation and Wavelength-Upconverted Output. *Yeh, C., +, JPHOT Oct. 2020 7102807*

Blue Laser Diode System With an Enhanced Wavelength Tuning Range. *Mukhtar, S., +, JPHOT April 2020 1502110*

Compact, High-Performance All-Polarization-Maintaining Er: Fiber Frequency Comb With Single Fiber Actuator. *Cai, Y., +, JPHOT Aug. 2020 7102508*

Effects of Power Split Ratio and Optical Delay Phase Tuning on Stabilization of Self-Mode-Locked Quantum-Dash Lasers Subject to Dual-Loop Optical Feedback. *Asgar, H., +, JPHOT April 2020 1502211*

Efficient and Tunable 1.6- μm MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO₄/YVO₄ Raman Laser. *Zhao, L., +, JPHOT Feb. 2020 1500107*

Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K., +, JPHOT Feb. 2020 1500409*

Generation of Flat-Top Q-Switched Envelope Dissipative Soliton Resonance Pulse in Passively Mode-Locked Fiber Laser. *Han, L., +, JPHOT April 2020 7101508*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*

High-Power High-Repetition-Rate Tunable Yellow Light Generation by an Intracavity-Frequency-Doubled Singly Resonant Optical Parametric Oscillator. *Sun, B., +, JPHOT June 2020 1502310*

Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving. *Zhang, T., +, JPHOT Dec. 2020 5502512*

Large-Scale Integrated Multi-Lines Optical Phased Array Chip. *Zhang, L., +, JPHOT Aug. 2020 6601208*

Optical Property of Polarization-Maintaining Fiber Taper for Tunable Multi-Wavelength Fiber Laser Generation. *Yuan, F., +, JPHOT Feb. 2020 7100109*

Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μm Wavelength Band. *Liu, Y., +, JPHOT Aug. 2020 4900308*

Transmission Distance Extension of Directly Modulated Tunable V-cavity Laser Using AWG Wavelength Detuning. *Zhuang, Y., +, JPHOT June 2020 7201707*

Tunable 2 μm Fiber Laser Utilizing a Modified Sagnac Filter Incorporating Cascaded Polarization Maintaining Fibers. *Chen, E., +, JPHOT Feb. 2020 1500507*

Tunable Multi-Wavelength Bright-Dark and Dark-Bright Pulse Pairs Fiber Lasers. *Xin, Y., +, JPHOT Dec. 2020 7103209*

Ultrafine Frequency Linearly Tunable Single-Frequency Fiber Laser Based on Intracavity Active Tuning. *Jin, L., +, JPHOT April 2020 1500806*

Lattice filters

Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength. *Li, J., +, JPHOT Aug. 2020 6601309*

Lattices

Dimensional Transformations of Guided-Mode Resonant Photonic Lattices. *Watanabe, A., +, JPHOT Dec. 2020 4502108*

Leakage currents

An Amorphous (Al_{0.12}Ga_{0.88})₂O₃ Deep Ultraviolet Photodetector. *Liu, S., +, JPHOT Aug. 2020 6801908*

Extended Electrical and Photonic Characterization of GaN-Based Ultra-Violet MicroLEDs With an ITO Emission Window Layer. *Tsai, Y., +, JPHOT Dec. 2020 2400409*

Learning (artificial intelligence)

A Robust Reference Optical Spectrum Based in-Band OSNR Monitoring Method Suitable for Flexible Optical Networks. *Zhong, Y., +, JPHOT June 2020 7201310*

Angle-of-Arrival (AOA) Visible Light Positioning (VLP) System Using Solar Cells With Third-Order Regression and Ridge Regression Algorithms. *Hong, C., +, JPHOT June 2020 7902605*

Computational Ghost Imaging in Scattering Media Using Simulation-Based Deep Learning. *Gao, Z., +, JPHOT Oct. 2020 6803115*

Digital Holographic Reconstruction Based on Deep Learning Framework With Unpaired Data. *Yin, D., +, JPHOT April 2020 3900312*

Enhancement of Chest X-Ray Images to Improve Screening Accuracy Rate Using Iterated Function System and Multilayer Fractional-Order Machine Learning Classifier. *Lin, C., +, JPHOT Aug. 2020 4100218*

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K., +, JPHOT Oct. 2020 2200611*

Nonlinear Resilient Learning Method Based on Joint Time-Frequency Image Analysis in Underwater Visible Light Communication. *Chen, H., +, JPHOT April 2020 7901610*

Optimizing Handover Parameters by Q-Learning for Heterogeneous Radio-Optical Networks. *Shao, S., +, JPHOT Feb. 2020 7900615*

Polarimetric Identification of 3D-Printed Nano Particle Encoded Optical Codes. *Ahmadi, K., +, JPHOT June 2020 6500810*

Research on 2F Optical Correlator Based on Neural Network Filter for Recognizing Large-Angle Rotation Distortion Target. *Yang, T., +, JPHOT April 2020 7800310*

Restoration of Out-of-Focus Fluorescence Microscopy Images Using Learning-Based Depth-Variant Deconvolution. *He, D., +, JPHOT April 2020 3900113*

Traffic-Adaptive Inter Wavelength Load Balancing for TWDM PON. *Memon, K.A., +, JPHOT Feb. 2020 7200408*

Using Linear Interpolation to Reduce the Training Samples for Regression Based Visible Light Positioning System. *Wu, Y., +, JPHOT April 2020 7901305*

Learning systems

A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M., +, JPHOT Dec. 2020 7906212*

LED displays

Experimental Demonstration of Continuous Sensor Data Monitoring Using Neural Network-Based Optical Camera Communications. *Ahmed, M.F., +, JPHOT Oct. 2020 7905011*

Improved Performance of Passive-Matrix Micro-LED Displays Using a Multi-Function Passivation Structure. *Chen, P., +, JPHOT Aug. 2020 7000711*

Integrating Backlight With Color-Filter-Free Panel for Enhancing Performance of LCD. *Teng, T., +, JPHOT Feb. 2020 7000116*

LED lamps

A Fast and High-Accuracy Real-Time Visible Light Positioning System Based on Single LED Lamp With a Beacon. *Li, H., +, JPHOT Dec. 2020 7906512*

Electrical and Thermal Effects of Tunable LED Systems on Lighting and Non-Visual Biological Characteristics. *Shen, X., +, JPHOT June 2020 8200313*

Using Linear Interpolation to Reduce the Training Samples for Regression Based Visible Light Positioning System. *Wu, Y., +, JPHOT April 2020 7901305*

Lenses

A Performance Study of Dielectric Metalens with Process-Induced Defects. *Zhou, Y., +, JPHOT June 2020 4500414*

An Image-Based Alignment Errors Correction Method for Segmented Fresnel Primary Mirror. *Zhu, L., +, JPHOT April 2020 6900614*

Analysis of Tapered Nanopillars for Reflective Metalens: The Role of Higher-Order Modes. *Lin, R., +, JPHOT Aug. 2020 4600907*

Characterization of Field of View in Visible Light Communication Systems for Intelligent Transportation Systems. *Seminara, M., +, JPHOT Aug. 2020 7903816*

Compact, High-Performance All-Polarization-Maintaining Er: Fiber Frequency Comb With Single Fiber Actuator. *Cai, Y., +, JPHOT Aug. 2020 7102508*

High Precision Fabrication Method of Fresnel Diffractive Lenses on Ultrathin Membrane for Imaging Application. *Liu, X., +, JPHOT Aug. 2020 2400310*

Irrational Nanobricks Based High-Efficiency Polarization-Independence Metasurfaces. *Wang, W., +, JPHOT Aug. 2020 4501108*

Misalignment Calculation on Off-Axis Telescope System via Fully Connected Neural Network. *Liu, Z., +, JPHOT Aug. 2020 0600112*

Optical Trapping and Separation of Metal Nanoparticles by Cylindrical Metalenses With Phase Gradients. *Shen, Z., +, JPHOT Aug. 2020 4600810*

Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F., +, JPHOT Aug. 2020 7904512*

Light absorption

Coherent Perfect Absorber Based on Antisymmetric Metasurface With Gain Material. *Chen, M., +, JPHOT June 2020 4500609*

High-Performance Microring Resonator Ge-on-Si Photodetectors by Optimizing Absorption Layer Length. *Cui, J., +, JPHOT Aug. 2020 6802208*

Light Extraction Efficiency of GaN-Based Micro-Scale Light-Emitting Diodes Investigated Using Finite-Difference Time-Domain Simulation. *Ryu, H., +, JPHOT April 2020 1600110*

Nonmetallic Broadband Visible-Light Absorbers With Polarization and Incident Angle Insensitivity. *Yu, Y., +, JPHOT Dec. 2020 2200807*

Simultaneous Mid-Infrared Gas Sensing and Upconversion Based on Third Harmonic Generation in Cascaded Waveguides. *Pan, J., +, JPHOT April 2020 6800912*

Tunable and Reconfigurable Dual-Band Chiral Metamirror. *Fan, J., +, JPHOT Oct. 2020 4601108*

Light attenuation

The Link Attenuation Model Based on Monte Carlo Simulation for Laser Transmission in Fog Channel. *Hu, S., +, JPHOT Aug. 2020 6100910*

Toward Long-Distance Underwater Wireless Optical Communication Based on A High-Sensitivity Single Photon Avalanche Diode. *Chen, H., +, JPHOT June 2020 7902510*

Light coherence

Coherent Perfect Absorber Based on Antisymmetric Metasurface With Gain Material. *Chen, M., +, JPHOT June 2020 4500609*

Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. *Wenclawiak, M., +, JPHOT Oct. 2020 5900608*

Light diffraction

A Hybrid Algorithm for Multi-Beam Steering of LCOS-Based Wavelength Selective Switch. *Gao, Y., +, JPHOT June 2020 7903011*

Asymmetric Optical Image Encryption With Silhouette Removal Using Interference and Equal Modulus Decomposition. *Luan, G., +, JPHOT April 2020 6900508*

Hybrid Angular Gradient Phase Grating for Measuring the Orbital Angular Momentum of Perfect Optical Vortex Beams. *Chu, C., +, JPHOT June 2020 7902409*

Light Diffraction From a Flexible Patterned Layer With Periodically Arranged Dimples. *Haldar, A., +, JPHOT Oct. 2020 2700210*

Polarization-Independent Two-Layer Grating With Five-Port Splitting Output Under Normal Incidence. *Gong, B., +, JPHOT April 2020 6500208*

Light emitting diodes

450 nm Gallium Nitride Alternating Current Light-Emitting Diode. *Hartensveld, M., +, JPHOT Dec. 2020 8200906*

A Novel Method for Constructing VLC Equalizer With Active-Passive Hybrid Network. *Min, C., +, JPHOT April 2020 7500310*

An Alternative Approach for High Uniformity Distribution of Indoor Lighting LED. *Giang, D.T., +, JPHOT April 2020 7100810*

Angular Color Uniformity Enhancement for Color-Mixed LEDs by Introducing a Diffusing Coating Layer. *Zhu, X., +, JPHOT Aug. 2020 8200712*

Characterization of Field of View in Visible Light Communication Systems for Intelligent Transportation Systems. *Seminara, M., +, JPHOT Aug. 2020 7903816*

Demonstration of a 2.34 Gbit/s Real-Time Single Silicon-Substrate Blue LED-Based Underwater VLC System. *Chen, M., +, JPHOT Feb. 2020 7900211*

Electrical and Thermal Effects of Tunable LED Systems on Lighting and Non-Visual Biological Characteristics. *Shen, X., +, JPHOT June 2020 8200313*

Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M., +, JPHOT June 2020 8200408*

Establishment and Solution for a Mathematical Model of Multiple Diffuse Reflection. *Zhu, Z., +, JPHOT Aug. 2020 6500917*

Experimental Demonstration of Continuous Sensor Data Monitoring Using Neural Network-Based Optical Camera Communications. *Ahmed, M.F., +, JPHOT Oct. 2020 7905011*

- Extended Electrical and Photonic Characterization of GaN-Based Ultra-Violet MicroLEDs With an ITO Emission Window Layer. *Tsai, Y.*, +, *JPHOT Dec. 2020 2400409*
- Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays. *Arvanitakis, G.N.*, +, *JPHOT April 2020 7901210*
- High-Performance Semi-Polar InGaN/GaN Green Micro Light-Emitting Diodes. *Xu, F.*, +, *JPHOT Feb. 2020 2500107*
- Investigation on Circadian Action and Color Quality in Laser-Based Illuminant for General Lighting and Display. *Lei, S.*, +, *JPHOT Aug. 2020 8200509*
- Light Extraction Efficiency of GaN-Based Micro-Scale Light-Emitting Diodes Investigated Using Finite-Difference Time-Domain Simulation. *Ryu, H.*, +, *JPHOT April 2020 1600110*
- Light-Emitting Commutating Diodes for Optical Wireless Communications Within LED Drivers. *Pawlikowski, W.*, +, *JPHOT Oct. 2020 7905111*
- Machine-Learning Assisted Prediction of Spectral Power Distribution for Full-Spectrum White Light-Emitting Diode. *Fan, J.*, +, *JPHOT Feb. 2020 8200218*
- Memory-Based Codes for Uniform Illumination in MIMO VLC. *Uday, T.*, +, *JPHOT April 2020 7902115*
- On the Impact of Electron Leakage on the Efficiency Droop for AlGaIn Based Deep Ultraviolet Light Emitting Diodes. *Chu, C.*, +, *JPHOT June 2020 1600207*
- Optical Tunneling to Improve Light Extraction in Quantum Dot and Perovskite Light-Emitting Diodes. *Mei, G.*, +, *JPHOT Dec. 2020 1600314*
- Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F.*, +, *JPHOT Aug. 2020 7904512*
- Should Analogue Pre-Equalisers be Avoided in VLC Systems?. *Li, X.*, +, *JPHOT April 2020 7901014*
- Spatial Multiplexing MIMO Visible Light Communications With Densely Distributed LEDs and PDs. *Zheng, D.*, +, *JPHOT Oct. 2020 7905807*
- Temperature-Dependent Carrier Recombination and Efficiency Droop of AlGaIn Deep Ultraviolet Light-Emitting Diodes. *Peng, Z.*, +, *JPHOT Feb. 2020 8200108*
- The Impact of Resonance on the Light Extraction Efficiency of Single Nanowire Ultraviolet Light Emitting Diodes. *Zhang, Z.*, +, *JPHOT Aug. 2020 8200610*
- Ultraviolet Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M.*, +, *JPHOT Oct. 2020 8200808*

Light interference

- Asymmetric Optical Image Encryption With Silhouette Removal Using Interference and Equal Modulus Decomposition. *Luan, G.*, +, *JPHOT April 2020 6900508*
- Enhancing the Performance of Two-Terminal All-Perovskite Tandem Solar Cells by the Optical Coupling Layer Beyond the Antireflection Function. *Liu, C.*, +, *JPHOT Oct. 2020 8400312*
- Measurement of Principal Modes in Few-Mode Fibers by S² Method. *Di, Z.*, +, *JPHOT April 2020 7101308*
- Phase Calibration of On-Chip Optical Phased Arrays via Interference Technique. *Zhang, H.*, +, *JPHOT April 2020 6600210*
- Pre-Distorted Enhanced ADO-OFDM for Hybrid VLC Networks: A Mutual-Interference-Free Approach. *Huang, X.*, +, *JPHOT April 2020 7901512*
- Quantitative Phase Imaging During Cell Division Based on Dual-Channel Microscopic Interferometry System. *Liu, S.*, +, *JPHOT Feb. 2020 6900411*
- Vectorial Nature in Nonlinear Multimode Interference Based Ultrafast Fiber Lasers. *Xia, R.*, +, *JPHOT April 2020 1501310*
- Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P.*, +, *JPHOT Dec. 2020 6602409*

Light interferometers

- Compact, High-Performance All-Polarization-Maintaining Er: Fiber Frequency Comb With Single Fiber Actuator. *Cai, Y.*, +, *JPHOT Aug. 2020 7102508*
- Tip/tilt Alignment for a Fizeau Interferometer via Defocus-Based Sub-Spot Separation. *Lv, W.*, +, *JPHOT Dec. 2020 3901113*

Light interferometry

- Fourier and Inverse Fourier Transform Model for Delayed Self-Interferometry System. *Zhang, L.*, +, *JPHOT June 2020 5501511*
- Quantitative Phase Imaging During Cell Division Based on Dual-Channel Microscopic Interferometry System. *Liu, S.*, +, *JPHOT Feb. 2020 6900411*
- RF Interferometry Measurement of Beat Length in Polarization-Maintaining Fiber. *Peng, L.*, +, *JPHOT April 2020 5500608*

Light polarization

- Adaptive Blind Stokes-Space Based Equalizer for RSOP in SV-DD Systems With High Chromatic Dispersion Tolerance. *Jin, Y.*, +, *JPHOT April 2020 7200913*
- All-Dielectric Metasurface-Based Quad-Beam Splitter in the Terahertz Regime. *Lv, B.*, +, *JPHOT Oct. 2020 4601410*
- Automated Adaptation and Stabilization of a Tunable WDM Polarization-Independent Receiver on Active Silicon Photonic Platform. *Ma, M.*, +, *JPHOT Aug. 2020 4900411*
- Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L.*, +, *JPHOT Oct. 2020 6601906*
- Copying a Plasmonic Signal From an Optical Signal. *Koo, S.*, +, *JPHOT Aug. 2020 4800607*
- Dual Gm-APD Polarization Lidar to Acquire the Depth Image of Shallow Semitransparent Media With a Wide Laser Pulse. *Xu, L.*, +, *JPHOT Oct. 2020 6803310*
- Enhancement of SOA-Based Scintillation Mitigation by PS-OOK Transmission in FSO Communication. *Hong, Y.*, +, *JPHOT Aug. 2020 7903510*
- Experimental Investigations on Polarization Switching and Bistability in a 1550 nm VCSEL Subject to Orthogonal Optical Injection With Time-Varying Injection Power. *Wang, Q.*, +, *JPHOT Oct. 2020 1504108*
- Generation of Optical Vortices With Polarization-Insensitive Metasurfaces. *Shen, Z.*, +, *JPHOT Aug. 2020 4601010*
- Generation of Spiral Spin Density Vectors With A Circularly Polarized, Vortex Beam. *Pang, X.*, +, *JPHOT April 2020 6500514*
- Integrating Backlight With Color-Filter-Free Panel for Enhancing Performance of LCD. *Teng, T.*, +, *JPHOT Feb. 2020 7000116*
- Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule. *Zhang, W.*, +, *JPHOT Feb. 2020 2200108*
- Interleaved Subwavelength Gratings Strip Waveguide Based TM Pass Polarizer on SOI Platform. *Xu, Z.*, +, *JPHOT April 2020 4900110*
- Irrational Nanobricks Based High-Efficiency Polarization-Independence Metasurfaces. *Wang, W.*, +, *JPHOT Aug. 2020 4501108*
- Nanoscale Noncoplanar Beam Splitters With Tunable Split Ratio. *Tian, S.*, +, *JPHOT April 2020 4600309*
- Nonmetallic Broadband Visible-Light Absorbers With Polarization and Incident Angle Insensitivity. *Yu, Y.*, +, *JPHOT Dec. 2020 2200807*
- Optimized Multilayer Structures With Ultrabroadband Near-Perfect Absorption. *You, C.*, +, *JPHOT June 2020 4500810*
- Orbital Energy and Spin Flows in a Strong Focus of Laser Light. *Kotlyar, V.V.*, +, *JPHOT Oct. 2020 4501713*
- Photonic Generation of Triangular-Shaped Waveform With Tunable Symmetry Factor Based on Two Single-Drive Mach-Zehnder Modulator. *Wang, C.*, +, *JPHOT Dec. 2020 5502411*
- Polarization Coupling Based on Faraday Effect in Whispering-Gallery-Mode Resonator. *Nie, Y.*, +, *JPHOT April 2020 5300107*
- Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D.*, +, *JPHOT Dec. 2020 5502814*
- Polarization Independent Unidirectional Scattering With Turnstile Nanoantennas. *Rocco, D.*, +, *JPHOT Dec. 2020 4501908*
- Polarization-Independent Two-Layer Grating With Five-Port Splitting Output Under Normal Incidence. *Gong, B.*, +, *JPHOT April 2020 6500208*
- Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides. *Zhang, B.*, +, *JPHOT April 2020 6600610*
- Switchable Quarter-Wave Plate and Half-Wave Plate Based on Phase-Change Metasurface. *Li, Y.*, +, *JPHOT April 2020 4600410*
- Tunable and Reconfigurable Dual-Band Chiral Metamirror. *Fan, J.*, +, *JPHOT Oct. 2020 4601108*

Vanadium Dioxide-Based Bifunctional Metamaterial for Terahertz Waves. Zhang, M., +, *JPHOT Feb. 2020 4600109*

Light propagation

Generation of Spiral Spin Density Vectors With A Circularly Polarized, Vortex Beam. Pang, X., +, *JPHOT April 2020 6500514*

Interleaved Subwavelength Gratings Strip Waveguide Based TM Pass Polarizer on SOI Platform. Xu, Z., +, *JPHOT April 2020 4900110*

Lommel-Gaussian Pulsed Beams Carrying Orbital Angular Momentum Propagation in Asymmetric Oceanic Turbulence. Li, Y., +, *JPHOT Feb. 2020 7900915*

Modeling and Optimization of Vortex Modes Propagation in Rectangular Dielectric Waveguides. Lyubopytov, V.S., +, *JPHOT Feb. 2020 6100117*

Orbital Energy and Spin Flows in a Strong Focus of Laser Light. Kotlyar, V.V., +, *JPHOT Oct. 2020 4501713*

Sensitivity-Based Structural Optimal Design With Bi-Directional Beam Propagation Method for Photonic Devices in High-Index-Contrast Waveguides. Iguchi, A., +, *JPHOT Oct. 2020 6602111*

Vertically Coupled Partially Tapered Ridge Waveguide Semiconductor FP Laser With Improved Divergence Angles. Lan, M., +, *JPHOT Oct. 2020 1504312*

Light reflection

Angular Color Uniformity Enhancement for Color-Mixed LEDs by Introducing a Diffusing Coating Layer. Zhu, X., +, *JPHOT Aug. 2020 8200712*

Blue Laser Diode System With an Enhanced Wavelength Tuning Range. Mukhtar, S., +, *JPHOT April 2020 1502110*

High Sensitivity Terahertz Biosensor Based on Goos-Hänchen Effect in Graphene. Liu, J., +, *JPHOT April 2020 6801206*

Interleaved Subwavelength Gratings Strip Waveguide Based TM Pass Polarizer on SOI Platform. Xu, Z., +, *JPHOT April 2020 4900110*

Resonant Reflection From Cylindrical Grating-Waveguide Under Holistic Excitation. Koussi, E.K., +, *JPHOT April 2020 2700111*

Spectrum Intensity Ratio Detection for Frequency Domain Weak Measurement System. Yang, Y., +, *JPHOT Aug. 2020 7800912*

Tapered Polymer Fiber Inclination. Lee, C., +, *JPHOT June 2020 7100910*

Light refraction

Nanoscale Noncoplanar Beam Splitters With Tunable Split Ratio. Tian, S., +, *JPHOT April 2020 4600309*

Light scattering

Angular Color Uniformity Enhancement for Color-Mixed LEDs by Introducing a Diffusing Coating Layer. Zhu, X., +, *JPHOT Aug. 2020 8200712*

Depth Scattering Characterization of Multi-Layer Turbid Media Based on Iterative Multi-Plane Reflectance Measurements. Yariv, I., +, *JPHOT Oct. 2020 3700713*

Imaging and Tracking Through Scattering Medium With Low Bit Depth Speckle. Xu, Q., +, *JPHOT April 2020 6900807*

Impulse Response Modeling of Underwater Optical Scattering Channels for Wireless Communication. Boluda-Ruiz, R., +, *JPHOT Aug. 2020 7904414*

Polarization Independent Unidirectional Scattering With Turnstile Nanoantennas. Rocco, D., +, *JPHOT Dec. 2020 4501908*

Scatterometer and Intensity Distribution Meter With Screen Image Synthesis. Yu, Y., +, *JPHOT Oct. 2020 6501012*

The Link Attenuation Model Based on Monte Carlo Simulation for Laser Transmission in Fog Channel. Hu, S., +, *JPHOT Aug. 2020 6100910*

Towards Non-Contact Glucose Sensing in Aqueous Turbid Medium at 1.1 Meters Distance. Piao, D., +, *JPHOT Aug. 2020 3700523*

Light sources

A Dual-Frequency Faraday Laser. Shi, T., +, *JPHOT Aug. 2020 1503211*

Atmospheric Turbulence Suppression Algorithm Based on APD Adaptive Gain Control for FSO Links of 5G Floating Base Stations. Yu, X., +, *JPHOT Aug. 2020 7904011*

Electrical and Thermal Effects of Tunable LED Systems on Lighting and Non-Visual Biological Characteristics. Shen, X., +, *JPHOT June 2020 8200313*

Integrating Backlight With Color-Filter-Free Panel for Enhancing Performance of LCD. Teng, T., +, *JPHOT Feb. 2020 7000116*

Light transmission

A Transceiver Design Based on an Autoencoder Network for Multi-Color VLC Systems. Zhang, D., +, *JPHOT June 2020 7902716*

Adaptive Blind Stokes-Space Based Equalizer for RSOP in SV-DD Systems With High Chromatic Dispersion Tolerance. Jin, Y., +, *JPHOT April 2020 7200913*

Analysis of Tapered Nanopillars for Reflective Metalens: The Role of Higher-Order Modes. Lin, R., +, *JPHOT Aug. 2020 4600907*

Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser. Huang, H., +, *JPHOT June 2020 1503008*

Experimental Study of Hollow-Core Photonic Crystal Fiber Optical Switching Effect in Liquid Nitrogen Environment. Song, N., +, *JPHOT June 2020 7101806*

Generation of Optical Vortices With Polarization-Insensitive Metasurfaces. Shen, Z., +, *JPHOT Aug. 2020 4601010*

High-Performance Microring Resonator Ge-on-Si Photodetectors by Optimizing Absorption Layer Length. Cui, J., +, *JPHOT Aug. 2020 6802208*

Improve The Capacity Of Data Transmission In Orbital Angular Momentum Multiplexing By Adjusting Link Structure. Zhao, L., +, *JPHOT June 2020 5501111*

Investigation of Enhanced Transmission and Beaming Effect Through an InSb Subwavelength Grating With a Slit at the Terahertz Range. Liu, X., +, *JPHOT Feb. 2020 4800112*

Irrational Nanobricks Based High-Efficiency Polarization-Independence Metasurfaces. Wang, W., +, *JPHOT Aug. 2020 4501108*

Nonlinearity Mitigation of Multi-Level Optical Transmission Using Spectrum-Split Digital Pre-Distortion. Lim, G., +, *JPHOT Feb. 2020 7200208*

Optimized Multilayer Structures With Ultrabroadband Near-Perfect Absorption. You, C., +, *JPHOT June 2020 4500810*

Polarization Coupling of X-Cut Thin Film Lithium Niobate Based Waveguides. Wang, J., +, *JPHOT June 2020 2200310*

Spatial-Dependent Hamiltonian Formulation of Cross-Mode Modulation. Yang, H., +, *JPHOT Feb. 2020 6100208*

Study on the k-Connectivity of UV Communication Network Under the Node Distribution of RWP Mobility Model in the Arbitrary Polygon Area. Li, C., +, *JPHOT Aug. 2020 7903912*

The Link Attenuation Model Based on Monte Carlo Simulation for Laser Transmission in Fog Channel. Hu, S., +, *JPHOT Aug. 2020 6100910*

Lighting

An Alternative Approach for High Uniformity Distribution of Indoor Lighting LED. Giang, D.T., +, *JPHOT April 2020 7100810*

Constant Weight Space-Time Codes for Dimmable MIMO-VLC Systems. Guo, J., +, *JPHOT Dec. 2020 7906815*

Design of Optimal Illumination Patterns in Single-Pixel Imaging Using Image Dictionaries. Feng, J., +, *JPHOT Aug. 2020 6901509*

Electrical and Thermal Effects of Tunable LED Systems on Lighting and Non-Visual Biological Characteristics. Shen, X., +, *JPHOT June 2020 8200313*

Investigation on Circadian Action and Color Quality in Laser-Based Illuminant for General Lighting and Display. Lei, S., +, *JPHOT Aug. 2020 8200509*

Lighting control

Light-Emitting Commutating Diodes for Optical Wireless Communications Within LED Drivers. Pawlikowski, W., +, *JPHOT Oct. 2020 7905111*

Liquid crystal devices

Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays. Wang, Z., +, *JPHOT June 2020 4800410*

Liquid crystal displays

Integrating Backlight With Color-Filter-Free Panel for Enhancing Performance of LCD. Teng, T., +, *JPHOT Feb. 2020 7000116*

Stacked Encapsulation Structure for Discretely Distributed Quantum Dot Array. Cai, J., +, *JPHOT April 2020 7000310*

Liquid crystal on silicon

A Hybrid Algorithm for Multi-Beam Steering of LCOS-Based Wavelength Selective Switch. Gao, Y., +, *JPHOT June 2020 7903011*

Liquid crystals

Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays. Wang, Z., +, *JPHOT June 2020 4800410*

Lithium compounds

Actively Q-Switched Tm:YAP Laser Constructed Using an Electro-Optic Periodically Poled Lithium Niobate Bragg Modulator. *Lin, S.*, +, *JPHOT Oct. 2020 1503509*

Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. *Li, K.*, +, *JPHOT Oct. 2020 1503811*

Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L.*, +, *JPHOT Oct. 2020 6601906*

Efficient and Tunable 1.6- μm MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO₄/YVO₄ Raman Laser. *Zhao, L.*, +, *JPHOT Feb. 2020 1500107*

Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K.*, +, *JPHOT Feb. 2020 1500409*

Generation of Terawatt-Scale Vortex Pulses Based on Optical Parametric Chirped-Pulse Amplification. *Pan, W.*, +, *JPHOT June 2020 1502608*

Nonlinear Bound States in the Continuum of Etchless Lithium Niobate Metasurfaces. *Yang, Q.*, +, *JPHOT Oct. 2020 4601209*

Polarization Coupling of X-Cut Thin Film Lithium Niobate Based Waveguides. *Wang, J.*, +, *JPHOT June 2020 2200310*

Tunable and Reconfigurable Dual-Band Chiral Metamirror. *Fan, J.*, +, *JPHOT Oct. 2020 4601108*

Tunable Electromagnetically Induced Transparency-Like Spectrum in Lithium Niobate on Insulator Platform With Narrow Linewidth. *Yu, W.*, +, *JPHOT Oct. 2020 2700308*

Logic circuits

Nanoscale Optical Logic Circuits by Single-Step FRET. *Inoue, J.*, +, *JPHOT April 2020 6500112*

Logic design

A Precise High Count-Rate FPGA Based Multi-Channel Coincidence Counting System for Quantum Photonics Applications. *Arabul, E.*, +, *JPHOT April 2020 7500114*

Logic gates

Nanoscale Optical Logic Circuits by Single-Step FRET. *Inoue, J.*, +, *JPHOT April 2020 6500112*

Long Term Evolution

Optimizing Handover Parameters by Q-Learning for Heterogeneous Radio-Optical Networks. *Shao, S.*, +, *JPHOT Feb. 2020 7900615*

Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J.*, +, *JPHOT June 2020 5501414*

Low-power electronics

Impact of Temperature and Doping on the Performance of Ge/Ge_{1-x}Sn_x/Ge Heterojunction Phototransistors. *Kumar, H.*, +, *JPHOT June 2020 6801814*

Lung

Enhancement of Chest X-Ray Images to Improve Screening Accuracy Rate Using Iterated Function System and Multilayer Fractional-Order Machine Learning Classifier. *Lin, C.*, +, *JPHOT Aug. 2020 4100218*

Lyapunov methods

Networked Chaotic Map Model and Its Applications in Color Multiple Image Encryption. *Sun, Y.*, +, *JPHOT Oct. 2020 7801218*

M**Mach-Zehnder interferometers**

A Microwave Frequency Measurement System Based on Si₃N₄ Ring-Assisted Mach-Zehnder Interferometer. *Zhang, H.*, +, *JPHOT Aug. 2020 7102213*

Corrections to “Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving” [Dec 20 Art. no. 5502512]. *Zhang, T.*, +, *JPHOT Dec. 2020 9700401*

D-Band mm-Wave SSB Vector Signal Generation Based on Cascaded Intensity Modulators. *Li, Y.*, +, *JPHOT April 2020 7201111*

Dual-Channel Phase-Tunable Down Converter With LO Frequency Doubling. *Wang, Y.*, +, *JPHOT Aug. 2020 5501710*

Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits. *Yu, X.*, +, *JPHOT Oct. 2020 2200708*

Filterless Radio-Over-Fiber System to Generate 40 and 80 GHz Millimeter-Wave. *Wu, Z.*, +, *JPHOT Dec. 2020 5502313*

Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving. *Zhang, T.*, +, *JPHOT Dec. 2020 5502512*

Intrusion Discrimination in Terms of LMD and ICA With Combined Features in The Fiber-Optic Perimeter System. *Li, M.*, +, *JPHOT April 2020 7101414*

Low Power Consumption Mode Switch Based on Three-Dimensional Polymer Mach-Zehnder Interferometer. *Lv, J.*, +, *JPHOT June 2020 7800810*

On-Chip All-Optical Tunable Filter With High Tuning Efficiency. *Chen, M.*, +, *JPHOT April 2020 7800510*

Optical Self-Interference Cancellation With Frequency Down-Conversion Based on Cascade Modulator. *Wang, J.*, +, *JPHOT Dec. 2020 5502708*

Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength. *Li, J.*, +, *JPHOT Aug. 2020 6601309*

Ultra-Wideband Signal Generation Based on a Silicon Segmented Mach-Zehnder Modulator. *Zhou, G.*, +, *JPHOT Dec. 2020 5502615*

Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P.*, +, *JPHOT Dec. 2020 6602409*

Magnesium compounds

Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. *Li, K.*, +, *JPHOT Oct. 2020 1503811*

Efficient and Tunable 1.6- μm MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO₄/YVO₄ Raman Laser. *Zhao, L.*, +, *JPHOT Feb. 2020 1500107*

Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K.*, +, *JPHOT Feb. 2020 1500409*

Magnetic field measurement

Magnetic Fluid Infiltrated Microbottle Resonator Sensor With Axial Confined Mode. *Hou, F.*, +, *JPHOT Oct. 2020 6802709*

Magnetic fluids

Magnetic Fluid Infiltrated Microbottle Resonator Sensor With Axial Confined Mode. *Hou, F.*, +, *JPHOT Oct. 2020 6802709*

Magnetic sensors

Magnetic Fluid Infiltrated Microbottle Resonator Sensor With Axial Confined Mode. *Hou, F.*, +, *JPHOT Oct. 2020 6802709*

Mammography

Symmetric Cryptography With Shift 2^{n-1} , Hash Transformation, Optimization-Based Controller for Medical Image Infosecurity: Case Study in Mammographic Image. *Chen, P.*, +, *JPHOT June 2020 4100115*

Masks

High Precision Fabrication Method of Fresnel Diffractive Lenses on Ultrathin Membrane for Imaging Application. *Liu, X.*, +, *JPHOT Aug. 2020 2400310*

Mathematical analysis

A Tunable Energy Signal for Intensity Modulation and Direct Detection Systems: Theory, Simulations, and Experiments. *Vejanla, K.*, +, *JPHOT Feb. 2020 7900412*

Matrix algebra

A Novel Hybrid Secure Method Based on DNA Encoding Encryption and Spiral Scrambling in Chaotic OFDM-PON. *Xiao, Y.*, +, *JPHOT June 2020 7201215*

Compressive Sensing Based on Mesoscopic Chaos of Silicon Optomechanical Photonic Crystal. *Guo, P.*, +, *JPHOT Oct. 2020 6602009*

Dynamic Physical-Layer Secured Link in a Mobile MIMO VLC System. *Younus, O.I.*, +, *JPHOT June 2020 7902814*

HyperSight: A Precise Decoding Algorithm for VLC With Mobile-Phone Camera. *Meng, Y.*, +, *JPHOT Aug. 2020 7904211*

Image Compression-Encryption Scheme via Fiber Specklegram-Based Compressive Sensing and Double Random Phase Encoding. *Liu, Y.*, +, *JPHOT Aug. 2020 7102311*

Machine-Learning Assisted Prediction of Spectral Power Distribution for Full-Spectrum White Light-Emitting Diode. *Fan, J.*, +, *JPHOT Feb. 2020 8200218*

Matrix multiplication

Compressive Optical Spectrometry Based on Sequence-Ordered Hadamard Transform. *Zhang, Y.*, +, *JPHOT Oct. 2020 3900908*

Maximum likelihood detection

Generalized Likelihood Block Detection for SPAD-Based Underwater VLC System. *Ji, Y.*, +, *JPHOT Feb. 2020 7900510*

Maxwell equations

Energy-Stable Time-Domain Finite Element Methods for the 3D Nonlinear Maxwell's Equations. *Anees, A.*, +, *JPHOT April 2020 6500415*

Mean square error methods

Compressive Optical Spectrometry Based on Sequency-Ordered Hadamard Transform. *Zhang, Y.*, +, *JPHOT Oct. 2020 3900908*

Optimized Support Vector Machine Assisted BOTDA for Temperature Extraction With Accuracy Enhancement. *Zhu, H.*, +, *JPHOT Feb. 2020 6800214*

Measurement by laser beam

A Dual-Frequency Faraday Laser. *Shi, T.*, +, *JPHOT Aug. 2020 1503211*

EWT-ASG: Empirical Wavelet Transform With Adaptive Savitzky-Golay Filtering for TDLAS. *He, J.*, +, *JPHOT June 2020 7800712*

Fourier and Inverse Fourier Transform Model for Delayed Self-interferometry System. *Zhang, L.*, +, *JPHOT June 2020 5501511*

Study on the Photoacoustic Technology to Simultaneous In-Situ Detection of the Cavity Ring-Down Spectrum for Multi-Optical Parameters. *Jin, H.*, +, *JPHOT April 2020 6800711*

Measurement errors

A Demodulation Method of Spatial Domain for Low-Coherence Interferometry With High Accuracy and Adaptability. *Wang, C.*, +, *JPHOT April 2020 6801111*

Instantaneous Microwave Frequency Measurement Based on Two Cascaded Photonic Crystal Nanocavities. *Liu, L.*, +, *JPHOT Dec. 2020 4501809*

Photonic Approach for Measuring AOA of Multiple Signals With Improved Measurement Accuracy. *Chen, H.*, +, *JPHOT June 2020 7201810*

Wideband and Ambiguous-Free RF Channelizer Assisted Jointly by Spacing and Profile of Optical Frequency Comb. *Lu, X.*, +, *JPHOT June 2020 5500911*

Measurement systems

Spectrum Intensity Ratio Detection for Frequency Domain Weak Measurement System. *Yang, Y.*, +, *JPHOT Aug. 2020 7800912*

Medical image processing

Automated Optical Flow Based Registration for Adaptive Optics Scanning Laser Ophthalmoscope. *Chen, Y.*, +, *JPHOT April 2020 3700109*

Conveyor X-Ray Tomosynthesis Imaging With Optimized Structured Sequential Illumination. *Ma, X.*, +, *JPHOT Oct. 2020 3400217*

Enhancement of Chest X-Ray Images to Improve Screening Accuracy Rate Using Iterated Function System and Multilayer Fractional-Order Machine Learning Classifier. *Lin, C.*, +, *JPHOT Aug. 2020 4100218*

High-Throughput Deep Learning Microscopy Using Multi-Angle Super-Resolution. *Zhang, J.*, +, *JPHOT April 2020 6900914*

Non-Invasive Optical Screening of *Streptococcus Pneumonia* Based Inflammatory Changes of the Tympanic Membrane and Mastoid Mucosa in Guinea Pig Otitis Media Using Optical Coherence Tomography. *Wijesinghe, R.E.*, +, *JPHOT Aug. 2020 3700611*

Real-Time Thermoacoustic Imaging-Guidance for Breast Tumor Resection. *Qin, H.*, +, *JPHOT June 2020 3700207*

Restoration of Out-of-Focus Fluorescence Microscopy Images Using Learning-Based Depth-Variant Deconvolution. *He, D.*, +, *JPHOT April 2020 3900113*

Robust Imaging Photoplethysmography in Long-Distance Motion. *Kong, L.*, +, *JPHOT June 2020 3900512*

Symmetric Cryptography With Shift 2^{n-1} , Hash Transformation, Optimization-Based Controller for Medical Image Infosecurity: Case Study in Mammographic Image. *Chen, P.*, +, *JPHOT June 2020 4100115*

Systematic Analysis for fNIRS Measurement Combining Sensitivity and SNR Based on the Colin27 Brain Template. *Wang, Y.*, +, *JPHOT Aug. 2020 3700413*

Melting

Stimulated Brillouin Scattering by Dual Lasers Pumping in WGM Microcavities. *Chen, Z.*, +, *JPHOT Dec. 2020 6101108*

Membranes

High Precision Fabrication Method of Fresnel Diffractive Lenses on Ultrathin Membrane for Imaging Application. *Liu, X.*, +, *JPHOT Aug. 2020 2400310*

Metal-semiconductor-metal structures

An Amorphous $(Al_{0.12}Ga_{0.88})_2O_3$ Deep Ultraviolet Photodetector. *Liu, S.*, +, *JPHOT Aug. 2020 6801908*

Metallic thin films

Broadband Passive Photonic Diodes With the Saturable Absorption in Antimony Thin Film. *Zhang, J.*, +, *JPHOT Feb. 2020 6100307*

Research on Fabrication and Performance of Hollow-Core Anti-Resonant Fiber Coated With Copper Film. *Wu, M.*, +, *JPHOT June 2020 7101708*

Metamaterial antennas

Switchable Quarter-Wave Plate and Half-Wave Plate Based on Phase-Change Metasurface. *Li, Y.*, +, *JPHOT April 2020 4600410*

Vertical Second Harmonic Generation in Asymmetric Dielectric Nanoantennas. *Rocco, D.*, +, *JPHOT June 2020 4500507*

Metasurfaces

Detection of Polarization and Topological Charge Based on Multidimensional Field of Metasurface. *Luan, J.*, +, *JPHOT Dec. 2020 4601510*

Michelson interferometers

An Enhanced Distributed Acoustic Sensor With Large Temperature Tolerance Based on Ultra-Weak Fiber Bragg Grating Array. *Li, C.*, +, *JPHOT Aug. 2020 7202211*

The Correction of Nonlinearity in Wavelength Scanning Based on Long-OPD Interferometer for Fiber Bragg Grating Demodulation in Environment With Variable Temperature. *Zhang, X.*, +, *JPHOT April 2020 7100410*

Micro-optics

All-Silicon Energy-Efficient Optical Diode Using Opto-Mechanical Microring Resonators. *Xu, L.*, +, *JPHOT June 2020 4501009*

Light Extraction Efficiency of GaN-Based Micro-Scale Light-Emitting Diodes Investigated Using Finite-Difference Time-Domain Simulation. *Ryu, H.*, +, *JPHOT April 2020 1600110*

Magnetic Fluid Infiltrated Microbottle Resonator Sensor With Axial Confined Mode. *Hou, F.*, +, *JPHOT Oct. 2020 6802709*

Method for Receiving Weak Microwave Photonics Signals Based on Electro-Optical Up-Conversion. *He, Q.*, +, *JPHOT Aug. 2020 5501910*

Polarization Coupling Based on Faraday Effect in Whispering-Gallery-Mode Resonator. *Nie, Y.*, +, *JPHOT April 2020 5300107*

Sixteen-Pixel NbN Nanowire Single Photon Detector Coupled With 300- μ m Fiber. *Chen, Q.*, +, *JPHOT Feb. 2020 6800112*

Stability Analysis and Transient Attraction Dynamics of Flat-Top Solitons via Modulated Driving Fields in Normal Dispersion Microcavity. *Jin, X.*, +, *JPHOT Oct. 2020 1503915*

Stimulated Brillouin Scattering by Dual Lasers Pumping in WGM Microcavities. *Chen, Z.*, +, *JPHOT Dec. 2020 6101108*

Surface Micro-Reflector Array for Augmented Reality Display. *Yan, Z.*, +, *JPHOT April 2020 7000209*

The Particle Induced Mode Splitting and Exceptional Points in Whispering-Gallery Mode Microcavity. *Xiao-Xue, J.*, +, *JPHOT Dec. 2020 6803414*

Twin Photonic Hooks Generated by Twin-Ellipse Microcylinder. *Shen, X.*, +, *JPHOT June 2020 6500609*

Ultrasensitive Sizing Sensor for a Single Nanoparticle in a Hybrid Nonlinear Microcavity. *Li, L.*, +, *JPHOT June 2020 4500708*

Micro-optomechanical devices

Air-Mode Photonic Crystal Micro-Ring Resonator With Enhanced Quality Factor for Refractive Index Sensing. *Xu, Y.*, +, *JPHOT June 2020 6601111*

Etched Silicon-on-Insulator Microring Resonator for Ultrasound Measurement. *Yang, W.*, +, *JPHOT April 2020 6801409*

High-Performance Microring Resonator Ge-on-Si Photodetectors by Optimizing Absorption Layer Length. *Cui, J.*, +, *JPHOT Aug. 2020 6802208*

Integrated Photonic Platform for Robust Differential Refractive Index Sensor. *Moras, A.L.*, +, *JPHOT Oct. 2020 6802910*

Numerical Investigation of Parametric Frequency Dependence in the Modeling of Octave-Spanning Kerr Frequency Combs. *Zhao, Y.*, +, *JPHOT April 2020 6600509*

On-Chip All-Optical Tunable Filter With High Tuning Efficiency. *Chen, M.*, +, *JPHOT April 2020 7800510*

On-Chip Low-Power Gray Code Generation Based on Opto-Mechanical Microring Resonators. *Liu, L.*, +, *JPHOT June 2020 4500312*

Tunable Germanium-on-Insulator Band-Stop Optical Filter Using Thermo-Optic Effect. *Ho, C.P.*, +, *JPHOT April 2020 6600307*

Microcavities

Dynamic Responses of Cylindrical Whispering Gallery Mode Revealed by Axial Liquid Disturbance. *Zhao, H.*, +, *JPHOT June 2020 7102009*

Magnetic Fluid Infiltrated Microbottle Resonator Sensor With Axial Confined Mode. *Hou, F.*, +, *JPHOT Oct. 2020 6802709*

Polarization Coupling Based on Faraday Effect in Whispering-Gallery-Mode Resonator. *Nie, Y.*, +, *JPHOT April 2020 5300107*

Stability Analysis and Transient Attraction Dynamics of Flat-Top Solitons via Modulated Driving Fields in Normal Dispersion Microcavity. *Jin, X.*, +, *JPHOT Oct. 2020 1503915*

Stimulated Brillouin Scattering by Dual Lasers Pumping in WGM Microcavities. *Chen, Z.*, +, *JPHOT Dec. 2020 6101108*

The Particle Induced Mode Splitting and Exceptional Points in Whispering-Gallery Mode Microcavity. *Xiao-Xue, J.*, +, *JPHOT Dec. 2020 6803414*

Ultrasensitive Sizing Sensor for a Single Nanoparticle in a Hybrid Nonlinear Microcavity. *Li, L.*, +, *JPHOT June 2020 4500708*

Microcavity lasers

Dynamic Responses of Cylindrical Whispering Gallery Mode Revealed by Axial Liquid Disturbance. *Zhao, H.*, +, *JPHOT June 2020 7102009*

Microfabrication

Integrated Photonic Platform for Robust Differential Refractive Index Sensor. *Moras, A.L.*, +, *JPHOT Oct. 2020 6802910*

Microfluidics

Controllable Droplet Generators by Light-Heat Energy Conversion for Selective Particle Encapsulation. *Chen, Y.*, +, *JPHOT Oct. 2020 7103109*

Micromechanical resonators

Air-Mode Photonic Crystal Micro-Ring Resonator With Enhanced Quality Factor for Refractive Index Sensing. *Xu, Y.*, +, *JPHOT June 2020 6601111*

All-Silicon Energy-Efficient Optical Diode Using Opto-Mechanical Microring Resonators. *Xu, L.*, +, *JPHOT June 2020 4501009*

Dynamic Responses of Cylindrical Whispering Gallery Mode Revealed by Axial Liquid Disturbance. *Zhao, H.*, +, *JPHOT June 2020 7102009*

Etched Silicon-on-Insulator Microring Resonator for Ultrasound Measurement. *Yang, W.*, +, *JPHOT April 2020 6801409*

High-Performance Microring Resonator Ge-on-Si Photodetectors by Optimizing Absorption Layer Length. *Cui, J.*, +, *JPHOT Aug. 2020 6802208*

Integrated Photonic Platform for Robust Differential Refractive Index Sensor. *Moras, A.L.*, +, *JPHOT Oct. 2020 6802910*

Numerical Investigation of Parametric Frequency Dependence in the Modeling of Octave-Spanning Kerr Frequency Combs. *Zhao, Y.*, +, *JPHOT April 2020 6600509*

On-Chip All-Optical Tunable Filter With High Tuning Efficiency. *Chen, M.*, +, *JPHOT April 2020 7800510*

On-Chip Low-Power Gray Code Generation Based on Opto-Mechanical Microring Resonators. *Liu, L.*, +, *JPHOT June 2020 4500312*

Tunable Germanium-on-Insulator Band-Stop Optical Filter Using Thermo-Optic Effect. *Ho, C.P.*, +, *JPHOT April 2020 6600307*

Micromirrors

Regulating the Single-Mode Lasing Intensity of Semiconductor Lasers Without Wavelength Shift. *Wang, Y.*, +, *JPHOT April 2020 6100709*

Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing. *Hu, M.*, +, *JPHOT Aug. 2020 5900309*

Microorganisms

Non-Invasive Optical Screening of *Streptococcus Pneumonia* Based Inflammatory Changes of the Tympanic Membrane and Mastoid Mucosa in Guinea Pig Otitis Media Using Optical Coherence Tomography. *Wijesinghe, R.E.*, +, *JPHOT Aug. 2020 3700611*

Microprocessor chips

ARM-Embedded Implementation of a Novel Color Image Encryption and Transmission System Based on Optical Chaos. *Liu, B.*, +, *JPHOT Oct. 2020 3900817*

Microreactors

Controllable Droplet Generators by Light-Heat Energy Conversion for Selective Particle Encapsulation. *Chen, Y.*, +, *JPHOT Oct. 2020 7103109*

Microsensors

Air-Mode Photonic Crystal Micro-Ring Resonator With Enhanced Quality Factor for Refractive Index Sensing. *Xu, Y.*, +, *JPHOT June 2020 6601111*

Etched Silicon-on-Insulator Microring Resonator for Ultrasound Measurement. *Yang, W.*, +, *JPHOT April 2020 6801409*

Integrated Photonic Platform for Robust Differential Refractive Index Sensor. *Moras, A.L.*, +, *JPHOT Oct. 2020 6802910*

Magnetic Fluid Infiltrated Microbottle Resonator Sensor With Axial Confined Mode. *Hou, F.*, +, *JPHOT Oct. 2020 6802709*

Ultrasensitive Sizing Sensor for a Single Nanoparticle in a Hybrid Nonlinear Microcavity. *Li, L.*, +, *JPHOT June 2020 4500708*

Microwave absorption

Comment on "Design and Characterization of an Ultrabroadband Metamaterial Microwave Absorber". *Rahman, S.U.*, +, *JPHOT April 2020 4600204*

Microwave antennas

Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J.*, +, *JPHOT June 2020 5501414*

Microwave filters

Frequency-Sweep-Range-Reconfigurable Complementary Linearly Chirped Microwave Waveform Pair Generation by Using a Fourier Domain Mode Locking Optoelectronic Oscillator Based on Stimulated Brillouin Scattering. *Zhang, L.*, +, *JPHOT June 2020 5501010*

Instantaneous Microwave Frequency Measurement Based on Two Cascaded Photonic Crystal Nanocavities. *Liu, L.*, +, *JPHOT Dec. 2020 4501809*

Simple and Flexible All-Optical Microwave Photonic Frequency Converter Based on Stimulated Brillouin Scattering Effect. *Wang, Y.*, +, *JPHOT Oct. 2020 7801108*

Microwave generation

Corrections to "Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving" [Dec 20 Art. no. 5502512]. *Zhang, T.*, +, *JPHOT Dec. 2020 9700401*

Frequency-Sweep-Range-Reconfigurable Complementary Linearly Chirped Microwave Waveform Pair Generation by Using a Fourier Domain Mode Locking Optoelectronic Oscillator Based on Stimulated Brillouin Scattering. *Zhang, L.*, +, *JPHOT June 2020 5501010*

Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving. *Zhang, T.*, +, *JPHOT Dec. 2020 5502512*

Photonics-Assisted Bandwidth-Doubling Dual-Chirp Microwave Signal Generation With Freely-Tunable Central Frequency. *Zhang, L.*, +, *JPHOT Aug. 2020 5501611*

Microwave measurement

A Microwave Frequency Measurement System Based on Si3N4 Ring-Assisted Mach-Zehnder Interferometer. *Zhang, H.*, +, *JPHOT Aug. 2020 7102213*

Instantaneous Microwave Frequency Measurement Based on Two Cascaded Photonic Crystal Nanocavities. *Liu, L.*, +, *JPHOT Dec. 2020 4501809*

Photonic Approach for Measuring AOA of Multiple Signals With Improved Measurement Accuracy. *Chen, H.*, +, *JPHOT June 2020 7201810*

Microwave metamaterials

Broadband High-Efficiency Electromagnetic Orbital Angular Momentum Beam Generation Based on a Dielectric Metasurface. *Lin, Z.*, +, *JPHOT June 2020 4600611*

Comment on "Design and Characterization of an Ultrabroadband Metamaterial Microwave Absorber". *Rahman, S.U.*, +, *JPHOT April 2020 4600204*

Dual-Bandwidth Linear Polarization Converter Based on Anisotropic Metasurface. *Fu, C.*, +, *JPHOT April 2020 4600511*

Microwave mixers

Broadband Image-Reject Mixing Based on a Polarization-Modulated Dual-Channel Photonic Microwave Phase Shifter. *Zhang, Y.*, +, *JPHOT April 2020 7800409*

Microwave oscillators

Frequency-Sweep-Range-Reconfigurable Complementary Linearly Chirped Microwave Waveform Pair Generation by Using a Fourier Domain Mode Locking Optoelectronic Oscillator Based on Stimulated Brillouin Scattering. *Zhang, L.*, +, *JPHOT June 2020 5501010*

Microwave phase shifters

Broadband Image-Reject Mixing Based on a Polarization-Modulated Dual-Channel Photonic Microwave Phase Shifter. *Zhang, Y., +, JPHOT April 2020 7800409*

Microwave photonics

A Microwave Frequency Measurement System Based on Si₃N₄ Ring-Assisted Mach-Zehnder Interferometer. *Zhang, H., +, JPHOT Aug. 2020 7102213*

A Monolithic Integrated Dual-Wavelength DFB Laser With Equivalent Inverse-Gaussian Apodized Grating. *Yuan, B., +, JPHOT Dec. 2020 3030669*

A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation. *Zhang, H., +, JPHOT Feb. 2020 5500208*

A Photonic Approach for Doppler Frequency Shift Measurement With Dispersion Medium. *Yi, C., +, JPHOT Oct. 2020 7102708*

All-Dielectric Metasurface-Based Quad-Beam Splitter in the Terahertz Regime. *Lv, B., +, JPHOT Oct. 2020 4601410*

An Optical Pulse Shaping Scheme for Simultaneous Photonic Filtering and Digitizing Systems. *Sun, Y., +, JPHOT Feb. 2020 5500509*

Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. *Li, K., +, JPHOT Oct. 2020 1503811*

Broadband Image-Reject Mixing Based on a Polarization-Modulated Dual-Channel Photonic Microwave Phase Shifter. *Zhang, Y., +, JPHOT April 2020 7800409*

Broadband Microwave Spectrum Sensing Based on Photonic RF Channelization and Compressive Sampling. *Yang, B., +, JPHOT Feb. 2020 5500109*

Coherent Perfect Absorber Based on Antisymmetric Metasurface With Gain Material. *Chen, M., +, JPHOT June 2020 4500609*

Corrections to “Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving” [Dec 20 Art. no. 5502512]. *Zhang, T., +, JPHOT Dec. 2020 9700401*

Dual-Channel Phase-Tunable Down Converter With LO Frequency Doubling. *Wang, Y., +, JPHOT Aug. 2020 5501710*

Efficient Optical Spatial First-Order Differentiator Based on Graphene-Based Metalines and Evolutionary Algorithms. *Zhang, T., +, JPHOT April 2020 4800210*

Entanglement of Microwave and Optical Fields Using Electrical Capacitor Loaded With Plasmonic Graphene Waveguide. *Qasymeh, M., +, JPHOT April 2020 7500212*

Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K., +, JPHOT Feb. 2020 1500409*

Frequency-Sweep-Range-Reconfigurable Complementary Linearly Chirped Microwave Waveform Pair Generation by Using a Fourier Domain Mode Locking Optoelectronic Oscillator Based on Stimulated Brillouin Scattering. *Zhang, L., +, JPHOT June 2020 5501010*

High Average Power Diode-Side-Pumped Intracavity Terahertz Parametric Source Based on Stimulated Polariton Scattering in RbTiOPO₄ Crystal. *Gao, F., +, JPHOT April 2020 1400109*

Highly Birefringent, Low-Loss, and Near-Zero Flat Dispersion ENZ Based THz Photonic Crystal Fibers. *Hossain, M.S., +, JPHOT June 2020 7202109*

Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving. *Zhang, T., +, JPHOT Dec. 2020 5502512*

Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz. *Vallejo, L., +, JPHOT Feb. 2020 5500309*

Improving the Linearity of Silicon Ring Modulators by Manipulating the Photon Dynamics. *Zhang, Q., +, JPHOT April 2020 6600810*

Injection-Locked Quantum-Dash Laser in Far L-Band 192 Gbit/s DWDM Transmission. *Khan, M.Z.M., +, JPHOT Oct. 2020 1504211*

Integrated Optical Delay Line Based on a Loopback Arrayed Waveguide Grating for Radio-frequency Filtering. *Wang, X., +, JPHOT June 2020 6600911*

Method for Receiving Weak Microwave Photonics Signals Based on Electro-Optical Up-Conversion. *He, Q., +, JPHOT Aug. 2020 5501910*

Multi-Antenna GNSS-Over-Fiber Architecture for Extensive Remote Multi-Baseline Network. *Liu, P., +, JPHOT June 2020 5501210*

Optical Self-Interference Cancellation With Frequency Down-Conversion Based on Cascade Modulator. *Wang, J., +, JPHOT Dec. 2020 5502708*

Photonic Approach for Generation and Fast Switching of Binary Digitally Modulated RF Signals. *Feng, X., +, JPHOT Oct. 2020 5502208*

Photonic Approach for Measuring AOA of Multiple Signals With Improved Measurement Accuracy. *Chen, H., +, JPHOT June 2020 7201810*

Photonics-Assisted Bandwidth-Doubling Dual-Chirp Microwave Signal Generation With Freely-Tunable Central Frequency. *Zhang, L., +, JPHOT Aug. 2020 5501611*

Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D., +, JPHOT Dec. 2020 5502814*

Probing Composite Vibrational Fingerprints in the Terahertz Range With Graphene Split Ring Resonator. *Mao, X., +, JPHOT Oct. 2020 5900408*

Real-Time RF Multi-Dimensional Signal Switching Using Polarization-Dependent Optical Mixing. *Liu, Q., +, JPHOT April 2020 5500808*

Reconfigurable Photonic Generation of Binary Modulated Microwave Signals. *Ma, J., +, JPHOT Dec. 2020 5503010*

RF Interferometry Measurement of Beat Length in Polarization-Maintaining Fiber. *Peng, L., +, JPHOT April 2020 5500608*

Simple and Flexible All-Optical Microwave Photonic Frequency Converter Based on Stimulated Brillouin Scattering Effect. *Wang, Y., +, JPHOT Oct. 2020 7801108*

Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. *Wenclawiak, M., +, JPHOT Oct. 2020 5900608*

Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing. *Hu, M., +, JPHOT Aug. 2020 5900309*

Terahertz Reconfigurable Metasurface for Dynamic Non-Diffractive Orbital Angular Momentum Beams using Vanadium Dioxide. *Wang, L., +, JPHOT June 2020 4600712*

Terahertz-Wave Generation Based on Optical Frequency Comb and Single Mach-Zehnder Modulator. *Yu, J., +, JPHOT Feb. 2020 7900808*

Tunable Photonic Microwave Up-Converter Using Opto-Electronic Oscillator Based on Monolithic Integrated Three-Section Laser. *Meng, X., +, JPHOT Dec. 2020 5502909*

Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V., +, JPHOT Oct. 2020 4800913*

Wideband and Ambiguous-Free RF Channelizer Assisted Jointly by Spacing and Profile of Optical Frequency Comb. *Lu, X., +, JPHOT June 2020 5500911*

Microwave theory and techniques

Reconfigurable Photonic Generation of Binary Modulated Microwave Signals. *Ma, J., +, JPHOT Dec. 2020 5503010*

Millimeter wave antennas

Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J., +, JPHOT June 2020 5501414*

Millimeter wave communication

A Simplified Radio-Over-Fiber System for Over 100-km Long-Reach n-QAM Transmission. *Shiu, R., +, JPHOT June 2020 7902908*

Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz. *Vallejo, L., +, JPHOT Feb. 2020 5500309*

Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D., +, JPHOT Dec. 2020 5502814*

Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J., +, JPHOT June 2020 5501414*

Millimeter wave generation

D-band Millimeter Wave Generation and Transmission Through Radio-Over-Fiber System. *Li, J.L., +, JPHOT April 2020 5500708*

Filterless Radio-Over-Fiber System to Generate 40 and 80 GHz Millimeter-Wave. *Wu, Z., +, JPHOT Dec. 2020 5502313*

Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz. *Vallejo, L., +, JPHOT Feb. 2020 5500309*

MIM devices

A Multipurpose and Highly-Compact Plasmonic Filter Based on Metal-Insulator-Metal Waveguides. *Ebadi, S.M., +, JPHOT June 2020 4800309*

Refractive Index Nanosensor With Simple Structure Based on Fano Resonance. *Guo, J., +, JPHOT Aug. 2020 4800710*

MIM structures

Tunable and Reconfigurable Dual-Band Chiral Metamirror. *Fan, J., +, JPHOT Oct. 2020 4601108*

MIMO communication

Constant Weight Space-Time Codes for Dimmable MIMO-VLC Systems. *Guo, J., +, JPHOT Dec. 2020 7906815*

Dynamic Physical-Layer Secured Link in a Mobile MIMO VLC System. *Younus, O.I., +, JPHOT June 2020 7902814*

Memory-Based Codes for Uniform Illumination in MIMO VLC. *Uday, T., +, JPHOT April 2020 7902115*

Spatial Multiplexing MIMO Visible Light Communications With Densely Distributed LEDs and PDs. *Zheng, D., +, JPHOT Oct. 2020 7905807*

Minimization

A Transceiver Design Based on an Autoencoder Network for Multi-Color VLC Systems. *Zhang, D., +, JPHOT June 2020 7902716*

Mirrors

A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M., +, JPHOT Dec. 2020 7906212*

An Image-Based Alignment Errors Correction Method for Segmented Fresnel Primary Mirror. *Zhu, L., +, JPHOT April 2020 6900614*

Freeform Surface Graded Optimization of Deformable Mirrors in Integrated Zoom and Image Stabilization System Through Vectorial Ray Tracing and Image Point Freezing Method. *Ning, Y., +, JPHOT Feb. 2020 6900316*

Nanowire Grid Reflecting Polarizers for Ultraviolet Applications. *Zhao, Z., +, JPHOT Dec. 2020 4502011*

Resonant Excitation Analysis on Asymmetrical Lateral Leakage of Light in Finite Zero-Contrast Grating Mirror. *Sang, T., +, JPHOT April 2020 4500111*

Tip/tilt Alignment for a Fizeau Interferometer via Defocus-Based Sub-Spot Separation. *Lv, W., +, JPHOT Dec. 2020 3901113*

Tunable and Reconfigurable Dual-Band Chiral Metamirror. *Fan, J., +, JPHOT Oct. 2020 4601108*

MISO communication

Capacity Maximization Using Nash Bargaining in Indoor Optical Multiuser Interference-Limited Poisson Channel. *Arya, S., +, JPHOT Dec. 2020 7906712*

Enhancing Secrecy Capacity in FSO Links via MISO Systems Through Turbulence-Induced Fading Channels With Misalignment Errors. *Boluda-Ruiz, R., +, JPHOT Aug. 2020 7903313*

Mobile radio

Rate Analysis of Intensity Modulated Broadcast Optical Mobile Communication System With User Mobility. *Gao, J., +, JPHOT Oct. 2020 7905312*

Mobile robots

High-Accuracy Robot Indoor Localization Scheme Based on Robot Operating System Using Visible Light Positioning. *Guan, W., +, JPHOT April 2020 7901716*

Mobility management (mobile radio)

Optimizing Handover Parameters by Q-Learning for Heterogeneous Radio-Optical Networks. *Shao, S., +, JPHOT Feb. 2020 7900615*

MOCVD

On the Impact of Electron Leakage on the Efficiency Droop for AlGaIn Based Deep Ultraviolet Light Emitting Diodes. *Chu, C., +, JPHOT June 2020 1600207*

Mode matching

Efficient and Tunable 1.6- μm MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO₄/YVO₄ Raman Laser. *Zhao, L., +, JPHOT Feb. 2020 1500107*

Mode-division multiplexing

Mode Division Multiplexing Based on Supermodes in Densely Packed Uniform Waveguide Array (DPUWA). *Chen, K., +, JPHOT April 2020 7901810*

The Simulation of Vortex Modes in Twisted Few-Mode Fiber With Inverse-Parabolic Index Profile. *Zhang, Z., +, JPHOT June 2020 7101908*

Modulation coding

Temporal Ghost Imaging by Means of Fourier Spectrum Acquisition. *Huang, H., +, JPHOT Oct. 2020 6803012*

Modulators

Improving the Linearity of Silicon Ring Modulators by Manipulating the Photon Dynamics. *Zhang, Q., +, JPHOT April 2020 6600810*

Moisture

Stacked Encapsulation Structure for Discretely Distributed Quantum Dot Array. *Cai, J., +, JPHOT April 2020 7000310*

Molecular biophysics

Corrections to “Excitation of Mitochondria-Endoplasmic Reticulum Ca²⁺ Coupling by Femtosecond-Laser Photostimulation” [Aug 20 Art. no. 3700308]. *Shi, F., +, JPHOT Oct. 2020 9700201*

Excitation of mitochondria-Endoplasmic reticulum Ca²⁺ coupling by femtosecond-Laser photostimulation. *Shi, F., +, JPHOT Aug. 2020 3700308*

High Sensitivity Terahertz Biosensor Based on Goos-Hänchen Effect in Graphene. *Liu, J., +, JPHOT April 2020 6801206*

Monolayers

Tunable Anisotropic Perfect Enhancement Absorption in Black Phosphorus-Based Metasurfaces. *Tang, B., +, JPHOT June 2020 4500209*

Monte Carlo methods

3D Simple Monte Carlo Statistical Model for GaAs Nanowire Single Photon Avalanche Diode. *Xie, S., +, JPHOT Aug. 2020 6802008*

Angular Color Uniformity Enhancement for Color-Mixed LEDs by Introducing a Diffusing Coating Layer. *Zhu, X., +, JPHOT Aug. 2020 8200712*

Effects of Grain Morphology on Nonlinear Conversion Efficiency of Random Quasi-Phase Matching in Polycrystalline Materials. *Liu, K., +, JPHOT Dec. 2020 2200910*

Enhancing Secrecy Capacity in FSO Links via MISO Systems Through Turbulence-Induced Fading Channels With Misalignment Errors. *Boluda-Ruiz, R., +, JPHOT Aug. 2020 7903313*

Fluence as a Function of Weight: A Photobiomodulation Therapy (PBMT) Spinal Cord Injury (SCI) Rat Model—A Computational Study. *Shuaib, A., +, JPHOT Dec. 2020 3700808*

Impulse Response Modeling of Underwater Optical Scattering Channels for Wireless Communication. *Boluda-Ruiz, R., +, JPHOT Aug. 2020 7904414*

Performance Analysis of Dual-Hop RF-UWOC Systems. *Lei, H., +, JPHOT April 2020 7901915*

Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. *Zhang, J., +, JPHOT April 2020 7902011*

Systematic Analysis for fNIRS Measurement Combining Sensitivity and SNR Based on the Colin27 Brain Template. *Wang, Y., +, JPHOT Aug. 2020 3700413*

The Link Attenuation Model Based on Monte Carlo Simulation for Laser Transmission in Fog Channel. *Hu, S., +, JPHOT Aug. 2020 6100910*

Motion control

X-Ray Layered Refocusing Imaging Based on Linear Scanning. *Liu, B., +, JPHOT June 2020 3400112*

Multi-access systems

Demonstration of Non-Hermitian Symmetry (NHS) IFFT/FFT Size Efficient OFDM Non-Orthogonal Multiple Access (NOMA) for Visible Light Communication. *Adnan, A., +, JPHOT June 2020 7201405*

Multipath channels

Optical Multipath RF Self-Interference Cancellation Based on Phase Modulation for Full-Duplex Communication. *Su, X., +, JPHOT Aug. 2020 7102114*

Performance Limits for Fingerprinting-Based Indoor Optical Communication Positioning Systems Exploiting Multipath Reflections. *Hosseiniyanfar, H., +, JPHOT Aug. 2020 7903416*

Multiplexing

Improve The Capacity Of Data Transmission In Orbital Angular Momentum Multiplexing By Adjusting Link Structure. *Zhao, L., +, JPHOT June 2020 5501111*

Orthogonal Time-Frequency Multiplexing With 2D Hermitian Symmetry for Optical-Wireless Communications. *Zhong, J., +, JPHOT April 2020 7901110*

Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D., +, JPHOT Dec. 2020 5502814*

Polarization Multiplexed Optical OFDM System With a Beat Interference Cancellation Receiver. *Ma, J., +, JPHOT Dec. 2020 7202710*

Quadrature Multiplexed Structured Illumination Imaging. *Hu, C., +, JPHOT April 2020 6900708*

Spatial Multiplexing MIMO Visible Light Communications With Densely Distributed LEDs and PDs. *Zheng, D., +, JPHOT Oct. 2020 7905807*

Multiplexing equipment

Full-Duplex Self-Recovery Optical Fibre Transport System Based on a Passive Single-Line Bidirectional Optical Add/Drop Multiplexer. *Li, C., +, JPHOT Oct. 2020 7202310*

Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μm Wavelength Band. *Liu, Y., +, JPHOT Aug. 2020 4900308*

Transmission Distance Extension of Directly Modulated Tunable V-cavity Laser Using AWG Wavelength Detuning. *Zhuang, Y., +, JPHOT June 2020 7201707*

Multiwave mixing

Experimental Investigations on TMI and IM-FWM in Distributed Side-Pumped Fiber Amplifier. *Chen, H., +, JPHOT June 2020 1502413*

Free-Space Communication Turbulence Compensation by Optical Phase Conjugation. *Chen, J., +, JPHOT Oct. 2020 7905611*

Highly Sensitive FBG Strain Sensor With Enhanced Measurement Range Based On Higher Order FWM. *Ghosh, C., +, JPHOT Feb. 2020 6800407*

Real-Time RF Multi-Dimensional Signal Switching Using Polarization-Dependent Optical Mixing. *Liu, Q., +, JPHOT April 2020 5500808*

Stability Analysis and Transient Attraction Dynamics of Flat-Top Solitons via Modulated Driving Fields in Normal Dispersion Microcavity. *Jin, X., +, JPHOT Oct. 2020 1503915*

N

Nakagami channels

Performance Analysis of Dual-Hop RF-UWOC Systems. *Lei, H., +, JPHOT April 2020 7901915*

Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. *Zhang, J., +, JPHOT April 2020 7902011*

Nanofabrication

A Performance Study of Dielectric Metalens with Process-Induced Defects. *Zhou, Y., +, JPHOT June 2020 4500414*

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K., +, JPHOT Oct. 2020 2200611*

Nanoparticles

Lead Sulfide Saturable Absorber Based Passively Mode-Locked Tm-Doped Fiber Laser. *Liu, F., +, JPHOT April 2020 1500910*

Optical Trapping and Separation of Metal Nanoparticles by Cylindrical Metalenses With Phase Gradients. *Shen, Z., +, JPHOT Aug. 2020 4600810*

The Particle Induced Mode Splitting and Exceptional Points in Whispering-Gallery Mode Microcavity. *Xiao-Xue, J., +, JPHOT Dec. 2020 6803414*

Ultrasensitive Sizing Sensor for a Single Nanoparticle in a Hybrid Nonlinear Microcavity. *Li, L., +, JPHOT June 2020 4500708*

Nanophotonics

A Multipurpose and Highly-Compact Plasmonic Filter Based on Metal-Insulator-Metal Waveguides. *Ebadi, S.M., +, JPHOT June 2020 4800309*

A Performance Study of Dielectric Metalens with Process-Induced Defects. *Zhou, Y., +, JPHOT June 2020 4500414*

All-Silicon Energy-Efficient Optical Diode Using Opto-Mechanical Microring Resonators. *Xu, L., +, JPHOT June 2020 4501009*

Analysis of Tapered Nanopillars for Reflective Metalens: The Role of Higher-Order Modes. *Lin, R., +, JPHOT Aug. 2020 4600907*

Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L., +, JPHOT Oct. 2020 6601906*

Formation and Evolution of Soliton in Two-Mode Fiber Laser. *Zheng, Y., +, JPHOT Aug. 2020 3200408*

Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule. *Zhang, W., +, JPHOT Feb. 2020 2200108*

Irrational Nanobricks Based High-Efficiency Polarization-Independence Metasurfaces. *Wang, W., +, JPHOT Aug. 2020 4501108*

Lead Sulfide Saturable Absorber Based Passively Mode-Locked Tm-Doped Fiber Laser. *Liu, F., +, JPHOT April 2020 1500910*

Nanoscale Noncoplanar Beam Splitters With Tunable Split Ratio. *Tian, S., +, JPHOT April 2020 4600309*

Optical Trapping and Separation of Metal Nanoparticles by Cylindrical Metalenses With Phase Gradients. *Shen, Z., +, JPHOT Aug. 2020 4600810*

Phase-Matched Mid-Infrared Difference Frequency Generation Using a Nanostructured Gallium Arsenide Metamaterial With Nanoholes. *Otman, N.A., +, JPHOT June 2020 5900110*

Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays. *Wang, Z., +, JPHOT June 2020 4800410*

Polarization Independent Unidirectional Scattering With Turnstile Nanoantennas. *Rocco, D., +, JPHOT Dec. 2020 4501908*

Refractive Index Nanosensor With Simple Structure Based on Fano Resonance. *Guo, J., +, JPHOT Aug. 2020 4800710*

Sixteen-Pixel NbN Nanowire Single Photon Detector Coupled With 300- μm Fiber. *Chen, Q., +, JPHOT Feb. 2020 6800112*

The Impact of Resonance on the Light Extraction Efficiency of Single Nanowire Ultraviolet Light Emitting Diodes. *Zhang, Z., +, JPHOT Aug. 2020 8200610*

Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V., +, JPHOT Oct. 2020 4800913*

Ultra-Low Index-Contrast Polymeric Photonic Crystal Nanobeam Electro-Optic Modulator. *Li, X., +, JPHOT June 2020 4900208*

Ultrasensitive Sizing Sensor for a Single Nanoparticle in a Hybrid Nonlinear Microcavity. *Li, L., +, JPHOT June 2020 4500708*

Vertical Second Harmonic Generation in Asymmetric Dielectric Nanoantennas. *Rocco, D., +, JPHOT June 2020 4500507*

Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P., +, JPHOT Dec. 2020 6602409*

Nanoribbons

Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V., +, JPHOT Oct. 2020 4800913*

Nanosensors

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K., +, JPHOT Oct. 2020 2200611*

Refractive Index Nanosensor With Simple Structure Based on Fano Resonance. *Guo, J., +, JPHOT Aug. 2020 4800710*

Ultrasensitive Sizing Sensor for a Single Nanoparticle in a Hybrid Nonlinear Microcavity. *Li, L., +, JPHOT June 2020 4500708*

Nanostructured materials

Analysis of Tapered Nanopillars for Reflective Metalens: The Role of Higher-Order Modes. *Lin, R., +, JPHOT Aug. 2020 4600907*

Phase-Matched Mid-Infrared Difference Frequency Generation Using a Nanostructured Gallium Arsenide Metamaterial With Nanoholes. *Otman, N.A., +, JPHOT June 2020 5900110*

Sidewall Profile Dependent Nanostructured Ultrathin Solar Cells With Enhanced Light Trapping Capabilities. *Sun, T., +, JPHOT Feb. 2020 8400112*

Vertical Second Harmonic Generation in Asymmetric Dielectric Nanoantennas. *Rocco, D., +, JPHOT June 2020 4500507*

Nanowires

3D Simple Monte Carlo Statistical Model for GaAs Nanowire Single Photon Avalanche Diode. *Xie, S., +, JPHOT Aug. 2020 6802008*

Characterize the Speed of a Photon-Number-Resolving Superconducting Nanowire Detector. *Tao, X., +, JPHOT Aug. 2020 4501308*

Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L., +, JPHOT Oct. 2020 6601906*

Nanowire Grid Reflecting Polarizers for Ultraviolet Applications. *Zhao, Z., +, JPHOT Dec. 2020 4502011*

Sixteen-Pixel NbN Nanowire Single Photon Detector Coupled With 300- μm Fiber. *Chen, Q., +, JPHOT Feb. 2020 6800112*

The Impact of Resonance on the Light Extraction Efficiency of Single Nanowire Ultraviolet Light Emitting Diodes. *Zhang, Z., +, JPHOT Aug. 2020 8200610*

Nash equilibrium

Capacity Maximization Using Nash Bargaining in Indoor Optical Multiuser Interference-Limited Poisson Channel. *Arya, S., +, JPHOT Dec. 2020 7906712*

Nearest neighbor methods

Performance Limits for Fingerprinting-Based Indoor Optical Communication Positioning Systems Exploiting Multipath Reflections. *Hosseinianfar, H., +, JPHOT Aug. 2020 7903416*

Neodymium

13.7-W 588-nm Yellow Laser Generation by Frequency Doubling of 885-nm Side-Pumped Nd:YAG-YVO₄ Intracavity Raman Laser. *Sun, B., +, JPHOT April 2020 1501607*

Generation of 1.8-W Average Power From a Diode-Pumped Femtosecond Rotary Nd:Glass Disk Laser. *Gong, L., +, JPHOT Feb. 2020 1500306*

Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber. *Li, G., +, JPHOT April 2020 1501009*

Watt-Level Continuous-Wave Mode-Locked Nd:YVO₄ Laser With ReSe₂ Saturable Absorber. *Xue, Y., +, JPHOT Oct. 2020 1503710*

Neural networks

ANN-Assisted Real-Time Blind Signal Detection Over Time-Varying Doubly-Stochastic Poisson Channel for Indoor Optical Wireless Communications. *Arya, S., +, JPHOT Oct. 2020 7904918*

Applications of Neural Networks for Spectrum Prediction and Inverse Design in the Terahertz Band. *Li, J., +, JPHOT Oct. 2020 5900509*

Computational Ghost Imaging in Scattering Media Using Simulation-Based Deep Learning. *Gao, Z., +, JPHOT Oct. 2020 6803115*

High-Throughput Deep Learning Microscopy Using Multi-Angle Super-Resolution. *Zhang, J., +, JPHOT April 2020 6900914*

Machine-Learning Assisted Prediction of Spectral Power Distribution for Full-Spectrum White Light-Emitting Diode. *Fan, J., +, JPHOT Feb. 2020 8200218*

Misalignment Calculation on Off-Axis Telescope System via Fully Connected Neural Network. *Liu, Z., +, JPHOT Aug. 2020 0600112*

Multiple Kinds of Pesticides Detection Based on Back-Propagation Neural Network Analysis of Fluorescence Spectra. *Bian, H., +, JPHOT April 2020 6801009*

Neural Successive Cancellation Polar Decoder With Tanh-Based Modified LLR Over FSO Turbulence Channel. *Fang, J., +, JPHOT Dec. 2020 7906110*

Nonlinear Resilient Learning Method Based on Joint Time-Frequency Image Analysis in Underwater Visible Light Communication. *Chen, H., +, JPHOT April 2020 7901610*

Research on 2F Optical Correlator Based on Neural Network Filter for Recognizing Large-Angle Rotation Distortion Target. *Yang, T., +, JPHOT April 2020 7800310*

Neurophysiology

Fluence as a Function of Weight: A Photobiomodulation Therapy (PBMT) Spinal Cord Injury (SCI) Rat Model—A Computational Study. *Shuaib, A., +, JPHOT Dec. 2020 3700808*

Systematic Analysis for fNIRS Measurement Combining Sensitivity and SNR Based on the Colin27 Brain Template. *Wang, Y., +, JPHOT Aug. 2020 3700413*

Nickel compounds

450 nm Gallium Nitride Alternating Current Light-Emitting Diode. *Hartensveld, M., +, JPHOT Dec. 2020 8200906*

Niobium compounds

Sixteen-Pixel NbN Nanowire Single Photon Detector Coupled With 300- μm Fiber. *Chen, Q., +, JPHOT Feb. 2020 6800112*

Noise

Systematic Analysis for fNIRS Measurement Combining Sensitivity and SNR Based on the Colin27 Brain Template. *Wang, Y., +, JPHOT Aug. 2020 3700413*

Nonlinear control systems

A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M., +, JPHOT Dec. 2020 7906212*

Nonlinear distortion

Dispersion and Nonlinearity Distortion Compensation of the QPSK/16QAM Signals Using Optical Phase Conjugation in Nonlinear SOAs. *Sobhanan, A., +, JPHOT Feb. 2020 7800107*

Nonlinear Resilient Learning Method Based on Joint Time-Frequency Image Analysis in Underwater Visible Light Communication. *Chen, H., +, JPHOT April 2020 7901610*

Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J., +, JPHOT June 2020 5501414*

Nonlinear dynamical systems

Nonlinear Dynamics Induced by Optical Injection in Optical Frequency Combs Generated by Gain-Switching of Laser Diodes. *Quirce, A., +, JPHOT Aug. 2020 1503314*

Nonlinear equations

Energy-Stable Time-Domain Finite Element Methods for the 3D Nonlinear Maxwell's Equations. *Anees, A., +, JPHOT April 2020 6500415*

Establishment and Solution for a Mathematical Model of Multiple Diffuse Reflection. *Zhu, Z., +, JPHOT Aug. 2020 6500917*

Nonlinear optical susceptibility

Self-Defocusing of Light in Ethanol Around 1550 nm. *Yi, J., +, JPHOT Feb. 2020 6100408*

Nonlinear optics

Enhanced Nonlinearity and Engineered Anomalous Dispersion in TeO₂-coated Si₃N₄ Waveguides. *Mbonde, H.M., +, JPHOT April 2020 2200210*

Multi-Wavelength SOA Fiber Laser With Ultra-Narrow Wavelength Spacing Based on NPR Effect. *Zhou, X., +, JPHOT Oct. 2020 7202408*

On-Chip Low-Power Gray Code Generation Based on Opto-Mechanical Microring Resonators. *Liu, L., +, JPHOT June 2020 4500312*

Real-Time RF Multi-Dimensional Signal Switching Using Polarization-Dependent Optical Mixing. *Liu, Q., +, JPHOT April 2020 5500808*

Spatial-Dependent Hamiltonian Formulation of Cross-Mode Modulation. *Yang, H., +, JPHOT Feb. 2020 6100208*

Tunable Photonic Microwave Up-Converter Using Opto-Electronic Oscillator Based on Monolithic Integrated Three-Section Laser. *Meng, X., +, JPHOT Dec. 2020 5502909*

Weak-Seed Induced Enhancement of Stimulated Raman Scattering in Distributed Side-Pumped Yb-Doped Fiber Amplifiers. *Chen, H., +, JPHOT Dec. 2020 7103412*

Nucleation

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K., +, JPHOT Oct. 2020 2200611*

Numerical analysis

A Raman-Pumped Dispersion and Nonlinearity Compensating Fiber For Fiber Optic Communications. *Bidaki, E., +, JPHOT Feb. 2020 7200117*

Dynamic Physical-Layer Secured Link in a Mobile MIMO VLC System. *Younis, O.I., +, JPHOT June 2020 7902814*

High Sensitivity Terahertz Biosensor Based on Goos-Hänchen Effect in Graphene. *Liu, J., +, JPHOT April 2020 6801206*

Memory-Based Codes for Uniform Illumination in MIMO VLC. *Uday, T., +, JPHOT April 2020 7902115*

Modeling and Optimization of Vortex Modes Propagation in Rectangular Dielectric Waveguides. *Lyubopytov, V.S., +, JPHOT Feb. 2020 6100117*

Spatial-Dependent Hamiltonian Formulation of Cross-Mode Modulation. *Yang, H., +, JPHOT Feb. 2020 6100208*

Study on the k-Connectivity of UV Communication Network Under the Node Distribution of RWP Mobility Model in the Arbitrary Polygon Area. *Li, C., +, JPHOT Aug. 2020 7903912*

Numerical simulation

- Phase Retrieval of On-Axis Digital Holography With Modified Coherent Diffraction Imaging. *Jiang, Z., +, JPHOT Dec. 2020 6901712*
- Propagation Properties of Gaussian Schell-Model Beam Array in the Jet Engine Exhaust Induced Turbulence. *Zhang, Y., +, JPHOT Dec. 2020 6501113*
- Theoretical and Numerical Analysis for Design of High Ratio Fiber Optic Taper Drawing Process. *Liu, J., +, JPHOT Dec. 2020 7103712*

O**Object detection**

- A Fast Image Segmentation Algorithm Based on Saliency Map and Neutrosophic Set Theory. *Song, S., +, JPHOT Oct. 2020 3901016*
- Low Illumination Video Image Enhancement. *Li, Z., +, JPHOT Aug. 2020 3900613*
- Non-Line-of-Sight Location With Gauss Filtering Algorithm Based on a Model of Photon Flight. *Ren, Y., +, JPHOT June 2020 7000615*

Object recognition

- Research on 2F Optical Correlator Based on Neural Network Filter for Recognizing Large-Angle Rotation Distortion Target. *Yang, T., +, JPHOT April 2020 7800310*

Object tracking

- Imaging and Tracking Through Scattering Medium With Low Bit Depth Speckle. *Xu, Q., +, JPHOT April 2020 6900807*

OFDM

- Polarization Multiplexed Optical OFDM System With a Beat Interference Cancellation Receiver. *Ma, J., +, JPHOT Dec. 2020 7202710*

OFDM modulation

- 56 Gbit/s OOK Signal in C-band Over 20 km Dispersion-Uncompensated Link Transmission With Receiver-Side EDC Algorithm. *Liang, W., +, JPHOT Oct. 2020 7905707*
- A Dimmable OFDM Scheme With Dynamic Subcarrier Activation for VLC. *Wang, C., +, JPHOT Feb. 2020 7900112*
- A Method to Reduce the Algorithm Complexity of the Single-Photodiode-per-Polarization Coherent Receiver. *Zhou, K., +, JPHOT Feb. 2020 7100210*
- A Novel Hybrid Secure Method Based on DNA Encoding Encryption and Spiral Scrambling in Chaotic OFDM-PON. *Xiao, Y., +, JPHOT June 2020 7201215*
- A Novel Phase Noise Suppression Scheme Utilizing Gaussian Wavelet Basis Expansion for PDM CO-OFDM Superchannel. *Chen, Y., +, JPHOT April 2020 7902309*
- A Simple Blind Sampling Frequency Offset Estimation Scheme for Short-Reach DD-OFDM Systems. *Wen, H., +, JPHOT Dec. 2020 7906010*
- A Tunable Energy Signal for Intensity Modulation and Direct Detection Systems: Theory, Simulations, and Experiments. *Vejanla, K., +, JPHOT Feb. 2020 7900412*
- Color-Shift-Keying Embedded Direct-Current Optical-Orthogonal-Frequency-Division-Multiplexing (CSK-DCO-OFDM) for Visible Light Communications (VLC). *Gunawan, W.H., +, JPHOT Oct. 2020 7905205*
- Demonstration of Non-Hermitian Symmetry (NHS) IFFT/FFT Size Efficient OFDM Non-Orthogonal Multiple Access (NOMA) for Visible Light Communication. *Adnan, A., +, JPHOT June 2020 7201405*
- Diffused-Line-of-Sight Communication for Mobile and Fixed Underwater Nodes. *Guo, Y., +, JPHOT Dec. 2020 7906413*
- Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays. *Arvanitakis, G.N., +, JPHOT April 2020 7901210*
- Hybrid OFDM-Digital Filter Multiple Access PONs Utilizing Spectrally Overlapped Digital Orthogonal Filtering. *Sankoh, A., +, JPHOT Oct. 2020 7905311*
- OFDM With Differential Index Modulation for Visible Light Communication. *Zheng, D., +, JPHOT Feb. 2020 7900708*
- Pre-Distorted Enhanced ADO-OFDM for Hybrid VLC Networks: A Mutual-Interference-Free Approach. *Huang, X., +, JPHOT April 2020 7901512*
- Should Analogue Pre-Equalisers be Avoided in VLC Systems?. *Li, X., +, JPHOT April 2020 7901014*

- SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs. *Zhang, X., +, JPHOT June 2020 7903113*
- Temporal Ghost Imaging by Means of Fourier Spectrum Acquisition. *Huang, H., +, JPHOT Oct. 2020 6803012*
- Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J., +, JPHOT June 2020 5501414*

Oils

- Controllable Droplet Generators by Light-Heat Energy Conversion for Selective Particle Encapsulation. *Chen, Y., +, JPHOT Oct. 2020 7103109*

Optical amplifiers

- Weak-Seed Induced Enhancement of Stimulated Raman Scattering in Distributed Side-Pumped Yb-Doped Fiber Amplifiers. *Chen, H., +, JPHOT Dec. 2020 7103412*

Optical arrays

- A Performance Study of Dielectric Metalens with Process-Induced Defects. *Zhou, Y., +, JPHOT June 2020 4500414*
- High-Speed Optical-Beam Scanning by an Optical Phased Array Using Electro-Optic Polymer Waveguides. *Hirano, Y., +, JPHOT April 2020 6600807*
- Highly Birefringent, Low-Loss, and Near-Zero Flat Dispersion ENZ Based THz Photonic Crystal Fibers. *Hossain, M.S., +, JPHOT June 2020 7202109*
- Investigation of Enhanced Transmission and Beaming Effect Through an InSb Subwavelength Grating With a Slit at the Terahertz Range. *Liu, X., +, JPHOT Feb. 2020 4800112*
- Large-Scale Integrated Multi-Lines Optical Phased Array Chip. *Zhang, L., +, JPHOT Aug. 2020 6601208*
- Mode Division Multiplexing Based on Supermodes in Densely Packed Uniform Waveguide Array (DPUWA). *Chen, K., +, JPHOT April 2020 7901810*
- Phase-Matched Mid-Infrared Difference Frequency Generation Using a Nanostructured Gallium Arsenide Metamaterial With Nanoholes. *Otman, N.A., +, JPHOT June 2020 5900110*
- Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays. *Wang, Z., +, JPHOT June 2020 4800410*
- Surface Micro-Reflector Array for Augmented Reality Display. *Yan, Z., +, JPHOT April 2020 7000209*
- Temperature Dependence of the Steering Angles of a Silicon Photonic Optical Phased Array. *Yepez, P.A.K., +, JPHOT April 2020 6800813*

Optical beam splitters

- All-Dielectric Metasurface-Based Quad-Beam Splitter in the Terahertz Regime. *Ly, B., +, JPHOT Oct. 2020 4601410*
- Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L., +, JPHOT Oct. 2020 6601906*
- Nanoscale Noncoplanar Beam Splitters With Tunable Split Ratio. *Tian, S., +, JPHOT April 2020 4600309*
- Polarization-Independent Two-Layer Grating With Five-Port Splitting Output Under Normal Incidence. *Gong, B., +, JPHOT April 2020 6500208*
- Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides. *Zhang, B., +, JPHOT April 2020 6600610*

Optical bistability

- Experimental Investigations on Polarization Switching and Bistability in a 1550 nm VCSEL Subject to Orthogonal Optical Injection With Time-Varying Injection Power. *Wang, Q., +, JPHOT Oct. 2020 1504108*

Optical chaos

- A Chaotic State in the Transition From Single Toward Multiple Pulse for Soliton Fiber Lasers. *Du, Y., +, JPHOT April 2020 3200112*
- ARM-Embedded Implementation of a Novel Color Image Encryption and Transmission System Based on Optical Chaos. *Liu, B., +, JPHOT Oct. 2020 3900817*
- Nonlinear Dynamics Induced by Optical Injection in Optical Frequency Combs Generated by Gain-Switching of Laser Diodes. *Quirce, A., +, JPHOT Aug. 2020 1503314*
- Prediction Algorithm of Key Design Parameters for Space Chaotic Optical Communication System. *Li, M., +, JPHOT Aug. 2020 7904308*
- Simultaneous Generation of Multi-Channel Broadband Chaotic Signals Based on Two Unidirectionally Coupled WRC-FPLDs. *Hu, C., +, JPHOT Oct. 2020 1504008*

Optical collimators

Investigation of Enhanced Transmission and Beaming Effect Through an InSb Subwavelength Grating With a Slit at the Terahertz Range. *Liu, X.*, +, *JPHOT Feb. 2020 4800112*

Optical communication

ANN-Assisted Real-Time Blind Signal Detection Over Time-Varying Doubly-Stochastic Poisson Channel for Indoor Optical Wireless Communications. *Arya, S.*, +, *JPHOT Oct. 2020 7904918*

Experimental Demonstration of Continuous Sensor Data Monitoring Using Neural Network-Based Optical Camera Communications. *Ahmed, M.F.*, +, *JPHOT Oct. 2020 7905011*

Grading Optimization for Dimensions-Reduced Orthogonal Volterra DPD. *Faig, H.*, +, *JPHOT Feb. 2020 7200310*

HyperSight: A Precise Decoding Algorithm for VLC With Mobile-Phone Camera. *Meng, Y.*, +, *JPHOT Aug. 2020 7904211*

Memory-Based Codes for Uniform Illumination in MIMO VLC. *Uday, T.*, +, *JPHOT April 2020 7902115*

Model-Aware End-to-End Learning for SISO Optical Wireless Communication Over Poisson Channel. *Si-Ma, L.*, +, *JPHOT Dec. 2020 7907115*

Optical communication equipment

A Raman-Pumped Dispersion and Nonlinearity Compensating Fiber For Fiber Optic Communications. *Bidaki, E.*, +, *JPHOT Feb. 2020 7200117*

A Simplified Radio-Over-Fiber System for Over 100-km Long-Reach n-QAM Transmission. *Shiu, R.*, +, *JPHOT June 2020 7902908*

Dispersion and Nonlinearity Distortion Compensation of the QPSK/16QAM Signals Using Optical Phase Conjugation in Nonlinear SOAs. *Sobhanan, A.*, +, *JPHOT Feb. 2020 7800107*

Enhancement of Tetrahedral Chromium (Cr⁴⁺) Concentration for High-Gain in Single-Mode Crystalline Core Fibers. *Liu, C.*, +, *JPHOT April 2020 7200811*

Injection-Locked Quantum-Dash Laser in Far L-Band 192 Gbit/s DWDM Transmission. *Khan, M.Z.M.*, +, *JPHOT Oct. 2020 1504211*

K-Band Centralized Cost-Effective All-Optical Sensing Signal Distribution Network. *Esmail, M.A.*, +, *JPHOT Dec. 2020 7202510*

Mode Division Multiplexing Based on Supermodes in Densely Packed Uniform Waveguide Array (DPUWA). *Chen, K.*, +, *JPHOT April 2020 7901810*

Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays. *Wang, Z.*, +, *JPHOT June 2020 4800410*

Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μ m Wavelength Band. *Liu, Y.*, +, *JPHOT Aug. 2020 4900308*

Toward Long-Distance Underwater Wireless Optical Communication Based on A High-Sensitivity Single Photon Avalanche Diode. *Chen, H.*, +, *JPHOT June 2020 7902510*

Transmission Distance Extension of Directly Modulated Tunable V-cavity Laser Using AWG Wavelength Detuning. *Zhuang, Y.*, +, *JPHOT June 2020 7201707*

Optical computing

Sequential Logic and Pipelining in Chip-Based Electronic-Photonic Digital Computing. *Ying, Z.*, +, *JPHOT Dec. 2020 7801311*

Optical conductivity

Entanglement of Microwave and Optical Fields Using Electrical Capacitor Loaded With Plasmonic Graphene Waveguide. *Qasymeh, M.*, +, *JPHOT April 2020 7500212*

Optical control

A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M.*, +, *JPHOT Dec. 2020 7906212*

Photonic Generation of Triangular-Shaped Waveform With Tunable Symmetry Factor Based on Two Single-Drive Mach-Zehnder Modulator. *Wang, C.*, +, *JPHOT Dec. 2020 5502411*

Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P.*, +, *JPHOT Dec. 2020 6602409*

Optical correlation

Formation and Evolution of Soliton in Two-Mode Fiber Laser. *Zheng, Y.*, +, *JPHOT Aug. 2020 3200408*

Research on 2F Optical Correlator Based on Neural Network Filter for Recognizing Large-Angle Rotation Distortion Target. *Yang, T.*, +, *JPHOT April 2020 7800310*

Temporal Ghost Imaging by Means of Fourier Spectrum Acquisition. *Huang, H.*, +, *JPHOT Oct. 2020 6803012*

Optical couplers

Inverse Design of a Taper by Scatter Search Metaheuristic. *Franca-Vieira, L.*, +, *JPHOT Aug. 2020 4501409*

Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P.*, +, *JPHOT Dec. 2020 6602409*

Optical crosstalk

A Hybrid Algorithm for Multi-Beam Steering of LCOS-Based Wavelength Selective Switch. *Gao, Y.*, +, *JPHOT June 2020 7903011*

Measurement of Principal Modes in Few-Mode Fibers by S² Method. *Di, Z.*, +, *JPHOT April 2020 7101308*

Mode Division Multiplexing Based on Supermodes in Densely Packed Uniform Waveguide Array (DPUWA). *Chen, K.*, +, *JPHOT April 2020 7901810*

Orbital Angular Momentum (OAM) Mode Mixing in a Bent Step Index Fiber in Perturbation Theory: Multiple Bends. *Bhandari, R.*, *JPHOT April 2020 7200510*

Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays. *Wang, Z.*, +, *JPHOT June 2020 4800410*

Research on Fabrication and Performance of Hollow-Core Anti-Resonant Fiber Coated With Copper Film. *Wu, M.*, +, *JPHOT June 2020 7101708*

Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides. *Zhang, B.*, +, *JPHOT April 2020 6600610*

The Design of CMOS-Compatible Plasmonic Waveguides for Intra-Chip Communication. *Liu, Y.*, +, *JPHOT Oct. 2020 4800810*

Optical delay lines

Design and Investigation of 10 Gb/s FSO Wiretap Channel Using OCDMA Time-Diversity Reception. *Ji, J.*, +, *JPHOT June 2020 7903212*

Frequency Quasi-Linear Swept Light Source Based on Multi-Frequency Time-Matched Spectrum Stitching. *Wen, L.*, +, *JPHOT Dec. 2020 1400208*

Integrated Optical Delay Line Based on a Loopback Arrayed Waveguide Grating for Radio-frequency Filtering. *Wang, X.*, +, *JPHOT June 2020 6600911*

Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P.*, +, *JPHOT Dec. 2020 6602409*

Optical design techniques

A Hybrid Algorithm for Multi-Beam Steering of LCOS-Based Wavelength Selective Switch. *Gao, Y.*, +, *JPHOT June 2020 7903011*

A Mid-Infrared Dual-Band Filter With Ultra-High Resolving Power. *He, X.*, +, *JPHOT Aug. 2020 2200410*

All-Dielectric Metasurface-Based Quad-Beam Splitter in the Terahertz Regime. *Ly, B.*, +, *JPHOT Oct. 2020 4601410*

All-Silicon Energy-Efficient Optical Diode Using Opto-Mechanical Microring Resonators. *Xu, L.*, +, *JPHOT June 2020 4501009*

Analysis of Tapered Nanopillars for Reflective Metalens: The Role of Higher-Order Modes. *Lin, R.*, +, *JPHOT Aug. 2020 4600907*

Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L.*, +, *JPHOT Oct. 2020 6601906*

Design and Analysis of Asymmetric Capsule-Shaped Metallic Cavities for Unidirectional Waveguide Coupling. *Zhang, B.*, +, *JPHOT Dec. 2020 2201008*

Dual-Mode GVD Tailoring in a Convex Waveguide. *Chen, W.*, +, *JPHOT Aug. 2020 6601506*

Efficient Optical Spatial First-Order Differentiator Based on Graphene-Based Metalines and Evolutionary Algorithms. *Zhang, T.*, +, *JPHOT April 2020 4800210*

Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits. *Yu, X.*, +, *JPHOT Oct. 2020 2200708*

Enhanced Nonlinearity and Engineered Anomalous Dispersion in TeO₂-coated Si₃N₄ Waveguides. *Mbonde, H.M.*, +, *JPHOT April 2020 2200210*

Establishment and Solution for a Mathematical Model of Multiple Diffuse Reflection. *Zhu, Z.*, +, *JPHOT Aug. 2020 6500917*

- Inverse Design of a Taper by Scatter Search Metaheuristic. *Franca-Vieira, L., +, JPHOT Aug. 2020 4501409*
- Investigation of Enhanced Transmission and Beaming Effect Through an InSb Subwavelength Grating With a Slit at the Terahertz Range. *Liu, X., +, JPHOT Feb. 2020 4800112*
- Irotational Nanobricks Based High-Efficiency Polarization-Independence Metasurfaces. *Wang, W., +, JPHOT Aug. 2020 4501108*
- Large-Scale Integrated Multi-Lines Optical Phased Array Chip. *Zhang, L., +, JPHOT Aug. 2020 6601208*
- Mode Division Multiplexing Based on Supermodes in Densely Packed Uniform Waveguide Array (DPUWA). *Chen, K., +, JPHOT April 2020 7901810*
- Optimized Multilayer Structures With Ultrabroadband Near-Perfect Absorption. *You, C., +, JPHOT June 2020 4500810*
- Polarization Coupling of X-Cut Thin Film Lithium Niobate Based Waveguides. *Wang, J., +, JPHOT June 2020 2200310*
- Polarization-Independent Two-Layer Grating With Five-Port Splitting Output Under Normal Incidence. *Gong, B., +, JPHOT April 2020 6500208*
- Quasiperiodic Dielectric Gratings for Multiband Fiber-To-Chip Couplers. *Picin, O.J., +, JPHOT Oct. 2020 7103010*
- Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength. *Li, J., +, JPHOT Aug. 2020 6601309*
- Refractive Index Nanosensor With Simple Structure Based on Fano Resonance. *Guo, J., +, JPHOT Aug. 2020 4800710*
- Sensitivity-Based Structural Optimal Design With Bi-Directional Beam Propagation Method for Photonic Devices in High-Index-Contrast Waveguides. *Iguchi, A., +, JPHOT Oct. 2020 6602111*
- Sixteen-Pixel NbN Nanowire Single Photon Detector Coupled With 300- μm Fiber. *Chen, Q., +, JPHOT Feb. 2020 6800112*
- Stable Excitation of Orbital Angular Momentum States in Air-Core Fiber Seeded by an Integrated Optical Vortex Beam Emitter. *Wang, J., +, JPHOT Aug. 2020 6601408*
- Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides. *Zhang, B., +, JPHOT April 2020 6600610*
- The Design of CMOS-Compatible Plasmonic Waveguides for Intra-Chip Communication. *Liu, Y., +, JPHOT Oct. 2020 4800810*
- Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μm Wavelength Band. *Liu, Y., +, JPHOT Aug. 2020 4900308*
- Tunable Electro- and All-Optical Switch Based on Epsilon-Near-Zero Metasurface. *Xie, Z.T., +, JPHOT Aug. 2020 4501510*
- Ultra-Broadband, Fabrication Tolerant Optical Coupler for Arbitrary Splitting Ratio Using Particle Swarm Optimization Algorithm. *Leng, L., +, JPHOT Oct. 2020 6602212*
- Ultra-Low Index-Contrast Polymeric Photonic Crystal Nanobeam Electro-Optic Modulator. *Li, X., +, JPHOT June 2020 4900208*
- Ultralow Loss and High Extinction Ratio TM-Pass Polarizer in Silicon Photonics. *Dhingra, N., +, JPHOT Dec. 2020 6602311*
- Optical device fabrication**
- Nanowire Grid Reflecting Polarizers for Ultraviolet Applications. *Zhao, Z., +, JPHOT Dec. 2020 4502011*
- Optical directional couplers**
- Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L., +, JPHOT Oct. 2020 6601906*
- Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits. *Yu, X., +, JPHOT Oct. 2020 2200708*
- Ultra-Broadband, Fabrication Tolerant Optical Coupler for Arbitrary Splitting Ratio Using Particle Swarm Optimization Algorithm. *Leng, L., +, JPHOT Oct. 2020 6602212*
- Ultralow Loss and High Extinction Ratio TM-Pass Polarizer in Silicon Photonics. *Dhingra, N., +, JPHOT Dec. 2020 6602311*
- Optical dispersion**
- A Dual-Frequency Faraday Laser. *Shi, T., +, JPHOT Aug. 2020 1503211*
- Dual-Mode GVD Tailoring in a Convex Waveguide. *Chen, W., +, JPHOT Aug. 2020 6601506*
- Enhanced Nonlinearity and Engineered Anomalous Dispersion in TeO₂-coated Si₃N₄ Waveguides. *Mbonde, H.M., +, JPHOT April 2020 2200210*
- Near-Infrared Supercontinuum and Ultrashort Pulses Generated Based on Phase-Mismatched Cascaded Frequency Conversion in DSTMS Crystal. *Qian, J., +, JPHOT June 2020 3200306*
- Numerical Investigation of Parametric Frequency Dependence in the Modeling of Octave-Spanning Kerr Frequency Combs. *Zhao, Y., +, JPHOT April 2020 6600509*
- Polarization Coupling Based on Faraday Effect in Whispering-Gallery-Mode Resonator. *Nie, Y., +, JPHOT April 2020 5300107*
- Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D., +, JPHOT Dec. 2020 5502814*
- Quadratic Soliton Combs in Doubly Resonant Dispersive Optical Parametric Oscillators. *Sheng, A., +, JPHOT April 2020 6100607*
- Stability Analysis and Transient Attraction Dynamics of Flat-Top Solitons via Modulated Driving Fields in Normal Dispersion Microcavity. *Jin, X., +, JPHOT Oct. 2020 1503915*
- Optical distortion**
- Optical-Stark Induced Distortions in Vortex Momentum Distributions of p-Orbital Electrons of Neon Atoms. *He, Y., +, JPHOT Dec. 2020 6101209*
- Pre-Distorted Enhanced ADO-OFDM for Hybrid VLC Networks: A Mutual-Interference-Free Approach. *Huang, X., +, JPHOT April 2020 7901512*
- Optical engineering computing**
- A Robust Reference Optical Spectrum Based in-Band OSNR Monitoring Method Suitable for Flexible Optical Networks. *Zhong, Y., +, JPHOT June 2020 7201310*
- Applications of Neural Networks for Spectrum Prediction and Inverse Design in the Terahertz Band. *Li, J., +, JPHOT Oct. 2020 5900509*
- CNN-Based Phase Matching for the OAM Mode Selection in Turbulence Heterodyne Coherent Mitigation Links. *Yang, C., +, JPHOT Dec. 2020 7905913*
- Misalignment Calculation on Off-Axis Telescope System via Fully Connected Neural Network. *Liu, Z., +, JPHOT Aug. 2020 0600112*
- Optical fabrication**
- A Performance Study of Dielectric Metalens with Process-Induced Defects. *Zhou, Y., +, JPHOT June 2020 4500414*
- Analysis of Tapered Nanopillars for Reflective Metalens: The Role of Higher-Order Modes. *Lin, R., +, JPHOT Aug. 2020 4600907*
- Broadband Passive Photonic Diodes With the Saturable Absorption in Antimony Thin Film. *Zhang, J., +, JPHOT Feb. 2020 6100307*
- Dual-Mode GVD Tailoring in a Convex Waveguide. *Chen, W., +, JPHOT Aug. 2020 6601506*
- Effects of Lateral Optical Confinement In GaN VCSELs With Double Dielectric DBRs. *Xu, R., +, JPHOT April 2020 1501708*
- Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits. *Yu, X., +, JPHOT Oct. 2020 2200708*
- High Precision Fabrication Method of Fresnel Diffractive Lenses on Ultrathin Membrane for Imaging Application. *Liu, X., +, JPHOT Aug. 2020 2400310*
- High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*
- High-Speed Optical-Beam Scanning by an Optical Phased Array Using Electro-Optic Polymer Waveguides. *Hirano, Y., +, JPHOT April 2020 6600807*
- Integrated Photonic Platform for Robust Differential Refractive Index Sensor. *Moras, A.L., +, JPHOT Oct. 2020 6802910*
- Interleaved Subwavelength Gratings Strip Waveguide Based TM Pass Polarizer on SOI Platform. *Xu, Z., +, JPHOT April 2020 4900110*
- Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y., +, JPHOT April 2020 2400207*
- Polarization Coupling of X-Cut Thin Film Lithium Niobate Based Waveguides. *Wang, J., +, JPHOT June 2020 2200310*
- Polarization-Independent Two-Layer Grating With Five-Port Splitting Output Under Normal Incidence. *Gong, B., +, JPHOT April 2020 6500208*
- Tailored Transverse Mode Vertical-Cavity Surface-Emitting Laser: Hollow Laser Beam Emission through Circle Aperture. *Zhou, Y., +, JPHOT Aug. 2020 1503106*

Temperature Dependence of the Steering Angles of a Silicon Photonic Optical Phased Array. *Yepez, P.A.K., +, JPHOT April 2020 6800813*

Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μm Wavelength Band. *Liu, Y., +, JPHOT Aug. 2020 4900308*

Ultra-Broadband, Fabrication Tolerant Optical Coupler for Arbitrary Splitting Ratio Using Particle Swarm Optimization Algorithm. *Leng, L., +, JPHOT Oct. 2020 6602212*

Ultralow Loss and High Extinction Ratio TM-Pass Polarizer in Silicon Photonics. *Dhingra, N., +, JPHOT Dec. 2020 6602311*

Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P., +, JPHOT Dec. 2020 6602409*

Optical fiber amplifiers

2.5 kW Narrow Linewidth Linearly Polarized All-Fiber MOPA With Cascaded Phase-Modulation to Suppress SBS Induced Self-Pulsing. *Wang, Y., +, JPHOT June 2020 1502815*

A Robust Reference Optical Spectrum Based in-Band OSNR Monitoring Method Suitable for Flexible Optical Networks. *Zhong, Y., +, JPHOT June 2020 7201310*

An Erbium Fiber Laser With Single-Frequency Oscillation and Wavelength-Upconverted Output. *Yeh, C., +, JPHOT Oct. 2020 7102807*

Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. *Li, K., +, JPHOT Oct. 2020 1503811*

Cladding-Pumped Erbium-Ytterbium Co-Doped Fiber Amplifier With Dual-Wavelength Auxiliary Signal Injection of 1030 and 1040 nm. *Wei, S., +, JPHOT April 2020 1501509*

Enhancement of Tetrahedral Chromium (Cr^{4+}) Concentration for High-Gain in Single-Mode Crystalline Core Fibers. *Liu, C., +, JPHOT April 2020 7200811*

Environmentally Stable 1.56- μm Femtosecond Laser System With Discontinuous Selectable Repetition Rate. *Fu, H., +, JPHOT June 2020 1502507*

Experimental Investigations on TMI and IM-FWM in Distributed Side-Pumped Fiber Amplifier. *Chen, H., +, JPHOT June 2020 1502413*

Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K., +, JPHOT Feb. 2020 1500409*

Frequency Quasi-Linear Swept Light Source Based on Multi-Frequency Time-Matched Spectrum Stitching. *Wen, L., +, JPHOT Dec. 2020 1400208*

Generation of Flat-Top Q-Switched Envelope Dissipative Soliton Resonance Pulse in Passively Mode-Locked Fiber Laser. *Han, L., +, JPHOT April 2020 7101508*

High-Power Femtosecond Pulse Generation From an All-Fiber Er-Doped Chirped Pulse Amplification System. *Wei, R., +, JPHOT April 2020 3200208*

Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas. *Miglani, R., +, JPHOT Aug. 2020 7904621*

Spatial Beam Self-Cleaning in Tapered Yb-Doped GRIN Multimode Fiber With Decelerating Nonlinearity. *Niang, A., +, JPHOT April 2020 6500308*

Theoretical Analysis of Heat Distribution in Raman Fiber Lasers and Amplifiers Employing Pure Passive Fiber. *Chen, Y., +, JPHOT Dec. 2020 1504713*

Optical fiber cladding

Cladding-Pumped Erbium-Ytterbium Co-Doped Fiber Amplifier With Dual-Wavelength Auxiliary Signal Injection of 1030 and 1040 nm. *Wei, S., +, JPHOT April 2020 1501509*

Employing Higher Order Cladding Modes of Fiber Bragg Grating for Analysis of Refractive Index Change in Volume and at the Surface. *Bandyopadhyay, S., +, JPHOT Feb. 2020 7100313*

Environmentally Stable 1.56- μm Femtosecond Laser System With Discontinuous Selectable Repetition Rate. *Fu, H., +, JPHOT June 2020 1502507*

Highly Birefringent, Low-Loss, and Near-Zero Flat Dispersion ENZ Based THz Photonic Crystal Fibers. *Hossain, M.S., +, JPHOT June 2020 7202109*

Research on Fabrication and Performance of Hollow-Core Anti-Resonant Fiber Coated With Copper Film. *Wu, M., +, JPHOT June 2020 7101708*

Versatile Vibration Sensing Using a Tapered Photonic Crystal Fiber With a Featured Core. *Yu, H., +, JPHOT April 2020 6801310*

Optical fiber communication

56 Gbit/s OOK Signal in C-band Over 20 km Dispersion-Uncompensated Link Transmission With Receiver-Side EDC Algorithm. *Liang, W., +, JPHOT Oct. 2020 7905707*

A Raman-Pumped Dispersion and Nonlinearity Compensating Fiber For Fiber Optic Communications. *Bidaki, E., +, JPHOT Feb. 2020 7200117*

Automated Adaptation and Stabilization of a Tunable WDM Polarization-Independent Receiver on Active Silicon Photonic Platform. *Ma, M., +, JPHOT Aug. 2020 4900411*

Comparison of Geometrically Shaped and Probabilistically Shaped Bit-Loading DMT for Optical Interconnect System. *Ding, J., +, JPHOT April 2020 7201008*

Dispersion and Nonlinearity Distortion Compensation of the QPSK/16QAM Signals Using Optical Phase Conjugation in Nonlinear SOAs. *Sobhanan, A., +, JPHOT Feb. 2020 7800107*

Enhancement of Tetrahedral Chromium (Cr^{4+}) Concentration for High-Gain in Single-Mode Crystalline Core Fibers. *Liu, C., +, JPHOT April 2020 7200811*

Injection-Locked Quantum-Dash Laser in Far L-Band 192 Gbit/s DWDM Transmission. *Khan, M.Z.M., +, JPHOT Oct. 2020 1504211*

Low-Complexity Time-Domain Averaging-Based DAC Clock Tone Leakage Compensation for Short-Reach PAM4 Transmission. *Chen, M., +, JPHOT June 2020 7202014*

Nonlinearity Mitigation of Multi-Level Optical Transmission Using Spectrum-Split Digital Pre-Distortion. *Lim, G., +, JPHOT Feb. 2020 7200208*

Research on Fabrication and Performance of Hollow-Core Anti-Resonant Fiber Coated With Copper Film. *Wu, M., +, JPHOT June 2020 7101708*

The Simulation of Vortex Modes in Twisted Few-Mode Fiber With Inverse-Parabolic Index Profile. *Zhang, Z., +, JPHOT June 2020 7101908*

Theoretical Analyses of Different Nonlinear Compensation Methods Based on Perturbation Theories in the Unrepeated System With Raman Amplification. *Wang, Y., +, JPHOT Aug. 2020 7903611*

Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μm Wavelength Band. *Liu, Y., +, JPHOT Aug. 2020 4900308*

Optical fiber couplers

A Novel Repetition Rate Adjustable SBS-Based Q-Switched Fiber Laser. *Hou, S., +, JPHOT April 2020 1501408*

An Erbium Fiber Laser With Single-Frequency Oscillation and Wavelength-Upconverted Output. *Yeh, C., +, JPHOT Oct. 2020 7102807*

Compact and Broadband Edge Coupler Based on Multi-Stage Silicon Nitride Tapers. *Bhandari, B., +, JPHOT Dec. 2020 6602511*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*

High-Power Femtosecond Pulse Generation From an All-Fiber Er-Doped Chirped Pulse Amplification System. *Wei, R., +, JPHOT April 2020 3200208*

Quasiperiodic Dielectric Gratings for Multiband Fiber-To-Chip Couplers. *Picin, O.J., +, JPHOT Oct. 2020 7103010*

Sixteen-Pixel NbN Nanowire Single Photon Detector Coupled With 300- μm Fiber. *Chen, Q., +, JPHOT Feb. 2020 6800112*

Optical fiber devices

Compact and Broadband Edge Coupler Based on Multi-Stage Silicon Nitride Tapers. *Bhandari, B., +, JPHOT Dec. 2020 6602511*

Single-Pixel Imaging Based on Optical Fibers. *Tian, Y., +, JPHOT Dec. 2020 7103507*

Optical fiber dispersion

56 Gbit/s OOK Signal in C-band Over 20 km Dispersion-Uncompensated Link Transmission With Receiver-Side EDC Algorithm. *Liang, W., +, JPHOT Oct. 2020 7905707*

A Chaotic State in the Transition From Single Toward Multiple Pulse for Soliton Fiber Lasers. *Du, Y., +, JPHOT April 2020 3200112*

A Photonic Approach for Doppler Frequency Shift Measurement With Dispersion Medium. *Yi, C., +, JPHOT Oct. 2020 7102708*

A Raman-Pumped Dispersion and Nonlinearity Compensating Fiber For Fiber Optic Communications. *Bidaki, E., +, JPHOT Feb. 2020 7200117*

A Robust Reference Optical Spectrum Based in-Band OSNR Monitoring Method Suitable for Flexible Optical Networks. *Zhong, Y.*, +, *JPHOT June 2020 7201310*

Adaptive Blind Stokes-Space Based Equalizer for RSOP in SV-DD Systems With High Chromatic Dispersion Tolerance. *Jin, Y.*, +, *JPHOT April 2020 7200913*

Broadband Dispersion-Managed Dissipative Soliton and Structural Soliton Molecules in a Slight-Normal Dispersion Fiber Laser. *Wang, X.*, +, *JPHOT Dec. 2020 3200510*

Dispersion and Nonlinearity Distortion Compensation of the QPSK/16QAM Signals Using Optical Phase Conjugation in Nonlinear SOAs. *Sobhanan, A.*, +, *JPHOT Feb. 2020 7800107*

Environmentally Stable 1.56- μm Femtosecond Laser System With Discontinuous Selectable Repetition Rate. *Fu, H.*, +, *JPHOT June 2020 1502507*

High-Power Femtosecond Pulse Generation From an All-Fiber Er-Doped Chirped Pulse Amplification System. *Wei, R.*, +, *JPHOT April 2020 3200208*

Highly Birefringent, Low-Loss, and Near-Zero Flat Dispersion ENZ Based THz Photonic Crystal Fibers. *Hossain, M.S.*, +, *JPHOT June 2020 7202109*

Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving. *Zhang, T.*, +, *JPHOT Dec. 2020 5502512*

Measurement of Principal Modes in Few-Mode Fibers by S^2 Method. *Di, Z.*, +, *JPHOT April 2020 7101308*

Nonlinear Spectrum Compression of Negatively Chirped Picosecond Pulses in Dispersion-Shifted Telecom Fiber. *Krylov, A.*, +, *JPHOT April 2020 7100515*

Simulation for Generation of Several Types of Pulses in an Yb-Doped Mode-Locked Fiber Laser. *Cui, Y.*, +, *JPHOT Dec. 2020 1504413*

Tunable Multi-Wavelength Bright-Dark and Dark-Bright Pulse Pairs Fiber Lasers. *Xin, Y.*, +, *JPHOT Dec. 2020 7103209*

Ultraviolet-Extended Supercontinuum Generation in Zero-Dispersion Wavelength Decreasing Photonic Crystal Fibers. *Bi, W.*, +, *JPHOT Dec. 2020 3200608*

Vectorial Nature in Nonlinear Multimode Interference Based Ultrafast Fiber Lasers. *Xia, R.*, +, *JPHOT April 2020 1501310*

Optical fiber fabrication

A Low Loss Quantum-Dot-Doped Optical Fiber Temperature Sensor Based on Flexible Print Technology. *Zhang, G.*, +, *JPHOT June 2020 7101008*

All-Fiber High Power Supercontinuum Generation by Cascaded Photonic Crystal Fibers Ranging From 370 nm to 2400 nm. *Zhang, H.*, +, *JPHOT April 2020 7101608*

Effect of Laser Polarization on Fiber Bragg Grating Fabry-Perot Interferometer for Ultrasound Detection. *Zhu, Y.*, +, *JPHOT Aug. 2020 7102408*

Employing Higher Order Cladding Modes of Fiber Bragg Grating for Analysis of Refractive Index Change in Volume and at the Surface. *Bandyopadhyay, S.*, +, *JPHOT Feb. 2020 7100313*

Enhancement of Tetrahedral Chromium (Cr^{4+}) Concentration for High-Gain in Single-Mode Crystalline Core Fibers. *Liu, C.*, +, *JPHOT April 2020 7200811*

Quasiperiodic Dielectric Gratings for Multiband Fiber-To-Chip Couplers. *Picin, O.J.*, +, *JPHOT Oct. 2020 7103010*

Research on Fabrication and Performance of Hollow-Core Anti-Resonant Fiber Coated With Copper Film. *Wu, M.*, +, *JPHOT June 2020 7101708*

Stable Excitation of Orbital Angular Momentum States in Air-Core Fiber Seeded by an Integrated Optical Vortex Beam Emitter. *Wang, J.*, +, *JPHOT Aug. 2020 6601408*

Stimulated Brillouin Scattering by Dual Lasers Pumping in WGM Microcavities. *Chen, Z.*, +, *JPHOT Dec. 2020 6101108*

Weak One-Dimensional Field Confinement Silica Waveguides. *Zhao, C.*, +, *JPHOT Aug. 2020 2200511*

Optical fiber filters

A Demodulation Method of Spatial Domain for Low-Coherence Interferometry With High Accuracy and Adaptability. *Wang, C.*, +, *JPHOT April 2020 6801111*

An Erbium Fiber Laser With Single-Frequency Oscillation and Wavelength-Upconverted Output. *Yeh, C.*, +, *JPHOT Oct. 2020 7102807*

Optical Property of Polarization-Maintaining Fiber Taper for Tunable Multi-Wavelength Fiber Laser Generation. *Yuan, F.*, +, *JPHOT Feb. 2020 7100109*

Switchable Multi-Wavelength Thulium-Doped Fiber Laser Using Four-Mode Fiber Based Sagnac Loop Filter. *Guo, Y.*, +, *JPHOT April 2020 7100610*

The Correction of Nonlinearity in Wavelength Scanning Based on Long-OPD Interferometer for Fiber Bragg Grating Demodulation in Environment With Variable Temperature. *Zhang, X.*, +, *JPHOT April 2020 7100410*

Tunable 2 μm Fiber Laser Utilizing a Modified Sagnac Filter Incorporating Cascaded Polarization Maintaining Fibers. *Chen, E.*, +, *JPHOT Feb. 2020 1500507*

Optical fiber losses

A Low Loss Quantum-Dot-Doped Optical Fiber Temperature Sensor Based on Flexible Print Technology. *Zhang, G.*, +, *JPHOT June 2020 7101008*

An Erbium Fiber Laser With Single-Frequency Oscillation and Wavelength-Upconverted Output. *Yeh, C.*, +, *JPHOT Oct. 2020 7102807*

Highly Birefringent, Low-Loss, and Near-Zero Flat Dispersion ENZ Based THz Photonic Crystal Fibers. *Hossain, M.S.*, +, *JPHOT June 2020 7202109*

Multi-Channel Photonic Crystal Fiber Based Surface Plasmon Resonance Sensor for Multi-Analyte Sensing. *Yasli, A.*, +, *JPHOT Feb. 2020 6800515*

Nonlinear Spectrum Compression of Negatively Chirped Picosecond Pulses in Dispersion-Shifted Telecom Fiber. *Krylov, A.*, +, *JPHOT April 2020 7100515*

Optical Property of Polarization-Maintaining Fiber Taper for Tunable Multi-Wavelength Fiber Laser Generation. *Yuan, F.*, +, *JPHOT Feb. 2020 7100109*

Polarization Coupling of X-Cut Thin Film Lithium Niobate Based Waveguides. *Wang, J.*, +, *JPHOT June 2020 2200310*

Stable Excitation of Orbital Angular Momentum States in Air-Core Fiber Seeded by an Integrated Optical Vortex Beam Emitter. *Wang, J.*, +, *JPHOT Aug. 2020 6601408*

Tunable Multi-Wavelength Bright-Dark and Dark-Bright Pulse Pairs Fiber Lasers. *Xin, Y.*, +, *JPHOT Dec. 2020 7103209*

Weak One-Dimensional Field Confinement Silica Waveguides. *Zhao, C.*, +, *JPHOT Aug. 2020 2200511*

Optical fiber networks

A Method to Reduce the Algorithm Complexity of the Single-Photodiode-per-Polarization Coherent Receiver. *Zhou, K.*, +, *JPHOT Feb. 2020 7100210*

A Robust Reference Optical Spectrum Based in-Band OSNR Monitoring Method Suitable for Flexible Optical Networks. *Zhong, Y.*, +, *JPHOT June 2020 7201310*

A Simple Blind Sampling Frequency Offset Estimation Scheme for Short-Reach DD-OFDM Systems. *Wen, H.*, +, *JPHOT Dec. 2020 7906010*

D-band Millimeter Wave Generation and Transmission Through Radio-Over-Fiber System. *Li, J.L.*, +, *JPHOT April 2020 5500708*

D-Band mm-Wave SSB Vector Signal Generation Based on Cascaded Intensity Modulators. *Li, Y.*, +, *JPHOT April 2020 7201111*

Demonstration of 4×100 Gbit/s PAM-4 Transmission Over 40 km in an IM/DD System Based on Narrow Band DMLs. *Wang, K.*, +, *JPHOT June 2020 7201908*

Full-Duplex Self-Recovery Optical Fibre Transport System Based on a Passive Single-Line Bidirectional Optical Add/Drop Multiplexer. *Li, C.*, +, *JPHOT Oct. 2020 7202310*

K-Band Centralized Cost-Effective All-Optical Sensing Signal Distribution Network. *Esmail, M.A.*, +, *JPHOT Dec. 2020 7202510*

Pre-Distorted Enhanced ADO-OFDM for Hybrid VLC Networks: A Mutual-Interference-Free Approach. *Huang, X.*, +, *JPHOT April 2020 7901512*

Study on the k-Connectivity of UV Communication Network Under the Node Distribution of RWP Mobility Model in the Arbitrary Polygon Area. *Li, C.*, +, *JPHOT Aug. 2020 7903912*

Terahertz-Wave Generation Based on Optical Frequency Comb and Single Mach-Zehnder Modulator. *Yu, J.*, +, *JPHOT Feb. 2020 7900808*

Transmission Distance Extension of Directly Modulated Tunable V-cavity Laser Using AWG Wavelength Detuning. *Zhuang, Y.*, +, *JPHOT June 2020 7201707*

Ultra-High Resolution Wideband on-Chip Spectrometer. *Hasan, M., +, JPHOT Oct. 2020 6802617*

Optical fiber polarization

2.5 kW Narrow Linewidth Linearly Polarized All-Fiber MOPA With Cascaded Phase-Modulation to Suppress SBS Induced Self-Pulsing. *Wang, Y., +, JPHOT June 2020 1502815*

A POTDR System Based on Dual Sensing Directions. *Xiong, B., +, JPHOT April 2020 7100708*

A Robust Reference Optical Spectrum Based in-Band OSNR Monitoring Method Suitable for Flexible Optical Networks. *Zhong, Y., +, JPHOT June 2020 7201310*

Automated Adaptation and Stabilization of a Tunable WDM Polarization-Independent Receiver on Active Silicon Photonic Platform. *Ma, M., +, JPHOT Aug. 2020 4900411*

Compact, High-Performance All-Polarization-Maintaining Er: Fiber Frequency Comb With Single Fiber Actuator. *Cai, Y., +, JPHOT Aug. 2020 7102508*

Corrections to “Evolution of Soliton Rain in a Tm-Doped Passive Mode-Locked All-Fiber Laser” [Aug 20 Art. no. 1503408]. *Wang, F., +, JPHOT Dec. 2020 9700301*

Dissipative Soliton Resonance in an All-Polarization Maintaining Fiber Laser With a Nonlinear Amplifying Loop Mirror. *Gong, Q., +, JPHOT June 2020 1502708*

Distributed Birefringence Measurement of a Polarization-Maintaining Fiber With an Extended Range Based on an Enhanced Brillouin Dynamic Grating. *Jiang, T., +, JPHOT Aug. 2020 7102607*

Evolution of Soliton Rain in a Tm-doped Passive Mode-Locked All-Fiber Laser. *Wang, F., +, JPHOT Aug. 2020 1503408*

Full-Duplex Self-Recovery Optical Fibre Transport System Based on a Passive Single-Line Bidirectional Optical Add/Drop Multiplexer. *Li, C., +, JPHOT Oct. 2020 7202310*

L-band Wavelength-Switchable Dissipative Soliton Resonance Er-doped Fiber Laser. *Liu, S., +, JPHOT April 2020 1501206*

Multi-Wavelength SOA Fiber Laser With Ultra-Narrow Wavelength Spacing Based on NPR Effect. *Zhou, X., +, JPHOT Oct. 2020 7202408*

Nonlinear Polarization Evolution Mode-Locked YDFL Based on All-PM Fiber Cavity. *Wu, Z., +, JPHOT April 2020 1501807*

Optical Property of Polarization-Maintaining Fiber Taper for Tunable Multi-Wavelength Fiber Laser Generation. *Yuan, F., +, JPHOT Feb. 2020 7100109*

Orthogonal Phase Demodulation of Optical Fiber Fabry-Perot Interferometer Based on Birefringent Crystals and Polarization Technology. *Huang, Y., +, JPHOT June 2020 7101209*

Research on Fabrication and Performance of Hollow-Core Anti-Resonant Fiber Coated With Copper Film. *Wu, M., +, JPHOT June 2020 7101708*

RF Interferometry Measurement of Beat Length in Polarization-Maintaining Fiber. *Peng, L., +, JPHOT April 2020 5500608*

Switchable Multi-Wavelength Thulium-Doped Fiber Laser Using Four-Mode Fiber Based Sagnac Loop Filter. *Guo, Y., +, JPHOT April 2020 7100610*

The Simulation of Vortex Modes in Twisted Few-Mode Fiber With Inverse-Parabolic Index Profile. *Zhang, Z., +, JPHOT June 2020 7101908*

Tunable 2 μm Fiber Laser Utilizing a Modified Sagnac Filter Incorporating Cascaded Polarization Maintaining Fibers. *Chen, E., +, JPHOT Feb. 2020 1500507*

Tunable Multi-Wavelength Bright-Dark and Dark-Bright Pulse Pairs Fiber Lasers. *Xin, Y., +, JPHOT Dec. 2020 7103209*

Ultrafine Frequency Linearly Tunable Single-Frequency Fiber Laser Based on Intracavity Active Tuning. *Jin, L., +, JPHOT April 2020 1500806*

Vectorial Nature in Nonlinear Multimode Interference Based Ultrafast Fiber Lasers. *Xia, R., +, JPHOT April 2020 1501310*

Weak One-Dimensional Field Confinement Silica Waveguides. *Zhao, C., +, JPHOT Aug. 2020 2200511*

Optical fiber sensors

High SNR Φ -OTDR Based on Frequency and Wavelength Diversity With Differential Vector Aggregation Method. *Gu, J., +, JPHOT Dec. 2020 7103612*

Investigation of the Radiation Effect on BOTDR Under Low Space Radiation Doses. *Li, M., +, JPHOT Dec. 2020 6803508*

Optical fiber testing

A POTDR System Based on Dual Sensing Directions. *Xiong, B., +, JPHOT April 2020 7100708*

Distributed Birefringence Measurement of a Polarization-Maintaining Fiber With an Extended Range Based on an Enhanced Brillouin Dynamic Grating. *Jiang, T., +, JPHOT Aug. 2020 7102607*

Effect of Laser Polarization on Fiber Bragg Grating Fabry-Perot Interferometer for Ultrasound Detection. *Zhu, Y., +, JPHOT Aug. 2020 7102408*

Measurement of Principal Modes in Few-Mode Fibers by S² Method. *Di, Z., +, JPHOT April 2020 7101308*

Mode Field Diameter Definitions for Few-Mode Fibers Based on Spot Size of Higher-Order Gaussian Mode. *Nakamura, A., +, JPHOT April 2020 7200609*

Optimized Support Vector Machine Assisted BOTDA for Temperature Extraction With Accuracy Enhancement. *Zhu, H., +, JPHOT Feb. 2020 6800214*

RF Interferometry Measurement of Beat Length in Polarization-Maintaining Fiber. *Peng, L., +, JPHOT April 2020 5500608*

Optical fiber theory

Orbital Angular Momentum (OAM) Mode Mixing in a Bent Step Index Fiber in Perturbation Theory: Multiple Bends. *Bhandari, R., JPHOT April 2020 7200510*

Optical fibers

Finesse of Stable Extrinsic Fiber Fabry-Pérot Cavities With Spherical Surfaces. *Choi, J., +, JPHOT Oct. 2020 7102910*

Recent Advances in Silica Glass Optical Fiber for Dosimetry Applications. *Zubair, H., +, JPHOT June 2020 6801525*

Single-Pixel Imaging Based on Optical Fibers. *Tian, Y., +, JPHOT Dec. 2020 7103507*

Theoretical and Numerical Analysis for Design of High Ratio Fiber Optic Taper Drawing Process. *Liu, J., +, JPHOT Dec. 2020 7103712*

Optical films

Angular Color Uniformity Enhancement for Color-Mixed LEDs by Introducing a Diffusing Coating Layer. *Zhu, X., +, JPHOT Aug. 2020 8200712*

Broadband Passive Photonic Diodes With the Saturable Absorption in Antimony Thin Film. *Zhang, J., +, JPHOT Feb. 2020 6100307*

Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y., +, JPHOT April 2020 2400207*

Nonlinear Bound States in the Continuum of Etchless Lithium Niobate Metasurfaces. *Yang, Q., +, JPHOT Oct. 2020 4601209*

Nonmetallic Broadband Visible-Light Absorbers With Polarization and Incident Angle Insensitivity. *Yu, Y., +, JPHOT Dec. 2020 2200807*

Tapered Polymer Fiber Inclinoimeters. *Lee, C., +, JPHOT June 2020 7100910*

Tunable Electromagnetically Induced Transparency-Like Spectrum in Lithium Niobate on Insulator Platform With Narrow Linewidth. *Yu, W., +, JPHOT Oct. 2020 2700308*

Optical filters

A Dual-Frequency Faraday Laser. *Shi, T., +, JPHOT Aug. 2020 1503211*

A Novel Method for Constructing VLC Equalizer With Active-Passive Hybrid Network. *Min, C., +, JPHOT April 2020 7500310*

An Optical Pulse Shaping Scheme for Simultaneous Photonic Filtering and Digitizing Systems. *Sun, Y., +, JPHOT Feb. 2020 5500509*

Circular Airy Beam Based on Bandpass Filter. *Sun, X., +, JPHOT Feb. 2020 6100508*

Dimensional Transformations of Guided-Mode Resonant Photonic Lattices. *Watanabe, A., +, JPHOT Dec. 2020 4502108*

Dual-Channel Phase-Tunable Down Converter With LO Frequency Doubling. *Wang, Y., +, JPHOT Aug. 2020 5501710*

EWT-ASG: Empirical Wavelet Transform With Adaptive Savitzky-Golay Filtering for TDLAS. *He, J., +, JPHOT June 2020 7800712*

Frequency-Sweep-Range-Reconfigurable Complementary Linearly Chirped Microwave Waveform Pair Generation by Using a Fourier Domain Mode Locking Optoelectronic Oscillator Based on Stimulated Brillouin Scattering. *Zhang, L., +, JPHOT June 2020 5501010*

Hybrid OFDM-Digital Filter Multiple Access PONs Utilizing Spectrally Overlapped Digital Orthogonal Filtering. *Sankoh, A.*, +, *JPHOT Oct. 2020 7905311*

Impact of Analog and Digital Pre-Emphasis on the Signal-to-Noise Ratio of Bandwidth-Limited Optical Transceivers. *Zhou, Z.*, +, *JPHOT April 2020 7200712*

Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule. *Zhang, W.*, +, *JPHOT Feb. 2020 2200108*

On-Chip All-Optical Tunable Filter With High Tuning Efficiency. *Chen, M.*, +, *JPHOT April 2020 7800510*

Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength. *Li, J.*, +, *JPHOT Aug. 2020 6601309*

Research on 2F Optical Correlator Based on Neural Network Filter for Recognizing Large-Angle Rotation Distortion Target. *Yang, T.*, +, *JPHOT April 2020 7800310*

Simple and Flexible All-Optical Microwave Photonic Frequency Converter Based on Stimulated Brillouin Scattering Effect. *Wang, Y.*, +, *JPHOT Oct. 2020 7801108*

Simultaneous Generation of Multi-Channel Broadband Chaotic Signals Based on Two Unidirectionally Coupled WRC-FPLDs. *Hu, C.*, +, *JPHOT Oct. 2020 1504008*

Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μm Wavelength Band. *Liu, Y.*, +, *JPHOT Aug. 2020 4900308*

Tunable Germanium-on-Insulator Band-Stop Optical Filter Using Thermo-Optic Effect. *Ho, C.P.*, +, *JPHOT April 2020 6600307*

Optical focusing

A Performance Study of Dielectric Metalens with Process-Induced Defects. *Zhou, Y.*, +, *JPHOT June 2020 4500414*

Analysis of Tapered Nanopillars for Reflective Metalens: The Role of Higher-Order Modes. *Lin, R.*, +, *JPHOT Aug. 2020 4600907*

Generation of Spiral Spin Density Vectors With A Circularly Polarized, Vortex Beam. *Pang, X.*, +, *JPHOT April 2020 6500514*

Photonic Wheels and Their Topological Reaction in a Strongly Focused Amplitude Tailored Beam. *Miao, W.*, +, *JPHOT April 2020 6500709*

Optical frequency combs

Compact, High-Performance All-Polarization-Maintaining Er: Fiber Frequency Comb With Single Fiber Actuator. *Cai, Y.*, +, *JPHOT Aug. 2020 7102508*

D-Band mm-Wave SSB Vector Signal Generation Based on Cascaded Intensity Modulators. *Li, Y.*, +, *JPHOT April 2020 7201111*

Nonlinear Dynamics Induced by Optical Injection in Optical Frequency Combs Generated by Gain-Switching of Laser Diodes. *Quirce, A.*, +, *JPHOT Aug. 2020 1503314*

Numerical Investigation of Parametric Frequency Dependence in the Modeling of Octave-Spanning Kerr Frequency Combs. *Zhao, Y.*, +, *JPHOT April 2020 6600509*

Stability Analysis and Transient Attraction Dynamics of Flat-Top Solitons via Modulated Driving Fields in Normal Dispersion Microcavity. *Jin, X.*, +, *JPHOT Oct. 2020 1503915*

Optical frequency conversion

Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K.*, +, *JPHOT Feb. 2020 1500409*

Near-Infrared Supercontinuum and Ultrashort Pulses Generated Based on Phase-Mismatched Cascaded Frequency Conversion in DSTMS Crystal. *Qian, J.*, +, *JPHOT June 2020 3200306*

Phase-Matched Mid-Infrared Difference Frequency Generation Using a Nanostructured Gallium Arsenide Metamaterial With Nanoholes. *Otman, N.A.*, +, *JPHOT June 2020 5900110*

Simple and Flexible All-Optical Microwave Photonic Frequency Converter Based on Stimulated Brillouin Scattering Effect. *Wang, Y.*, +, *JPHOT Oct. 2020 7801108*

Optical glass

Generation of 1.8-W Average Power From a Diode-Pumped Femtosecond Rotary Nd:Glass Disk Laser. *Gong, L.*, +, *JPHOT Feb. 2020 1500306*

Optical harmonic generation

13.7-W 588-nm Yellow Laser Generation by Frequency Doubling of 885-nm Side-Pumped Nd:YAG-YVO₄ Intracavity Raman Laser. *Sun, B.*, +, *JPHOT April 2020 1501607*

Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. *Li, K.*, +, *JPHOT Oct. 2020 1503811*

Effects of Grain Morphology on Nonlinear Conversion Efficiency of Random Quasi-Phase Matching in Polycrystalline Materials. *Liu, K.*, +, *JPHOT Dec. 2020 2200910*

High-Power High-Repetition-Rate Tunable Yellow Light Generation by an Intracavity-Frequency-Doubled Singly Resonant Optical Parametric Oscillator. *Sun, B.*, +, *JPHOT June 2020 1502310*

Nonlinear Bound States in the Continuum of Etchless Lithium Niobate Metasurfaces. *Yang, Q.*, +, *JPHOT Oct. 2020 4601209*

Vertical Second Harmonic Generation in Asymmetric Dielectric Nanoantennas. *Rocco, D.*, +, *JPHOT June 2020 4500507*

Optical images

Asymmetric Optical Image Encryption With Silhouette Removal Using Interference and Equal Modulus Decomposition. *Luan, G.*, +, *JPHOT April 2020 6900508*

Freeform Surface Graded Optimization of Deformable Mirrors in Integrated Zoom and Image Stabilization System Through Vectorial Ray Tracing and Image Point Freezing Method. *Ning, Y.*, +, *JPHOT Feb. 2020 6900316*

Imaging and Tracking Through Scattering Medium With Low Bit Depth Speckle. *Xu, Q.*, +, *JPHOT April 2020 6900807*

Quantitative Phase Imaging During Cell Division Based on Dual-Channel Microscopic Interferometry System. *Liu, S.*, +, *JPHOT Feb. 2020 6900411*

Surface Micro-Reflector Array for Augmented Reality Display. *Yan, Z.*, +, *JPHOT April 2020 7000209*

Optical imaging

Propagation Properties of Gaussian Schell-Model Beam Array in the Jet Engine Exhaust Induced Turbulence. *Zhang, Y.*, +, *JPHOT Dec. 2020 6501113*

Optical information processing

A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation. *Zhang, H.*, +, *JPHOT Feb. 2020 5500208*

Asymmetric Optical Image Encryption With Silhouette Removal Using Interference and Equal Modulus Decomposition. *Luan, G.*, +, *JPHOT April 2020 6900508*

Broadband Microwave Spectrum Sensing Based on Photonic RF Channelization and Compressive Sampling. *Yang, B.*, +, *JPHOT Feb. 2020 5500109*

Imaging and Tracking Through Scattering Medium With Low Bit Depth Speckle. *Xu, Q.*, +, *JPHOT April 2020 6900807*

Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength. *Li, J.*, +, *JPHOT Aug. 2020 6601309*

Optical interconnections

Comparison of Geometrically Shaped and Probabilistically Shaped Bit-Loading DMT for Optical Interconnect System. *Ding, J.*, +, *JPHOT April 2020 7201008*

The Design of CMOS-Compatible Plasmonic Waveguides for Intra-Chip Communication. *Liu, Y.*, +, *JPHOT Oct. 2020 4800810*

Optical Kerr effect

Carrier-Envelope Offset Frequency Stabilization of a Thin-Disk Laser Oscillator via Depletion Modulation. *Andrade, J.R.C.*, +, *JPHOT April 2020 1500609*

Numerical Investigation of Parametric Frequency Dependence in the Modeling of Octave-Spanning Kerr Frequency Combs. *Zhao, Y.*, +, *JPHOT April 2020 6600509*

Spatial Beam Self-Cleaning in Tapered Yb-Doped GRIN Multimode Fiber With Decelerating Nonlinearity. *Niang, A.*, +, *JPHOT April 2020 6500308*

Stability Analysis and Transient Attraction Dynamics of Flat-Top Solitons via Modulated Driving Fields in Normal Dispersion Microcavity. *Jin, X.*, +, *JPHOT Oct. 2020 1503915*

Optical links

A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M.*, +, *JPHOT Dec. 2020 7906212*

A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation. *Zhang, H.*, +, *JPHOT Feb. 2020 5500208*

Atmospheric Turbulence Suppression Algorithm Based on APD Adaptive Gain Control for FSO Links of 5G Floating Base Stations. *Yu, X., +, JPHOT Aug. 2020 7904011*

CNN-Based Phase Matching for the OAM Mode Selection in Turbulence Heterodyne Coherent Mitigation Links. *Yang, C., +, JPHOT Dec. 2020 7905913*

Demonstration of a 2.34 Gbit/s Real-Time Single Silicon-Substrate Blue LED-Based Underwater VLC System. *Chen, M., +, JPHOT Feb. 2020 7900211*

Diffused-Line-of-Sight Communication for Mobile and Fixed Underwater Nodes. *Guo, Y., +, JPHOT Dec. 2020 7906413*

Dynamic Physical-Layer Secured Link in a Mobile MIMO VLC System. *Younus, O.I., +, JPHOT June 2020 7902814*

Enhancement of SOA-Based Scintillation Mitigation by PS-OOK Transmission in FSO Communication. *Hong, Y., +, JPHOT Aug. 2020 7903510*

Enhancement of Tetrahedral Chromium (Cr⁴⁺) Concentration for High-Gain in Single-Mode Crystalline Core Fibers. *Liu, C., +, JPHOT April 2020 7200811*

Fast Detection and Tracking of a Moving Transmitter via Visible Light Communication Link. *Ahmed, M., +, JPHOT Aug. 2020 7904414*

Free-Space Communication Turbulence Compensation by Optical Phase Conjugation. *Chen, J., +, JPHOT Oct. 2020 7905611*

Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz. *Vallejo, L., +, JPHOT Feb. 2020 5500309*

Improve The Capacity Of Data Transmission In Orbital Angular Momentum Multiplexing By Adjusting Link Structure. *Zhao, L., +, JPHOT June 2020 5501111*

Impulse Response Modeling of Underwater Optical Scattering Channels for Wireless Communication. *Boluda-Ruiz, R., +, JPHOT Aug. 2020 7904414*

K-Band Centralized Cost-Effective All-Optical Sensing Signal Distribution Network. *Esmail, M.A., +, JPHOT Dec. 2020 7202510*

Light-Emitting Commutating Diodes for Optical Wireless Communications Within LED Drivers. *Pawlikowski, W., +, JPHOT Oct. 2020 7905111*

Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas. *Miglani, R., +, JPHOT Aug. 2020 7904621*

Performance Limits for Fingerprinting-Based Indoor Optical Communication Positioning Systems Exploiting Multipath Reflections. *Hosseinianfar, H., +, JPHOT Aug. 2020 7903416*

Phase Alignment With Minimum Complexity for Equal Gain Combining in Multi-Aperture Free-Space Digital Coherent Optical Communication Receivers. *Tu, Y., +, JPHOT April 2020 7901410*

Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D., +, JPHOT Dec. 2020 5502814*

Pre-Distorted Enhanced ADO-OFDM for Hybrid VLC Networks: A Mutual-Interference-Free Approach. *Huang, X., +, JPHOT April 2020 7901512*

Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. *Zhang, J., +, JPHOT April 2020 7902011*

The Link Attenuation Model Based on Monte Carlo Simulation for Laser Transmission in Fog Channel. *Hu, S., +, JPHOT Aug. 2020 6100910*

Optical logic

Nanoscale Optical Logic Circuits by Single-Step FRET. *Inoue, J., +, JPHOT April 2020 6500112*

Sequential Logic and Pipelining in Chip-Based Electronic-Photonic Digital Computing. *Ying, Z., +, JPHOT Dec. 2020 7801311*

Optical losses

Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L., +, JPHOT Oct. 2020 6601906*

Design of Partially Suspended Silicon Nitride Slot Waveguides for Efficient Forward Stimulated Brillouin Scattering. *Wang, K., +, JPHOT Aug. 2020 4501211*

Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits. *Yu, X., +, JPHOT Oct. 2020 2200708*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*

Interleaved Subwavelength Gratings Strip Waveguide Based TM Pass Polarizer on SOI Platform. *Xu, Z., +, JPHOT April 2020 4900110*

Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y., +, JPHOT April 2020 2400207*

Mode Division Multiplexing Based on Supermodes in Densely Packed Uniform Waveguide Array (DPUWA). *Chen, K., +, JPHOT April 2020 7901810*

Polarization Coupling of X-Cut Thin Film Lithium Niobate Based Waveguides. *Wang, J., +, JPHOT June 2020 2200310*

Resonant Excitation Analysis on Asymmetrical Lateral Leakage of Light in Finite Zero-Contrast Grating Mirror. *Sang, T., +, JPHOT April 2020 4500111*

Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μ m Wavelength Band. *Liu, Y., +, JPHOT Aug. 2020 4900308*

Ultra-Broadband, Fabrication Tolerant Optical Coupler for Arbitrary Splitting Ratio Using Particle Swarm Optimization Algorithm. *Leng, L., +, JPHOT Oct. 2020 6602212*

Ultralow Loss and High Extinction Ratio TM-Pass Polarizer in Silicon Photonics. *Dhingra, N., +, JPHOT Dec. 2020 6602311*

Optical materials

Actively Q-Switched Tm:YAP Laser Constructed Using an Electro-Optic Periodically Poled Lithium Niobate Bragg Modulator. *Lin, S., +, JPHOT Oct. 2020 1503509*

Broadband Passive Photonic Diodes With the Saturable Absorption in Antimony Thin Film. *Zhang, J., +, JPHOT Feb. 2020 6100307*

Effects of Grain Morphology on Nonlinear Conversion Efficiency of Random Quasi-Phase Matching in Polycrystalline Materials. *Liu, K., +, JPHOT Dec. 2020 2200910*

Efficient and Tunable 1.6- μ m MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO₄/YVO₄ Raman Laser. *Zhao, L., +, JPHOT Feb. 2020 1500107*

Investigation of Enhanced Transmission and Beaming Effect Through an InSb Subwavelength Grating With a Slit at the Terahertz Range. *Liu, X., +, JPHOT Feb. 2020 4800112*

Near-Infrared Supercontinuum and Ultrashort Pulses Generated Based on Phase-Mismatched Cascaded Frequency Conversion in DSTMS Crystal. *Qian, J., +, JPHOT June 2020 3200306*

Self-Defocusing of Light in Ethanol Around 1550 nm. *Yi, J., +, JPHOT Feb. 2020 6100408*

Optical metamaterials

A Performance Study of Dielectric Metamaterials with Process-Induced Defects. *Zhou, Y., +, JPHOT June 2020 4500414*

All-Dielectric Metasurface-Based Quad-Beam Splitter in the Terahertz Regime. *Lv, B., +, JPHOT Oct. 2020 4601410*

Analysis of Tapered Nanopillars for Reflective Metamaterials: The Role of Higher-Order Modes. *Lin, R., +, JPHOT Aug. 2020 4600907*

Coherent Perfect Absorber Based on Antisymmetric Metasurface With Gain Material. *Chen, M., +, JPHOT June 2020 4500609*

Efficient Optical Spatial First-Order Differentiator Based on Graphene-Based Metalines and Evolutionary Algorithms. *Zhang, T., +, JPHOT April 2020 4800210*

Generation of Optical Vortices With Polarization-Insensitive Metasurfaces. *Shen, Z., +, JPHOT Aug. 2020 4601010*

Irrational Nanobricks Based High-Efficiency Polarization-Independence Metasurfaces. *Wang, W., +, JPHOT Aug. 2020 4501108*

Nanoscale Noncoplanar Beam Splitters With Tunable Split Ratio. *Tian, S., +, JPHOT April 2020 4600309*

Nonlinear Bound States in the Continuum of Etchless Lithium Niobate Metasurfaces. *Yang, Q., +, JPHOT Oct. 2020 4601209*

Optical Trapping and Separation of Metal Nanoparticles by Cylindrical Metalenses With Phase Gradients. *Shen, Z., +, JPHOT Aug. 2020 4600810*

Phase-Matched Mid-Infrared Difference Frequency Generation Using a Nanostructured Gallium Arsenide Metamaterial With Nanoholes. *Oman, N.A., +, JPHOT June 2020 5900110*

Planar Plasmonic Terahertz Waveguide Based Upon One Dimensional Array of Pyramidal Corrugations and Refractive Index Sensing. *Dhriti, K.*, +, *JPHOT Dec. 2020 4801010*

Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. *Wenclawiak, M.*, +, *JPHOT Oct. 2020 5900608*

Switchable Quarter-Wave Plate and Half-Wave Plate Based on Phase-Change Metasurface. *Li, Y.*, +, *JPHOT April 2020 4600410*

Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing. *Hu, M.*, +, *JPHOT Aug. 2020 5900309*

Terahertz Reconfigurable Metasurface for Dynamic Non-Diffractive Orbital Angular Momentum Beams using Vanadium Dioxide. *Wang, L.*, +, *JPHOT June 2020 4600712*

Tunable and Multiple Plasmon-Induced Transparency in a Metasurface Comprised of Silver S-Shaped Resonator and Rectangular Strip. *Bilal, R.M.H.*, +, *JPHOT June 2020 4500913*

Tunable and Reconfigurable Dual-Band Chiral Metamirror. *Fan, J.*, +, *JPHOT Oct. 2020 4601108*

Tunable Anisotropic Perfect Enhancement Absorption in Black Phosphorus-Based Metasurfaces. *Tang, B.*, +, *JPHOT June 2020 4500209*

Tunable Electro- and All-Optical Switch Based on Epsilon-Near-Zero Metasurface. *Xie, Z.T.*, +, *JPHOT Aug. 2020 4501510*

Vanadium Dioxide-Based Bifunctional Metamaterial for Terahertz Waves. *Zhang, M.*, +, *JPHOT Feb. 2020 4600109*

Optical microscopy

Fast Aberrations Compensation in Digital Holographic Microscopy Based on Phase Transformation. *Deng, D.*, +, *JPHOT June 2020 6901409*

High-Throughput Deep Learning Microscopy Using Multi-Angle Super-Resolution. *Zhang, J.*, +, *JPHOT April 2020 6900914*

Quantitative Phase Imaging During Cell Division Based on Dual-Channel Microscopic Interferometry System. *Liu, S.*, +, *JPHOT Feb. 2020 6900411*

Restoration of Out-of-Focus Fluorescence Microscopy Images Using Learning-Based Depth-Variant Deconvolution. *He, D.*, +, *JPHOT April 2020 3900113*

Sequential Shift Absolute Phase Aberration Calibration in Digital Holographic Phase Imaging Based on Chebyshev Polynomials Fitting. *He, W.*, +, *JPHOT Feb. 2020 6900111*

Surface Plasmon Microscopy Versus Optical Microscopy: Ez Dominates in SPM. *Zhang, B.*, +, *JPHOT Dec. 2020 4801009*

Optical modulation

2.5 kW Narrow Linewidth Linearly Polarized All-Fiber MOPA With Cascaded Phase-Modulation to Suppress SBS Induced Self-Pulsing. *Wang, Y.*, +, *JPHOT June 2020 1502815*

56 Gbit/s OOK Signal in C-band Over 20 km Dispersion-Uncompensated Link Transmission With Receiver-Side EDC Algorithm. *Liang, W.*, +, *JPHOT Oct. 2020 7905707*

A Chaotic State in the Transition From Single Toward Multiple Pulse for Soliton Fiber Lasers. *Du, Y.*, +, *JPHOT April 2020 3200112*

A Microwave Frequency Measurement System Based on Si3N4 Ring-Assisted Mach-Zehnder Interferometer. *Zhang, H.*, +, *JPHOT Aug. 2020 7102213*

A Novel Method for Constructing VLC Equalizer With Active-Passive Hybrid Network. *Min, C.*, +, *JPHOT April 2020 7500310*

A Novel Phase Noise Suppression Scheme Utilizing Gaussian Wavelet Basis Expansion for PDM CO-OFDM Superchannel. *Chen, Y.*, +, *JPHOT April 2020 7902309*

A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation. *Zhang, H.*, +, *JPHOT Feb. 2020 5500208*

A Photonic Approach for Doppler Frequency Shift Measurement With Dispersion Medium. *Yi, C.*, +, *JPHOT Oct. 2020 7102708*

A Simplified Radio-Over-Fiber System for Over 100-km Long-Reach n-QAM Transmission. *Shiu, R.*, +, *JPHOT June 2020 7902908*

A Tunable Energy Signal for Intensity Modulation and Direct Detection Systems: Theory, Simulations, and Experiments. *Vejandla, K.*, +, *JPHOT Feb. 2020 7900412*

Adaptive Blind Stokes-Space Based Equalizer for RSOP in SV-DD Systems With High Chromatic Dispersion Tolerance. *Jin, Y.*, +, *JPHOT April 2020 7200913*

All-Fiber Laser With Agile Mode-Switching Capability Through Intra-Cavity Conversion. *Wu, H.*, +, *JPHOT April 2020 1500709*

Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. *Li, K.*, +, *JPHOT Oct. 2020 1503811*

Automated Adaptation and Stabilization of a Tunable WDM Polarization-Independent Receiver on Active Silicon Photonic Platform. *Ma, M.*, +, *JPHOT Aug. 2020 4900411*

Bias-Free Silicon-Based Optical Single-Sideband Modulator Without 2nd-Order Sideband. *Keshavarz, H.*, +, *JPHOT Aug. 2020 5501816*

Blind Frequency Offset Estimation Based on Phase Rotation For Coherent Transceiver. *Tan, Q.*, +, *JPHOT April 2020 7902212*

Broadband Photonic Down-Conversion Preprocessor for ADC With Arcsine Equalization. *Guo, R.*, +, *JPHOT June 2020 5501316*

Color-Shift-Keying Embedded Direct-Current Optical-Orthogonal-Frequency-Division-Multiplexing (CSK-DCO-OFDM) for Visible Light Communications (VLC). *Gunawan, W.H.*, +, *JPHOT Oct. 2020 7905205*

Comparison of Geometrically Shaped and Probabilistically Shaped Bit-Loading DMT for Optical Interconnect System. *Ding, J.*, +, *JPHOT April 2020 7201008*

D-band Millimeter Wave Generation and Transmission Through Radio-Over-Fiber System. *Li, J.L.*, +, *JPHOT April 2020 5500708*

D-Band mm-Wave SSB Vector Signal Generation Based on Cascaded Intensity Modulators. *Li, Y.*, +, *JPHOT April 2020 7201111*

Demonstration of 4 × 100 Gbit/s PAM-4 Transmission Over 40 km in an IM/DD System Based on Narrow Band DMLs. *Wang, K.*, +, *JPHOT June 2020 7201908*

Demonstration of a 2.34 Gbit/s Real-Time Single Silicon-Substrate Blue LED-Based Underwater VLC System. *Chen, M.*, +, *JPHOT Feb. 2020 7900211*

Demonstration of Non-Hermitian Symmetry (NHS) IFFT/FFT Size Efficient OFDM Non-Orthogonal Multiple Access (NOMA) for Visible Light Communication. *Adnan, A.*, +, *JPHOT June 2020 7201405*

Design of the Real-Time Single-Photodiode Digital Coherent Receiver Suitable for Free Space Optical Communication. *Zhou, K.*, +, *JPHOT Oct. 2020 7905412*

Dual-Channel Phase-Tunable Down Converter With LO Frequency Doubling. *Wang, Y.*, +, *JPHOT Aug. 2020 5501710*

Enhancement of SOA-Based Scintillation Mitigation by PS-OOK Transmission in FSO Communication. *Hong, Y.*, +, *JPHOT Aug. 2020 7903510*

Experimental Investigations on Polarization Switching and Bistability in a 1550 nm VCSEL Subject to Orthogonal Optical Injection With Time-Varying Injection Power. *Wang, Q.*, +, *JPHOT Oct. 2020 1504108*

Filterless Radio-Over-Fiber System to Generate 40 and 80 GHz Millimeter-Wave. *Wu, Z.*, +, *JPHOT Dec. 2020 5502313*

Free-Space Communication Turbulence Compensation by Optical Phase Conjugation. *Chen, J.*, +, *JPHOT Oct. 2020 7905611*

Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K.*, +, *JPHOT Feb. 2020 1500409*

Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays. *Arvanitakis, G.N.*, +, *JPHOT April 2020 7901210*

Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber. *Li, G.*, +, *JPHOT April 2020 1501009*

Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving. *Zhang, T.*, +, *JPHOT Dec. 2020 5502512*

Hybrid OFDM-Digital Filter Multiple Access PONs Utilizing Spectrally Overlapped Digital Orthogonal Filtering. *Sankoh, A.*, +, *JPHOT Oct. 2020 7905311*

Impact of Analog and Digital Pre-Emphasis on the Signal-to-Noise Ratio of Bandwidth-Limited Optical Transceivers. *Zhou, Z.*, +, *JPHOT April 2020 7200712*

Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz. *Vallejo, L.*, +, *JPHOT Feb. 2020 5500309*

Lead Sulfide Saturable Absorber Based Passively Mode-Locked Tm-Doped Fiber Laser. *Liu, F.*, +, *JPHOT April 2020 1500910*

- Low-Complexity Time-Domain Averaging-Based DAC Clock Tone Leakage Compensation for Short-Reach PAM4 Transmission. *Chen, M., +, JPHOT June 2020 7202014*
- Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas. *Miglani, R., +, JPHOT Aug. 2020 7904621*
- Nonlinearity Mitigation of Multi-Level Optical Transmission Using Spectrum-Split Digital Pre-Distortion. *Lim, G., +, JPHOT Feb. 2020 7200208*
- OFDM With Differential Index Modulation for Visible Light Communication. *Zheng, D., +, JPHOT Feb. 2020 7900708*
- Optical Multipath RF Self-Interference Cancellation Based on Phase Modulation for Full-Duplex Communication. *Su, X., +, JPHOT Aug. 2020 7102114*
- Optical Self-Interference Cancellation With Frequency Down-Conversion Based on Cascade Modulator. *Wang, J., +, JPHOT Dec. 2020 5502708*
- Photonic Approach for Generation and Fast Switching of Binary Digitally Modulated RF Signals. *Feng, X., +, JPHOT Oct. 2020 5502208*
- Photonic Approach for Measuring AOA of Multiple Signals With Improved Measurement Accuracy. *Chen, H., +, JPHOT June 2020 7201810*
- Photonic Generation of Triangular-Shaped Waveform With Tunable Symmetry Factor Based on Two Single-Drive Mach-Zehnder Modulator. *Wang, C., +, JPHOT Dec. 2020 5502411*
- Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D., +, JPHOT Dec. 2020 5502814*
- Pre-Distorted Enhanced ADO-OFDM for Hybrid VLC Networks: A Mutual-Interference-Free Approach. *Huang, X., +, JPHOT April 2020 7901512*
- Rate Analysis of Intensity Modulated Broadcast Optical Mobile Communication System With User Mobility. *Gao, J., +, JPHOT Oct. 2020 7905312*
- Real-Time RF Multi-Dimensional Signal Switching Using Polarization-Dependent Optical Mixing. *Liu, Q., +, JPHOT April 2020 5500808*
- Should Analogue Pre-Equalisers be Avoided in VLC Systems?. *Li, X., +, JPHOT April 2020 7901014*
- Spatial-Dependent Hamiltonian Formulation of Cross-Mode Modulation. *Yang, H., +, JPHOT Feb. 2020 6100208*
- SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs. *Zhang, X., +, JPHOT June 2020 7903113*
- Stability Analysis and Transient Attraction Dynamics of Flat-Top Solitons via Modulated Driving Fields in Normal Dispersion Microcavity. *Jin, X., +, JPHOT Oct. 2020 1503915*
- Terahertz-Wave Generation Based on Optical Frequency Comb and Single Mach-Zehnder Modulator. *Yu, J., +, JPHOT Feb. 2020 7900808*
- Theoretical Analyses of Different Nonlinear Compensation Methods Based on Perturbation Theories in the Unrepeated System With Raman Amplification. *Wang, Y., +, JPHOT Aug. 2020 7903611*
- Toward Long-Distance Underwater Wireless Optical Communication Based on A High-Sensitivity Single Photon Avalanche Diode. *Chen, H., +, JPHOT June 2020 7902510*
- Transmission Distance Extension of Directly Modulated Tunable V-cavity Laser Using AWG Wavelength Detuning. *Zhuang, Y., +, JPHOT June 2020 7201707*
- Watt-Level Continuous-Wave Mode-Locked Nd:YVO₄ Laser With ReSe₂ Saturable Absorber. *Xue, Y., +, JPHOT Oct. 2020 1503710*
- Wideband and Ambiguous-Free RF Channelizer Assisted Jointly by Spacing and Profile of Optical Frequency Comb. *Lu, X., +, JPHOT June 2020 5500911*
- Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P., +, JPHOT Dec. 2020 6602409*
- Optical multilayers**
- Depth Scattering Characterization of Multi-Layer Turbid Media Based on Iterative Multi-Plane Reflectance Measurements. *Yariv, I., +, JPHOT Oct. 2020 3700713*
- Optimized Multilayer Structures With Ultrabroadband Near-Perfect Absorption. *You, C., +, JPHOT June 2020 4500810*
- Vanadium Dioxide-Based Bifunctional Metamaterial for Terahertz Waves. *Zhang, M., +, JPHOT Feb. 2020 4600109*
- Optical noise**
- A Single-Mode Erbium Fiber Laser With Flat Power Output and Wide Wavelength Tunability. *Yeh, C., +, JPHOT Dec. 2020 7202805*
- Optimized Support Vector Machine Assisted BOTDA for Temperature Extraction With Accuracy Enhancement. *Zhu, H., +, JPHOT Feb. 2020 6800214*
- Optical parametric amplifiers**
- Generation of Terawatt-Scale Vortex Pulses Based on Optical Parametric Chirped-Pulse Amplification. *Pan, W., +, JPHOT June 2020 1502608*
- Ultrasensitive Sizing Sensor for a Single Nanoparticle in a Hybrid Nonlinear Microcavity. *Li, L., +, JPHOT June 2020 4500708*
- Optical parametric oscillators**
- A High Efficient Dual-Wavelength Mid-Infrared Optical Parametric Oscillator Pumped by the Raman Fiber Oscillator. *Feng, J., +, JPHOT June 2020 1502908*
- Efficient and Tunable 1.6- μm MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO₄/YVO₄ Raman Laser. *Zhao, L., +, JPHOT Feb. 2020 1500107*
- Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K., +, JPHOT Feb. 2020 1500409*
- High-Power High-Repetition-Rate Tunable Yellow Light Generation by an Intracavity-Frequency-Doubled Singly Resonant Optical Parametric Oscillator. *Sun, B., +, JPHOT June 2020 1502310*
- Quadratic Soliton Combs in Doubly Resonant Dispersive Optical Parametric Oscillators. *Sheng, A., +, JPHOT April 2020 6100607*
- Optical phase conjugation**
- A Raman-Pumped Dispersion and Nonlinearity Compensating Fiber For Fiber Optic Communications. *Bidaki, E., +, JPHOT Feb. 2020 7200117*
- Dispersion and Nonlinearity Distortion Compensation of the QPSK/16QAM Signals Using Optical Phase Conjugation in Nonlinear SOAs. *Sobhanan, A., +, JPHOT Feb. 2020 7800107*
- Free-Space Communication Turbulence Compensation by Optical Phase Conjugation. *Chen, J., +, JPHOT Oct. 2020 7905611*
- Transmission Matrix Based Image Super-Resolution Reconstruction Through Scattering Media. *Zhou, S., +, JPHOT June 2020 6901311*
- Optical phase locked loops**
- Fourier and Inverse Fourier Transform Model for Delayed Self-interferometry System. *Zhang, L., +, JPHOT June 2020 5501511*
- Optical phase matching**
- CNN-Based Phase Matching for the OAM Mode Selection in Turbulence Heterodyne Coherent Mitigation Links. *Yang, C., +, JPHOT Dec. 2020 7905913*
- Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L., +, JPHOT Oct. 2020 6601906*
- Effects of Grain Morphology on Nonlinear Conversion Efficiency of Random Quasi-Phase Matching in Polycrystalline Materials. *Liu, K., +, JPHOT Dec. 2020 2200910*
- Modeling and Optimization of Vortex Modes Propagation in Rectangular Dielectric Waveguides. *Lyubopytov, V.S., +, JPHOT Feb. 2020 6100117*
- Near-Infrared Supercontinuum and Ultrashort Pulses Generated Based on Phase-Mismatched Cascaded Frequency Conversion in DSTMS Crystal. *Qian, J., +, JPHOT June 2020 3200306*
- Numerical Investigation of Parametric Frequency Dependence in the Modeling of Octave-Spanning Kerr Frequency Combs. *Zhao, Y., +, JPHOT April 2020 6600509*
- Phase-Matched Mid-Infrared Difference Frequency Generation Using a Nanostructured Gallium Arsenide Metamaterial With Nanoholes. *Otman, N.A., +, JPHOT June 2020 5900110*
- Simultaneous Mid-Infrared Gas Sensing and Upconversion Based on Third Harmonic Generation in Cascaded Waveguides. *Pan, J., +, JPHOT April 2020 6800912*
- Ultraviolet-Extended Supercontinuum Generation in Zero-Dispersion Wavelength Decreasing Photonic Crystal Fibers. *Bi, W., +, JPHOT Dec. 2020 3200608*

Optical phase shifters

Photonic Generation of Triangular-Shaped Waveform With Tunable Symmetry Factor Based on Two Single-Drive Mach-Zehnder Modulator. *Wang, C.*, +, *JPHOT Dec. 2020 5502411*

Optical planar waveguides

Modeling and Optimization of Vortex Modes Propagation in Rectangular Dielectric Waveguides. *Lyubopytov, V.S.*, +, *JPHOT Feb. 2020 6100117*

Planar Plasmonic Terahertz Waveguide Based Upon One Dimensional Array of Pyramidal Corrugations and Refractive Index Sensing. *Dhriti, K.*, +, *JPHOT Dec. 2020 4801010*

Resonant Reflection From Cylindrical Grating-Waveguide Under Holistic Excitation. *Koussi, E.K.*, +, *JPHOT April 2020 2700111*

Optical polarization

Detection of Polarization and Topological Charge Based on Multidimensional Field of Metasurface. *Luan, J.*, +, *JPHOT Dec. 2020 4601510*

Nanowire Grid Reflecting Polarizers for Ultraviolet Applications. *Zhao, Z.*, +, *JPHOT Dec. 2020 4502011*

Optical-Stark Induced Distortions in Vortex Momentum Distributions of p-Orbital Electrons of Neon Atoms. *He, Y.*, +, *JPHOT Dec. 2020 6101209*

Polarization Multiplexed Optical OFDM System With a Beat Interference Cancellation Receiver. *Ma, J.*, +, *JPHOT Dec. 2020 7202710*

Surface Plasmon Microscopy Versus Optical Microscopy: Ez Dominates in SPM. *Zhang, B.*, +, *JPHOT Dec. 2020 4801009*

Optical polarizers

Interleaved Subwavelength Gratings Strip Waveguide Based TM Pass Polarizer on SOI Platform. *Xu, Z.*, +, *JPHOT April 2020 4900110*

Multi-Wavelength SOA Fiber Laser With Ultra-Narrow Wavelength Spacing Based on NPR Effect. *Zhou, X.*, +, *JPHOT Oct. 2020 7202408*

Sensitivity-Based Structural Optimal Design With Bi-Directional Beam Propagation Method for Photonic Devices in High-Index-Contrast Waveguides. *Iguchi, A.*, +, *JPHOT Oct. 2020 6602111*

Ultralow Loss and High Extinction Ratio TM-Pass Polarizer in Silicon Photonics. *Dhingra, N.*, +, *JPHOT Dec. 2020 6602311*

Optical polymers

Electro-Absorption Optical Modulator Based on Graphene-Buried Polymer Waveguides. *Lian, T.*, +, *JPHOT Aug. 2020 6601610*

High Precision Fabrication Method of Fresnel Diffractive Lenses on Ultrathin Membrane for Imaging Application. *Liu, X.*, +, *JPHOT Aug. 2020 2400310*

High-Speed Optical-Beam Scanning by an Optical Phased Array Using Electro-Optic Polymer Waveguides. *Hirano, Y.*, +, *JPHOT April 2020 6600807*

Low Power Consumption Mode Switch Based on Three-Dimensional Polymer Mach-Zehnder Interferometer. *Lv, J.*, +, *JPHOT June 2020 7800810*

Nonlinear Bound States in the Continuum of Etchless Lithium Niobate Metasurfaces. *Yang, Q.*, +, *JPHOT Oct. 2020 4601209*

Tapered Polymer Fiber Inclination. *Lee, C.*, +, *JPHOT June 2020 7100910*

Ultra-Low Index-Contrast Polymeric Photonic Crystal Nanobeam Electro-Optic Modulator. *Li, X.*, +, *JPHOT June 2020 4900208*

Optical prisms

Dual Gm-APD Polarization Lidar to Acquire the Depth Image of Shallow Semitransparent Media With a Wide Laser Pulse. *Xu, L.*, +, *JPHOT Oct. 2020 6803310*

Optical projectors

Three-Dimensional Measurement for Rigid Moving Objects Based on Multi-Fringe Projection. *Wang, J.*, +, *JPHOT Aug. 2020 6802114*

Optical pulse compression

Environmentally Stable 1.56- μm Femtosecond Laser System With Discontinuous Selectable Repetition Rate. *Fu, H.*, +, *JPHOT June 2020 1502507*

Generation of Terawatt-Scale Vortex Pulses Based on Optical Parametric Chirped-Pulse Amplification. *Pan, W.*, +, *JPHOT June 2020 1502608*

High-Power Femtosecond Pulse Generation From an All-Fiber Er-Doped Chirped Pulse Amplification System. *Wei, R.*, +, *JPHOT April 2020 3200208*

Nonlinear Spectrum Compression of Negatively Chirped Picosecond Pulses in Dispersion-Shifted Telecom Fiber. *Krylov, A.*, +, *JPHOT April 2020 7100515*

Optical pulse generation

Dissipative Soliton Resonance in an All-Polarization Maintaining Fiber Laser With a Nonlinear Amplifying Loop Mirror. *Gong, Q.*, +, *JPHOT June 2020 1502708*

Environmentally Stable 1.56- μm Femtosecond Laser System With Discontinuous Selectable Repetition Rate. *Fu, H.*, +, *JPHOT June 2020 1502507*

Generation of 1.8-W Average Power From a Diode-Pumped Femtosecond Rotary Nd:Glass Disk Laser. *Gong, L.*, +, *JPHOT Feb. 2020 1500306*

Generation of Flat-Top Q-Switched Envelope Dissipative Soliton Resonance Pulse in Passively Mode-Locked Fiber Laser. *Han, L.*, +, *JPHOT April 2020 7101508*

Generation of Terawatt-Scale Vortex Pulses Based on Optical Parametric Chirped-Pulse Amplification. *Pan, W.*, +, *JPHOT June 2020 1502608*

High-Power Femtosecond Pulse Generation From an All-Fiber Er-Doped Chirped Pulse Amplification System. *Wei, R.*, +, *JPHOT April 2020 3200208*

Lead Sulfide Saturable Absorber Based Passively Mode-Locked Tm-Doped Fiber Laser. *Liu, F.*, +, *JPHOT April 2020 1500910*

Near-Infrared Supercontinuum and Ultrashort Pulses Generated Based on Phase-Mismatched Cascaded Frequency Conversion in DSTMS Crystal. *Qian, J.*, +, *JPHOT June 2020 3200306*

Nonlinear Polarization Evolution Mode-Locked YDFL Based on All-PM Fiber Cavity. *Wu, Z.*, +, *JPHOT April 2020 1501807*

Simulation for Generation of Several Types of Pulses in an Yb-Doped Mode-Locked Fiber Laser. *Cui, Y.*, +, *JPHOT Dec. 2020 1504413*

Spatial Beam Self-Cleaning in Tapered Yb-Doped GRIN Multimode Fiber With Decelerating Nonlinearity. *Niang, A.*, +, *JPHOT April 2020 6500308*

Optical pulse shaping

An Optical Pulse Shaping Scheme for Simultaneous Photonic Filtering and Digitizing Systems. *Sun, Y.*, +, *JPHOT Feb. 2020 5500509*

Optical pulses

Optical-Stark Induced Distortions in Vortex Momentum Distributions of p-Orbital Electrons of Neon Atoms. *He, Y.*, +, *JPHOT Dec. 2020 6101209*

Optical pumping

13.7-W 588-nm Yellow Laser Generation by Frequency Doubling of 885-nm Side-Pumped Nd:YAG-YVO₄ Intracavity Raman Laser. *Sun, B.*, +, *JPHOT April 2020 1501607*

A Comparative Study of Thermal Impact on Erbium Doped Distributed Feedback Fiber Laser Output Power. *Guo, J.*, +, *JPHOT April 2020 1502009*

A High Efficient Dual-Wavelength Mid-Infrared Optical Parametric Oscillator Pumped by the Raman Fiber Oscillator. *Feng, J.*, +, *JPHOT June 2020 1502908*

A Novel Repetition Rate Adjustable SBS-Based Q-Switched Fiber Laser. *Hou, S.*, +, *JPHOT April 2020 1501408*

A Raman-Pumped Dispersion and Nonlinearity Compensating Fiber For Fiber Optic Communications. *Bidaki, E.*, +, *JPHOT Feb. 2020 7200117*

A Sub-kHz Narrow-Linewidth, and Hundred-mW High-Output-Power Silicon-Based Er Silicate Laser With Hybrid Pump and Signal Co-Resonant Cavity. *Zhou, P.*, +, *JPHOT Feb. 2020 1500212*

Actively Q-Switched Tm:YAP Laser Constructed Using an Electro-Optic Periodically Poled Lithium Niobate Bragg Modulator. *Lin, S.*, +, *JPHOT Oct. 2020 1503509*

All-Fiber High Power Supercontinuum Generation by Cascaded Photonic Crystal Fibers Ranging From 370 nm to 2400 nm. *Zhang, H.*, +, *JPHOT April 2020 7101608*

All-Fiber Laser With Agile Mode-Switching Capability Through Intra-Cavity Conversion. *Wu, H.*, +, *JPHOT April 2020 1500709*

Amplification Characteristics of a Coumarin 460-Based Tunable Amplifier. *Shen, J.*, +, *JPHOT April 2020 1501908*

An Erbium Fiber Laser With Single-Frequency Oscillation and Wavelength-Upconverted Output. *Yeh, C.*, +, *JPHOT Oct. 2020 7102807*

Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. *Li, K.*, +, *JPHOT Oct. 2020 1503811*

Carrier-Envelope Offset Frequency Stabilization of a Thin-Disk Laser Oscillator via Depletion Modulation. *Andrade, J.R.C.*, +, *JPHOT April 2020 1500609*

- Cladding-Pumped Erbium-Ytterbium Co-Doped Fiber Amplifier With Dual-Wavelength Auxiliary Signal Injection of 1030 and 1040 nm. *Wei, S., +, JPHOT April 2020 1501509*
- Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser. *Huang, H., +, JPHOT June 2020 1503008*
- Design of Partially Suspended Silicon Nitride Slot Waveguides for Efficient Forward Stimulated Brillouin Scattering. *Wang, K., +, JPHOT Aug. 2020 4501211*
- Dissipative Soliton Resonance in an All-Polarization Maintaining Fiber Laser With a Nonlinear Amplifying Loop Mirror. *Gong, Q., +, JPHOT June 2020 1502708*
- Distributed Birefringence Measurement of a Polarization-Maintaining Fiber With an Extended Range Based on an Enhanced Brillouin Dynamic Grating. *Jiang, T., +, JPHOT Aug. 2020 7102607*
- Efficient and Tunable 1.6- μm MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO₄/YVO₄ Raman Laser. *Zhao, L., +, JPHOT Feb. 2020 1500107*
- Entanglement of Microwave and Optical Fields Using Electrical Capacitor Loaded With Plasmonic Graphene Waveguide. *Qasymeh, M., +, JPHOT April 2020 7500212*
- Environmentally Stable 1.56- μm Femtosecond Laser System With Discontinuous Selectable Repetition Rate. *Fu, H., +, JPHOT June 2020 1502507*
- Experimental Investigations on TMI and IM-FWM in Distributed Side-Pumped Fiber Amplifier. *Chen, H., +, JPHOT June 2020 1502413*
- Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K., +, JPHOT Feb. 2020 1500409*
- Generation of 1.8-W Average Power From a Diode-Pumped Femtosecond Rotary Nd:Glass Disk Laser. *Gong, L., +, JPHOT Feb. 2020 1500306*
- Generation of Flat-Top Q-Switched Envelope Dissipative Soliton Resonance Pulse in Passively Mode-Locked Fiber Laser. *Han, L., +, JPHOT April 2020 7101508*
- Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber. *Li, G., +, JPHOT April 2020 1501009*
- High Average Power Diode-Side-Pumped Intracavity Terahertz Parametric Source Based on Stimulated Polariton Scattering in RbTiOPO₄ Crystal. *Gao, F., +, JPHOT April 2020 1400109*
- High Power Ho:YAP Laser With 107 W of Output Power at 2117 nm. *Tang, J., +, JPHOT April 2020 1501107*
- High-Power Femtosecond Pulse Generation From an All-Fiber Er-Doped Chirped Pulse Amplification System. *Wei, R., +, JPHOT April 2020 3200208*
- High-Power High-Repetition-Rate Tunable Yellow Light Generation by an Intracavity-Frequency-Doubled Singly Resonant Optical Parametric Oscillator. *Sun, B., +, JPHOT June 2020 1502310*
- L-band Wavelength-Switchable Dissipative Soliton Resonance Er-doped Fiber Laser. *Liu, S., +, JPHOT April 2020 1501206*
- Lead Sulfide Saturable Absorber Based Passively Mode-Locked Tm-Doped Fiber Laser. *Liu, F., +, JPHOT April 2020 1500910*
- Method for Receiving Weak Microwave Photonics Signals Based on Electro-Optical Up-Conversion. *He, Q., +, JPHOT Aug. 2020 5501910*
- Nonlinear Bound States in the Continuum of Etchless Lithium Niobate Metasurfaces. *Yang, Q., +, JPHOT Oct. 2020 4601209*
- On-Chip All-Optical Tunable Filter With High Tuning Efficiency. *Chen, M., +, JPHOT April 2020 7800510*
- Quadratic Soliton Combs in Doubly Resonant Dispersive Optical Parametric Oscillators. *Sheng, A., +, JPHOT April 2020 6100607*
- Spatial Beam Self-Cleaning in Tapered Yb-Doped GRIN Multimode Fiber With Decelerating Nonlinearity. *Niang, A., +, JPHOT April 2020 6500308*
- Spatial-Dependent Hamiltonian Formulation of Cross-Mode Modulation. *Yang, H., +, JPHOT Feb. 2020 6100208*
- Stability Analysis and Transient Attraction Dynamics of Flat-Top Solitons via Modulated Driving Fields in Normal Dispersion Microcavity. *Jin, X., +, JPHOT Oct. 2020 1503915*
- Stimulated Brillouin Scattering by Dual Lasers Pumping in WGM Microcavities. *Chen, Z., +, JPHOT Dec. 2020 6101108*
- Tunable Electro- and All-Optical Switch Based on Epsilon-Near-Zero Metasurface. *Xie, Z.T., +, JPHOT Aug. 2020 4501510*
- Tunable Multi-Wavelength Bright-Dark and Dark-Bright Pulse Pairs Fiber Lasers. *Xin, Y., +, JPHOT Dec. 2020 7103209*
- Ultrasensitive Sizing Sensor for a Single Nanoparticle in a Hybrid Nonlinear Microcavity. *Li, L., +, JPHOT June 2020 4500708*
- Ultraviolet-Extended Supercontinuum Generation in Zero-Dispersion Wavelength Decreasing Photonic Crystal Fibers. *Bi, W., +, JPHOT Dec. 2020 3200608*
- Watt-Level Continuous-Wave Mode-Locked Nd:YVO₄ Laser With ReSe₂ Saturable Absorber. *Xue, Y., +, JPHOT Oct. 2020 1503710*
- Optical radar**
- Dual Gm-APD Polarization Lidar to Acquire the Depth Image of Shallow Semitransparent Media With a Wide Laser Pulse. *Xu, L., +, JPHOT Oct. 2020 6803310*
- Optical receivers**
- A Method to Reduce the Algorithm Complexity of the Single-Photodiode-per-Polarization Coherent Receiver. *Zhou, K., +, JPHOT Feb. 2020 7100210*
- A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation. *Zhang, H., +, JPHOT Feb. 2020 5500208*
- A Tunable Energy Signal for Intensity Modulation and Direct Detection Systems: Theory, Simulations, and Experiments. *Vejanla, K., +, JPHOT Feb. 2020 7900412*
- Blind Frequency Offset Estimation Based on Phase Rotation For Coherent Transceiver. *Tan, Q., +, JPHOT April 2020 7902212*
- Characterization of Field of View in Visible Light Communication Systems for Intelligent Transportation Systems. *Seminara, M., +, JPHOT Aug. 2020 7903816*
- Comparison of Geometrically Shaped and Probabilistically Shaped Bit-Loading DMT for Optical Interconnect System. *Ding, J., +, JPHOT April 2020 7201008*
- Demonstration of 4 \times 100 Gbit/s PAM-4 Transmission Over 40 km in an IM/DD System Based on Narrow Band DMLs. *Wang, K., +, JPHOT June 2020 7201908*
- Design of the Real-Time Single-Photodiode Digital Coherent Receiver Suitable for Free Space Optical Communication. *Zhou, K., +, JPHOT Oct. 2020 7905412*
- Dynamic Physical-Layer Secured Link in a Mobile MIMO VLC System. *Younus, O.I., +, JPHOT June 2020 7902814*
- Enhancing Secrecy Capacity in FSO Links via MISO Systems Through Turbulence-Induced Fading Channels With Misalignment Errors. *Boluda-Ruiz, R., +, JPHOT Aug. 2020 7903313*
- Fast Detection and Tracking of a Moving Transmitter via Visible Light Communication Link. *Ahmed, M., +, JPHOT Aug. 2020 7904414*
- Generalized Likelihood Block Detection for SPAD-Based Underwater VLC System. *Ji, Y., +, JPHOT Feb. 2020 7900510*
- Hybrid QKD Protocol Outperforming Both DV- and CV-QKD Protocols. *Djordjevic, I.B., JPHOT Feb. 2020 7600108*
- Indoor High Precision Three-Dimensional Positioning System Based on Visible Light Communication Using Improved Hybrid Bat Algorithm. *Chen, Y., +, JPHOT Oct. 2020 6802513*
- Measurement Approaches and Implementation of a Fading Characterization Tester for Evaluating Optical Turbulent Channels. *Li, Y., +, JPHOT Dec. 2020 7906915*
- Nonlinearity Mitigation of Multi-Level Optical Transmission Using Spectrum-Split Digital Pre-Distortion. *Lim, G., +, JPHOT Feb. 2020 7200208*
- OE-CAM: A Hybrid Opto-Electronic Content Addressable Memory. *Alkaban, Y., +, JPHOT April 2020 6600114*
- On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference. *Erdogan, E., +, JPHOT Feb. 2020 7900313*
- Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F., +, JPHOT Aug. 2020 7904512*

Phase Alignment With Minimum Complexity for Equal Gain Combining in Multi-Aperture Free-Space Digital Coherent Optical Communication Receivers. *Tu, Y., +, JPHOT April 2020 7901410*

Prediction Algorithm of Key Design Parameters for Space Chaotic Optical Communication System. *Li, M., +, JPHOT Aug. 2020 7904308*

Terahertz-Wave Generation Based on Optical Frequency Comb and Single Mach-Zehnder Modulator. *Yu, J., +, JPHOT Feb. 2020 7900808*

Wideband and Ambiguous-Free RF Channelizer Assisted Jointly by Spacing and Profile of Optical Frequency Comb. *Lu, X., +, JPHOT June 2020 5500911*

Optical resonators

A Multipurpose and Highly-Compact Plasmonic Filter Based on Metal-Insulator-Metal Waveguides. *Ebadi, S.M., +, JPHOT June 2020 4800309*

Air-Mode Photonic Crystal Micro-Ring Resonator With Enhanced Quality Factor for Refractive Index Sensing. *Xu, Y., +, JPHOT June 2020 6601111*

All-Silicon Energy-Efficient Optical Diode Using Opto-Mechanical Microring Resonators. *Xu, L., +, JPHOT June 2020 4501009*

Dynamic Responses of Cylindrical Whispering Gallery Mode Revealed by Axial Liquid Disturbance. *Zhao, H., +, JPHOT June 2020 7102009*

Etched Silicon-on-Insulator Microring Resonator for Ultrasound Measurement. *Yang, W., +, JPHOT April 2020 6801409*

High-Performance Microring Resonator Ge-on-Si Photodetectors by Optimizing Absorption Layer Length. *Cui, J., +, JPHOT Aug. 2020 6802208*

Integrated Photonic Platform for Robust Differential Refractive Index Sensor. *Moras, A.L., +, JPHOT Oct. 2020 6802910*

Magnetic Fluid Infiltrated Microbottle Resonator Sensor With Axial Confined Mode. *Hou, F., +, JPHOT Oct. 2020 6802709*

Method for Receiving Weak Microwave Photonics Signals Based on Electro-Optical Up-Conversion. *He, Q., +, JPHOT Aug. 2020 5501910*

Numerical Investigation of Parametric Frequency Dependence in the Modeling of Octave-Spanning Kerr Frequency Combs. *Zhao, Y., +, JPHOT April 2020 6600509*

On-Chip All-Optical Tunable Filter With High Tuning Efficiency. *Chen, M., +, JPHOT April 2020 7800510*

On-Chip Low-Power Gray Code Generation Based on Opto-Mechanical Microring Resonators. *Liu, L., +, JPHOT June 2020 4500312*

Polarization Coupling Based on Faraday Effect in Whispering-Gallery-Mode Resonator. *Nie, Y., +, JPHOT April 2020 5300107*

Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength. *Li, J., +, JPHOT Aug. 2020 6601309*

Refractive Index Nanosensor With Simple Structure Based on Fano Resonance. *Guo, J., +, JPHOT Aug. 2020 4800710*

Tunable and Multiple Plasmon-Induced Transparency in a Metasurface Comprised of Silver S-Shaped Resonator and Rectangular Strip. *Bilal, R.M.H., +, JPHOT June 2020 4500913*

Tunable Electromagnetically Induced Transparency-Like Spectrum in Lithium Niobate on Insulator Platform With Narrow Linewidth. *Yu, W., +, JPHOT Oct. 2020 2700308*

Tunable Germanium-on-Insulator Band-Stop Optical Filter Using Thermo-Optic Effect. *Ho, C.P., +, JPHOT April 2020 6600307*

Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V., +, JPHOT Oct. 2020 4800913*

Weak One-Dimensional Field Confinement Silica Waveguides. *Zhao, C., +, JPHOT Aug. 2020 2200511*

Optical retarders

Irrotational Nanobricks Based High-Efficiency Polarization-Independence Metasurfaces. *Wang, W., +, JPHOT Aug. 2020 4501108*

Switchable Quarter-Wave Plate and Half-Wave Plate Based on Phase-Change Metasurface. *Li, Y., +, JPHOT April 2020 4600410*

Optical rotation

Photonic Generation of Triangular-Shaped Waveform With Tunable Symmetry Factor Based on Two Single-Drive Mach-Zehnder Modulator. *Wang, C., +, JPHOT Dec. 2020 5502411*

Optical saturable absorption

An Erbium Fiber Laser With Single-Frequency Oscillation and Wavelength-Upconverted Output. *Yeh, C., +, JPHOT Oct. 2020 7102807*

Broadband Passive Photonic Diodes With the Saturable Absorption in Antimony Thin Film. *Zhang, J., +, JPHOT Feb. 2020 6100307*

Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser. *Huang, H., +, JPHOT June 2020 1503008*

Environmentally Stable 1.56- μm Femtosecond Laser System With Discontinuous Selectable Repetition Rate. *Fu, H., +, JPHOT June 2020 1502507*

Generation of 1.8-W Average Power From a Diode-Pumped Femtosecond Rotary Nd:Glass Disk Laser. *Gong, L., +, JPHOT Feb. 2020 1500306*

Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber. *Li, G., +, JPHOT April 2020 1501009*

Lead Sulfide Saturable Absorber Based Passively Mode-Locked Tm-Doped Fiber Laser. *Liu, F., +, JPHOT April 2020 1500910*

Self-Defocusing of Light in Ethanol Around 1550 nm. *Yi, J., +, JPHOT Feb. 2020 6100408*

Simulation for Generation of Several Types of Pulses in an Yb-Doped Mode-Locked Fiber Laser. *Cui, Y., +, JPHOT Dec. 2020 1504413*

Watt-Level Continuous-Wave Mode-Locked Nd:YVO₄ Laser With ReSe₂ Saturable Absorber. *Xue, Y., +, JPHOT Oct. 2020 1503710*

Optical saturation

A Sub-kHz Narrow-Linewidth, and Hundred-mW High-Output-Power Silicon-Based Er Silicate Laser With Hybrid Pump and Signal Co-Resonant Cavity. *Zhou, P., +, JPHOT Feb. 2020 1500212*

Prediction Algorithm of Key Design Parameters for Space Chaotic Optical Communication System. *Li, M., +, JPHOT Aug. 2020 7904308*

Optical self-focusing

Self-Defocusing of Light in Ethanol Around 1550 nm. *Yi, J., +, JPHOT Feb. 2020 6100408*

Optical sensors

Air-Mode Photonic Crystal Micro-Ring Resonator With Enhanced Quality Factor for Refractive Index Sensing. *Xu, Y., +, JPHOT June 2020 6601111*

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K., +, JPHOT Oct. 2020 2200611*

Etched Silicon-on-Insulator Microring Resonator for Ultrasound Measurement. *Yang, W., +, JPHOT April 2020 6801409*

High-Sensitive Refractive Index Sensing Enabled by Topological Charge Evolution. *Lv, J., +, JPHOT Oct. 2020 4501610*

Integrated Photonic Platform for Robust Differential Refractive Index Sensor. *Moras, A.L., +, JPHOT Oct. 2020 6802910*

Modelization and Characterization of a CMOS Camera as an Optical Real-Time Oscilloscope. *Cossu, G., +, JPHOT Dec. 2020 7906313*

Refractive Index Nanosensor With Simple Structure Based on Fano Resonance. *Guo, J., +, JPHOT Aug. 2020 4800710*

Simultaneous Mid-Infrared Gas Sensing and Upconversion Based on Third Harmonic Generation in Cascaded Waveguides. *Pan, J., +, JPHOT April 2020 6800912*

Ultrasensitive Sizing Sensor for a Single Nanoparticle in a Hybrid Nonlinear Microcavity. *Li, L., +, JPHOT June 2020 4500708*

Optical signal detection

AquaE-lite Hybrid-Solar-Cell Receiver-Modality for Energy-Autonomous Terrestrial and Underwater Internet-of-Things. *Kong, M., +, JPHOT Aug. 2020 7904713*

Demonstration of 4 × 100 Gbit/s PAM-4 Transmission Over 40 km in an IM/DD System Based on Narrow Band DMLs. *Wang, K., +, JPHOT June 2020 7201908*

Impact of Analog and Digital Pre-Emphasis on the Signal-to-Noise Ratio of Bandwidth-Limited Optical Transceivers. *Zhou, Z., +, JPHOT April 2020 7200712*

Modelization and Characterization of a CMOS Camera as an Optical Real-Time Oscilloscope. *Cossu, G., +, JPHOT Dec. 2020 7906313*

Optical signal processing

Highly Nonlinear Organic-Silicon Slot Waveguide for Ultrafast Multimode All-Optical Logic Operations. *Wang, Y., +, JPHOT Dec. 2020 3200712*

Integrated Optical Power Splitter With Continuously Adjustable Power Splitting Ratio. *Liao, S., +, JPHOT Dec. 2020 7801513*

Optical solitons

- A Chaotic State in the Transition From Single Toward Multiple Pulse for Soliton Fiber Lasers. *Du, Y.*, +, *JPHOT April 2020 3200112*
- Broadband Dispersion-Managed Dissipative Soliton and Structural Soliton Molecules in a Slight-Normal Dispersion Fiber Laser. *Wang, X.*, +, *JPHOT Dec. 2020 3200510*
- Dissipative Soliton Resonance in an All-Polarization Maintaining Fiber Laser With a Nonlinear Amplifying Loop Mirror. *Gong, Q.*, +, *JPHOT June 2020 1502708*
- Environmentally Stable 1.56- μm Femtosecond Laser System With Discontinuous Selectable Repetition Rate. *Fu, H.*, +, *JPHOT June 2020 1502507*
- Evolution of Soliton Rain in a Tm-doped Passive Mode-Locked All-Fiber Laser. *Wang, F.*, +, *JPHOT Aug. 2020 1503408*
- Formation and Evolution of Soliton in Two-Mode Fiber Laser. *Zheng, Y.*, +, *JPHOT Aug. 2020 3200408*
- Generation of 1.8-W Average Power From a Diode-Pumped Femtosecond Rotary Nd:Glass Disk Laser. *Gong, L.*, +, *JPHOT Feb. 2020 1500306*
- Generation of Flat-Top Q-Switched Envelope Dissipative Soliton Resonance Pulse in Passively Mode-Locked Fiber Laser. *Han, L.*, +, *JPHOT April 2020 7101508*
- L-band Wavelength-Switchable Dissipative Soliton Resonance Er-doped Fiber Laser. *Liu, S.*, +, *JPHOT April 2020 1501206*
- Lead Sulfide Saturable Absorber Based Passively Mode-Locked Tm-Doped Fiber Laser. *Liu, F.*, +, *JPHOT April 2020 1500910*
- Quadratic Soliton Combs in Doubly Resonant Dispersive Optical Parametric Oscillators. *Sheng, A.*, +, *JPHOT April 2020 6100607*
- Simulation for Generation of Several Types of Pulses in an Yb-Doped Mode-Locked Fiber Laser. *Cui, Y.*, +, *JPHOT Dec. 2020 1504413*
- Stability Analysis and Transient Attraction Dynamics of Flat-Top Solitons via Modulated Driving Fields in Normal Dispersion Microcavity. *Jin, X.*, +, *JPHOT Oct. 2020 1503915*
- Vectorial Nature in Nonlinear Multimode Interference Based Ultrafast Fiber Lasers. *Xia, R.*, +, *JPHOT April 2020 1501310*

Optical switches

- A Hybrid Algorithm for Multi-Beam Steering of LCOS-Based Wavelength Selective Switch. *Gao, Y.*, +, *JPHOT June 2020 7903011*
- All-Fiber Laser With Agile Mode-Switching Capability Through Intra-Cavity Conversion. *Wu, H.*, +, *JPHOT April 2020 1500709*
- Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits. *Yu, X.*, +, *JPHOT Oct. 2020 2200708*
- Experimental Investigations on Polarization Switching and Bistability in a 1550 nm VCSEL Subject to Orthogonal Optical Injection With Time-Varying Injection Power. *Wang, Q.*, +, *JPHOT Oct. 2020 1504108*
- Experimental Study of Hollow-Core Photonic Crystal Fiber Optical Switching Effect in Liquid Nitrogen Environment. *Song, N.*, +, *JPHOT June 2020 7101806*
- Full-Duplex Self-Recovery Optical Fibre Transport System Based on a Passive Single-Line Bidirectional Optical Add/Drop Multiplexer. *Li, C.*, +, *JPHOT Oct. 2020 7202310*
- Hybrid QKD Protocol Outperforming Both DV- and CV-QKD Protocols. *Djordjevic, I.B.*, *JPHOT Feb. 2020 7600108*
- Improve The Capacity Of Data Transmission In Orbital Angular Momentum Multiplexing By Adjusting Link Structure. *Zhao, L.*, +, *JPHOT June 2020 5501111*
- Integrated Optical Power Splitter With Continuously Adjustable Power Splitting Ratio. *Liao, S.*, +, *JPHOT Dec. 2020 7801513*
- K-Band Centralized Cost-Effective All-Optical Sensing Signal Distribution Network. *Esmail, M.A.*, +, *JPHOT Dec. 2020 7202510*
- L-band Wavelength-Switchable Dissipative Soliton Resonance Er-doped Fiber Laser. *Liu, S.*, +, *JPHOT April 2020 1501206*
- Large-Scale Integrated Multi-Lines Optical Phased Array Chip. *Zhang, L.*, +, *JPHOT Aug. 2020 6601208*
- Low Power Consumption Mode Switch Based on Three-Dimensional Polymer Mach-Zehnder Interferometer. *Lv, J.*, +, *JPHOT June 2020 7800810*
- Multi-Antenna GNSS-Over-Fiber Architecture for Extensive Remote Multi-Baseline Network. *Liu, P.*, +, *JPHOT June 2020 5501210*

- Nonlinear Dynamics Induced by Optical Injection in Optical Frequency Combs Generated by Gain-Switching of Laser Diodes. *Quirce, A.*, +, *JPHOT Aug. 2020 1503314*
- On-Chip Low-Power Gray Code Generation Based on Opto-Mechanical Microring Resonators. *Liu, L.*, +, *JPHOT June 2020 4500312*
- Optical Property of Polarization-Maintaining Fiber Taper for Tunable Multi-Wavelength Fiber Laser Generation. *Yuan, F.*, +, *JPHOT Feb. 2020 7100109*
- Real-Time RF Multi-Dimensional Signal Switching Using Polarization-Dependent Optical Mixing. *Liu, Q.*, +, *JPHOT April 2020 5500808*
- Switchable Multi-Wavelength Thulium-Doped Fiber Laser Using Four-Mode Fiber Based Sagnac Loop Filter. *Guo, Y.*, +, *JPHOT April 2020 7100610*
- Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μm Wavelength Band. *Liu, Y.*, +, *JPHOT Aug. 2020 4900308*

Optical testing

- Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits. *Yu, X.*, +, *JPHOT Oct. 2020 2200708*
- Temperature-Dependent Carrier Recombination and Efficiency Droop of AlGaIn Deep Ultraviolet Light-Emitting Diodes. *Peng, Z.*, +, *JPHOT Feb. 2020 8200108*
- The Effect of Bias and Frequency on Amplitude to Phase Conversion of Photodiodes. *Sun, J.*, +, *JPHOT Aug. 2020 5502010*

Optical time-domain reflectometry

- A POTDR System Based on Dual Sensing Directions. *Xiong, B.*, +, *JPHOT April 2020 7100708*

Optical tomography

- Non-Invasive Optical Screening of *Streptococcus Pneumonia* Based Inflammatory Changes of the Tympanic Membrane and Mastoid Mucosa in Guinea Pig Otitis Media Using Optical Coherence Tomography. *Wijesinghe, R.E.*, +, *JPHOT Aug. 2020 3700611*

Optical tracking

- A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M.*, +, *JPHOT Dec. 2020 7906212*
- Imaging and Tracking Through Scattering Medium With Low Bit Depth Speckle. *Xu, Q.*, +, *JPHOT April 2020 6900807*

Optical transceivers

- A Transceiver Design Based on an Autoencoder Network for Multi-Color VLC Systems. *Zhang, D.*, +, *JPHOT June 2020 7902716*
- Hybrid OFDM-Digital Filter Multiple Access PONs Utilizing Spectrally Overlapped Digital Orthogonal Filtering. *Sankoh, A.*, +, *JPHOT Oct. 2020 7905311*
- Impact of Analog and Digital Pre-Emphasis on the Signal-to-Noise Ratio of Bandwidth-Limited Optical Transceivers. *Zhou, Z.*, +, *JPHOT April 2020 7200712*
- Performance Limits for Fingerprinting-Based Indoor Optical Communication Positioning Systems Exploiting Multipath Reflections. *Hosseiniyanfar, H.*, +, *JPHOT Aug. 2020 7903416*
- Study on the k-Connectivity of UV Communication Network Under the Node Distribution of RWP Mobility Model in the Arbitrary Polygon Area. *Li, C.*, +, *JPHOT Aug. 2020 7903912*

Optical transfer function

- An Image-Based Alignment Errors Correction Method for Segmented Fresnel Primary Mirror. *Zhu, L.*, +, *JPHOT April 2020 6900614*
- Restoration of Out-of-Focus Fluorescence Microscopy Images Using Learning-Based Depth-Variant Deconvolution. *He, D.*, +, *JPHOT April 2020 3900113*

Optical transmitters

- A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation. *Zhang, H.*, +, *JPHOT Feb. 2020 5500208*
- A Robust Reference Optical Spectrum Based in-Band OSNR Monitoring Method Suitable for Flexible Optical Networks. *Zhong, Y.*, +, *JPHOT June 2020 7201310*
- A Tunable Energy Signal for Intensity Modulation and Direct Detection Systems: Theory, Simulations, and Experiments. *Vejanjala, K.*, +, *JPHOT Feb. 2020 7900412*

- Enhancement of SOA-Based Scintillation Mitigation by PS-OOK Transmission in FSO Communication. *Hong, Y.*, +, *JPHOT Aug. 2020 7903510*
- Enhancing Secrecy Capacity in FSO Links via MISO Systems Through Turbulence-Induced Fading Channels With Misalignment Errors. *Boluda-Ruiz, R.*, +, *JPHOT Aug. 2020 7903313*
- Fast Detection and Tracking of a Moving Transmitter via Visible Light Communication Link. *Ahmed, M.*, +, *JPHOT Aug. 2020 7904414*
- Improve The Capacity Of Data Transmission In Orbital Angular Momentum Multiplexing By Adjusting Link Structure. *Zhao, L.*, +, *JPHOT June 2020 5501111*
- Light-Emitting Commutating Diodes for Optical Wireless Communications Within LED Drivers. *Pawlikowski, W.*, +, *JPHOT Oct. 2020 7905111*
- Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F.*, +, *JPHOT Aug. 2020 7904512*
- Terahertz-Wave Generation Based on Optical Frequency Comb and Single Mach-Zehnder Modulator. *Yu, J.*, +, *JPHOT Feb. 2020 7900808*
- Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J.*, +, *JPHOT June 2020 5501414*

Optical tuning

- A Multipurpose and Highly-Compact Plasmonic Filter Based on Metal-Insulator-Metal Waveguides. *Ebadi, S.M.*, +, *JPHOT June 2020 4800309*
- Nanoscale Noncoplanar Beam Splitters With Tunable Split Ratio. *Tian, S.*, +, *JPHOT April 2020 4600309*
- On-Chip All-Optical Tunable Filter With High Tuning Efficiency. *Chen, M.*, +, *JPHOT April 2020 7800510*
- Photonic Generation of Triangular-Shaped Waveform With Tunable Symmetry Factor Based on Two Single-Drive Mach-Zehnder Modulator. *Wang, C.*, +, *JPHOT Dec. 2020 5502411*
- Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays. *Wang, Z.*, +, *JPHOT June 2020 4800410*
- Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μm Wavelength Band. *Liu, Y.*, +, *JPHOT Aug. 2020 4900308*
- Tunable and Multiple Plasmon-Induced Transparency in a Metasurface Comprised of Silver S-Shaped Resonator and Rectangular Strip. *Bilal, R.M.H.*, +, *JPHOT June 2020 4500913*
- Tunable and Reconfigurable Dual-Band Chiral Metamirror. *Fan, J.*, +, *JPHOT Oct. 2020 4601108*
- Tunable Electro- and All-Optical Switch Based on Epsilon-Near-Zero Metasurface. *Xie, Z.T.*, +, *JPHOT Aug. 2020 4501510*
- Tunable Electromagnetically Induced Transparency-Like Spectrum in Lithium Niobate on Insulator Platform With Narrow Linewidth. *Yu, W.*, +, *JPHOT Oct. 2020 2700308*
- Tunable Germanium-on-Insulator Band-Stop Optical Filter Using Thermo-Optic Effect. *Ho, C.P.*, +, *JPHOT April 2020 6600307*
- Wide-Range Tunable Narrow Band-Stop Filter Based on Bilayer Graphene in the Mid-Infrared Region. *Wang, Y.*, +, *JPHOT Aug. 2020 7801009*
- Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P.*, +, *JPHOT Dec. 2020 6602409*

Optical vortices

- CNN-Based Phase Matching for the OAM Mode Selection in Turbulence Heterodyne Coherent Mitigation Links. *Yang, C.*, +, *JPHOT Dec. 2020 7905913*
- Detection of Polarization and Topological Charge Based on Multidimensional Field of Metasurface. *Luan, J.*, +, *JPHOT Dec. 2020 4601510*
- Generation of Optical Vortices With Polarization-Insensitive Metasurfaces. *Shen, Z.*, +, *JPHOT Aug. 2020 4601010*
- Generation of Spiral Spin Density Vectors With A Circularly Polarized, Vortex Beam. *Pang, X.*, +, *JPHOT April 2020 6500514*
- Generation of Terawatt-Scale Vortex Pulses Based on Optical Parametric Chirped-Pulse Amplification. *Pan, W.*, +, *JPHOT June 2020 1502608*
- Hybrid Angular Gradient Phase Grating for Measuring the Orbital Angular Momentum of Perfect Optical Vortex Beams. *Chu, C.*, +, *JPHOT June 2020 7902409*

- Improve The Capacity Of Data Transmission In Orbital Angular Momentum Multiplexing By Adjusting Link Structure. *Zhao, L.*, +, *JPHOT June 2020 5501111*
- Irrational Nanobricks Based High-Efficiency Polarization-Independence Metasurfaces. *Wang, W.*, +, *JPHOT Aug. 2020 4501108*
- Lommel-Gaussian Pulsed Beams Carrying Orbital Angular Momentum Propagation in Asymmetric Oceanic Turbulence. *Li, Y.*, +, *JPHOT Feb. 2020 7900915*
- Modeling and Optimization of Vortex Modes Propagation in Rectangular Dielectric Waveguides. *Lyubopytov, V.S.*, +, *JPHOT Feb. 2020 6100117*
- Optical-Stark Induced Distortions in Vortex Momentum Distributions of p-Orbital Electrons of Neon Atoms. *He, Y.*, +, *JPHOT Dec. 2020 6101209*
- Stable Excitation of Orbital Angular Momentum States in Air-Core Fiber Seeded by an Integrated Optical Vortex Beam Emitter. *Wang, J.*, +, *JPHOT Aug. 2020 6601408*
- The Simulation of Vortex Modes in Twisted Few-Mode Fiber With Inverse-Parabolic Index Profile. *Zhang, Z.*, +, *JPHOT June 2020 7101908*

Optical waveguide filters

- A Mid-Infrared Dual-Band Filter With Ultra-High Resolving Power. *He, X.*, +, *JPHOT Aug. 2020 2200410*
- A Multipurpose and Highly-Compact Plasmonic Filter Based on Metal-Insulator-Metal Waveguides. *Ebadi, S.M.*, +, *JPHOT June 2020 4800309*
- Integrated Optical Delay Line Based on a Loopback Arrayed Waveguide Grating for Radio-frequency Filtering. *Wang, X.*, +, *JPHOT June 2020 6600911*
- Sensitivity-Based Structural Optimal Design With Bi-Directional Beam Propagation Method for Photonic Devices in High-Index-Contrast Waveguides. *Iguchi, A.*, +, *JPHOT Oct. 2020 6602111*
- Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V.*, +, *JPHOT Oct. 2020 4800913*

Optical waveguide theory

- A Mid-Infrared Dual-Band Filter With Ultra-High Resolving Power. *He, X.*, +, *JPHOT Aug. 2020 2200410*
- Bias-Free Silicon-Based Optical Single-Sideband Modulator Without 2nd-Order Sideband. *Keshavarz, H.*, +, *JPHOT Aug. 2020 5501816*
- Design and Analysis of Asymmetric Capsule-Shaped Metallic Cavities for Unidirectional Waveguide Coupling. *Zhang, B.*, +, *JPHOT Dec. 2020 2201008*
- Design of Partially Suspended Silicon Nitride Slot Waveguides for Efficient Forward Stimulated Brillouin Scattering. *Wang, K.*, +, *JPHOT Aug. 2020 4501211*
- Electro-Absorption Optical Modulator Based on Graphene-Buried Polymer Waveguides. *Lian, T.*, +, *JPHOT Aug. 2020 6601610*
- Entanglement of Microwave and Optical Fields Using Electrical Capacitor Loaded With Plasmonic Graphene Waveguide. *Qasymeh, M.*, +, *JPHOT April 2020 7500212*
- High-Performance Microring Resonator Ge-on-Si Photodetectors by Optimizing Absorption Layer Length. *Cui, J.*, +, *JPHOT Aug. 2020 6802208*
- Inverse Design of a Taper by Scatter Search Metaheuristic. *Franca-Vieira, L.*, +, *JPHOT Aug. 2020 4501409*
- Mode Division Multiplexing Based on Supermodes in Densely Packed Uniform Waveguide Array (DPUWA). *Chen, K.*, +, *JPHOT April 2020 7901810*
- Sensitivity-Based Structural Optimal Design With Bi-Directional Beam Propagation Method for Photonic Devices in High-Index-Contrast Waveguides. *Iguchi, A.*, +, *JPHOT Oct. 2020 6602111*
- Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides. *Zhang, B.*, +, *JPHOT April 2020 6600610*
- The Design of CMOS-Compatible Plasmonic Waveguides for Intra-Chip Communication. *Liu, Y.*, +, *JPHOT Oct. 2020 4800810*
- Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V.*, +, *JPHOT Oct. 2020 4800913*

Optical waveguides

- A Multipurpose and Highly-Compact Plasmonic Filter Based on Metal-Insulator-Metal Waveguides. *Ebadi, S.M.*, +, *JPHOT June 2020 4800309*

- All-Silicon Energy-Efficient Optical Diode Using Opto-Mechanical Microring Resonators. *Xu, L., +, JPHOT June 2020 4501009*
- Backward-Emitting Silicon Nitride Optical Phased Array Enabling Efficient Wavelength-Tuned Beam Steering. *Im, C., +, JPHOT Oct. 2020 6601910*
- Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L., +, JPHOT Oct. 2020 6601906*
- Copying a Plasmonic Signal From an Optical Signal. *Koo, S., +, JPHOT Aug. 2020 4800607*
- Design of Silicon Photonic Structures for Multi-Site, Multi-Spectral Optogenetics in the Deep Brain. *Nazempour, R., +, JPHOT Dec. 2020 4200107*
- Dual-Mode GVD Tailoring in a Convex Waveguide. *Chen, W., +, JPHOT Aug. 2020 6601506*
- Electro-absorption and Electro-optic Characterization of L-Band InAs/InP Quantum-dash Waveguide. *Alkharaji, E., +, JPHOT June 2020 6601010*
- Enhanced Nonlinearity and Engineered Anomalous Dispersion in TeO₂-coated Si₃N₄ Waveguides. *Mbonde, H.M., +, JPHOT April 2020 2200210*
- High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*
- High-Speed Optical-Beam Scanning by an Optical Phased Array Using Electro-Optic Polymer Waveguides. *Hirano, Y., +, JPHOT April 2020 6600807*
- Interleaved Subwavelength Gratings Strip Waveguide Based TM Pass Polarizer on SOI Platform. *Xu, Z., +, JPHOT April 2020 4900110*
- Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y., +, JPHOT April 2020 2400207*
- Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays. *Wang, Z., +, JPHOT June 2020 4800410*
- Polarization Coupling of X-Cut Thin Film Lithium Niobate Based Waveguides. *Wang, J., +, JPHOT June 2020 2200310*
- Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength. *Li, J., +, JPHOT Aug. 2020 6601309*
- Refractive Index Nanosensor With Simple Structure Based on Fano Resonance. *Guo, J., +, JPHOT Aug. 2020 4800710*
- Resonant Excitation Analysis on Asymmetrical Lateral Leakage of Light in Finite Zero-Contrast Grating Mirror. *Sang, T., +, JPHOT April 2020 4500111*
- Surface Micro-Reflector Array for Augmented Reality Display. *Yan, Z., +, JPHOT April 2020 7000209*
- Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides. *Zhang, B., +, JPHOT April 2020 6600610*
- Tunable Electromagnetically Induced Transparency-Like Spectrum in Lithium Niobate on Insulator Platform With Narrow Linewidth. *Yu, W., +, JPHOT Oct. 2020 2700308*
- Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P., +, JPHOT Dec. 2020 6602409*
- Optical wavelength conversion**
- K-Band Centralized Cost-Effective All-Optical Sensing Signal Distribution Network. *Esmail, M.A., +, JPHOT Dec. 2020 7202510*
- Optical Self-Interference Cancellation With Frequency Down-Conversion Based on Cascade Modulator. *Wang, J., +, JPHOT Dec. 2020 5502708*
- Phase-Matched Mid-Infrared Difference Frequency Generation Using a Nanostructured Gallium Arsenide Metamaterial With Nanoholes. *Otman, N.A., +, JPHOT June 2020 5900110*
- Optimization**
- Conveyor X-Ray Tomosynthesis Imaging With Optimized Structured Sequential Illumination. *Ma, X., +, JPHOT Oct. 2020 3400217*
- Freeform Surface Graded Optimization of Deformable Mirrors in Integrated Zoom and Image Stabilization System Through Vectorial Ray Tracing and Image Point Freezing Method. *Ning, Y., +, JPHOT Feb. 2020 6900316*
- Indoor High Precision Three-Dimensional Positioning System Based on Visible Light Communication Using Improved Hybrid Bat Algorithm. *Chen, Y., +, JPHOT Oct. 2020 6802513*
- Inverse Design of a Taper by Scatter Search Metaheuristic. *Franca-Vieira, L., +, JPHOT Aug. 2020 4501409*
- Model-Aware End-to-End Learning for SISO Optical Wireless Communication Over Poisson Channel. *Si-Ma, L., +, JPHOT Dec. 2020 7907115*
- Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas. *Miglani, R., +, JPHOT Aug. 2020 7904621*
- Nanowire Grid Reflecting Polarizers for Ultraviolet Applications. *Zhao, Z., +, JPHOT Dec. 2020 4502011*
- Optimizing Handover Parameters by Q-Learning for Heterogeneous Radio-Optical Networks. *Shao, S., +, JPHOT Feb. 2020 7900615*
- Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F., +, JPHOT Aug. 2020 7904512*
- Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D., +, JPHOT Dec. 2020 5502814*
- Sensitivity-Based Structural Optimal Design With Bi-Directional Beam Propagation Method for Photonic Devices in High-Index-Contrast Waveguides. *Iguchi, A., +, JPHOT Oct. 2020 6602111*
- Vertical Second Harmonic Generation in Asymmetric Dielectric Nanoantennas. *Rocco, D., +, JPHOT June 2020 4500507*
- Weak-Seed Induced Enhancement of Stimulated Raman Scattering in Distributed Side-Pumped Yb-Doped Fiber Amplifiers. *Chen, H., +, JPHOT Dec. 2020 7103412*
- Optoelectronic devices**
- Grading Optimization for Dimensions-Reduced Orthogonal Volterra DPD. *Faig, H., +, JPHOT Feb. 2020 7200310*
- Tunable Photonic Microwave Up-Converter Using Opto-Electronic Oscillator Based on Monolithic Integrated Three-Section Laser. *Meng, X., +, JPHOT Dec. 2020 5502909*
- Organic compounds**
- Near-Infrared Supercontinuum and Ultrashort Pulses Generated Based on Phase-Mismatched Cascaded Frequency Conversion in DSTMS Crystal. *Qian, J., +, JPHOT June 2020 3200306*
- Self-Defocusing of Light in Ethanol Around 1550 nm. *Yi, J., +, JPHOT Feb. 2020 6100408*
- Oscillators**
- Tunable Photonic Microwave Up-Converter Using Opto-Electronic Oscillator Based on Monolithic Integrated Three-Section Laser. *Meng, X., +, JPHOT Dec. 2020 5502909*
- Oscilloscopes**
- Modelization and Characterization of a CMOS Camera as an Optical Real-Time Oscilloscope. *Cossu, G., +, JPHOT Dec. 2020 7906313*
- Oxidation**
- Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K., +, JPHOT Oct. 2020 2200611*
- Oxygen**
- EWT-ASG: Empirical Wavelet Transform With Adaptive Savitzky-Golay Filtering for TDLAS. *He, J., +, JPHOT June 2020 7800712*

P

P-n junctions

- 3D Simple Monte Carlo Statistical Model for GaAs Nanowire Single Photon Avalanche Diode. *Xie, S., +, JPHOT Aug. 2020 6802008*

Partial discharge measurement

- Gold-Diaphragm Based Fabry-Perot Ultrasonic Sensor for Partial Discharge Detection and Localization. *Zhang, W., +, JPHOT June 2020 6801612*

Particle swarm optimization

- Optimized Support Vector Machine Assisted BOTDA for Temperature Extraction With Accuracy Enhancement. *Zhu, H., +, JPHOT Feb. 2020 6800214*

- Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides. *Zhang, B., +, JPHOT April 2020 6600610*

- Symmetric Cryptography With Shift 2^{n-1} , Hash Transformation, Optimization-Based Controller for Medical Image Infosecurity: Case Study in Mammographic Image. *Chen, P., +, JPHOT June 2020 4100115*

Ultra-Broadband, Fabrication Tolerant Optical Coupler for Arbitrary Splitting Ratio Using Particle Swarm Optimization Algorithm. *Leng, L., +, JPHOT Oct. 2020 6602212*

Passivation

Improved Performance of Passive-Matrix Micro-LED Displays Using a Multi-Function Passivation Structure. *Chen, P., +, JPHOT Aug. 2020 7000711*

Passive networks

A Novel Method for Constructing VLC Equalizer With Active-Passive Hybrid Network. *Min, C., +, JPHOT April 2020 7500310*

Passive optical networks

A Novel Hybrid Secure Method Based on DNA Encoding Encryption and Spiral Scrambling in Chaotic OFDM-PON. *Xiao, Y., +, JPHOT June 2020 7201215*

High-Security Multi-Slot Chaos Encryption With Dynamic Probability for 16-CAP PON. *han, S., +, JPHOT June 2020 7201510*

Hybrid OFDM-Digital Filter Multiple Access PONs Utilizing Spectrally Overlapped Digital Orthogonal Filtering. *Sankoh, A., +, JPHOT Oct. 2020 7905311*

SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs. *Zhang, X., +, JPHOT June 2020 7903113*

Traffic-Adaptive Inter Wavelength Load Balancing for TWDM PON. *Memon, K.A., +, JPHOT Feb. 2020 7200408*

Path planning

High-Accuracy Robot Indoor Localization Scheme Based on Robot Operating System Using Visible Light Positioning. *Guan, W., +, JPHOT April 2020 7901716*

Patient monitoring

Robust Imaging Photoplethysmography in Long-Distance Motion. *Kong, L., +, JPHOT June 2020 3900512*

Pediatrics

Enhancement of Chest X-Ray Images to Improve Screening Accuracy Rate Using Iterated Function System and Multilayer Fractional-Order Machine Learning Classifier. *Lin, C., +, JPHOT Aug. 2020 4100218*

Performance analysis

Constant Weight Space-Time Codes for Dimmable MIMO-VLC Systems. *Guo, J., +, JPHOT Dec. 2020 7906815*

Periodic structures

Wide-Range Tunable Narrow Band-Stop Filter Based on Bilayer Graphene in the Mid-Infrared Region. *Wang, Y., +, JPHOT Aug. 2020 7801009*

Permittivity

Vertical Second Harmonic Generation in Asymmetric Dielectric Nanoantennas. *Rocco, D., +, JPHOT June 2020 4500507*

Perovskites

Optical Tunneling to Improve Light Extraction in Quantum Dot and Perovskite Light-Emitting Diodes. *Mei, G., +, JPHOT Dec. 2020 1600314*

Perturbation methods

Analytic Expressions for Orbital Angular Momentum Modal Crosstalk in a Slightly Elliptical Fiber. *Bhandari, R., JPHOT Dec. 2020 7202621*

Perturbation theory

Orbital Angular Momentum (OAM) Mode Mixing in a Bent Step Index Fiber in Perturbation Theory: Multiple Bends. *Bhandari, R., JPHOT April 2020 7200510*

Theoretical Analyses of Different Nonlinear Compensation Methods Based on Perturbation Theories in the Unrepeated System With Raman Amplification. *Wang, Y., +, JPHOT Aug. 2020 7903611*

Phantoms

Towards Non-Contact Glucose Sensing in Aqueous Turbid Medium at $\square 1.1$ Meters Distance. *Piao, D., +, JPHOT Aug. 2020 3700523*

Phase change materials

Switchable Quarter-Wave Plate and Half-Wave Plate Based on Phase-Change Metasurface. *Li, Y., +, JPHOT April 2020 4600410*

Phase control

High-Speed Optical-Beam Scanning by an Optical Phased Array Using Electro-Optic Polymer Waveguides. *Hirano, Y., +, JPHOT April 2020 6600807*

Phase estimation

A Simple Blind Sampling Frequency Offset Estimation Scheme for Short-Reach DD-OFDM Systems. *Wen, H., +, JPHOT Dec. 2020 7906010*

Phase measurement

Two-Step Phase-Shifting Algorithm Based on the Quadratic Spatial Filtering of Interferograms. *Han, X., +, JPHOT Dec. 2020 6901812*

Phase modulation

2.5 kW Narrow Linewidth Linearly Polarized All-Fiber MOPA With Cascaded Phase-Modulation to Suppress SBS Induced Self-Pulsing. *Wang, Y., +, JPHOT June 2020 1502815*

A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation. *Zhang, H., +, JPHOT Feb. 2020 5500208*

A Photonic Approach for Doppler Frequency Shift Measurement With Dispersion Medium. *Yi, C., +, JPHOT Oct. 2020 7102708*

Dual-Channel Phase-Tunable Down Converter With LO Frequency Doubling. *Wang, Y., +, JPHOT Aug. 2020 5501710*

Optical Multipath RF Self-Interference Cancellation Based on Phase Modulation for Full-Duplex Communication. *Su, X., +, JPHOT Aug. 2020 7102114*

Should Analogue Pre-Equalisers be Avoided in VLC Systems?. *Li, X., +, JPHOT April 2020 7901014*

Stability Analysis and Transient Attraction Dynamics of Flat-Top Solitons via Modulated Driving Fields in Normal Dispersion Microcavity. *Jin, X., +, JPHOT Oct. 2020 1503915*

Terahertz-Wave Generation Based on Optical Frequency Comb and Single Mach-Zehnder Modulator. *Yu, J., +, JPHOT Feb. 2020 7900808*

Wideband and Ambiguous-Free RF Channelizer Assisted Jointly by Spacing and Profile of Optical Frequency Comb. *Lu, X., +, JPHOT June 2020 5500911*

Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P., +, JPHOT Dec. 2020 6602409*

Phase noise

A Novel Phase Noise Suppression Scheme Utilizing Gaussian Wavelet Basis Expansion for PDM CO-OFDM Superchannel. *Chen, Y., +, JPHOT April 2020 7902309*

Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz. *Vallejo, L., +, JPHOT Feb. 2020 5500309*

Phase shift keying

Photonic Approach for Generation and Fast Switching of Binary Digitally Modulated RF Signals. *Feng, X., +, JPHOT Oct. 2020 5502208*

Reconfigurable Photonic Generation of Binary Modulated Microwave Signals. *Ma, J., +, JPHOT Dec. 2020 5503010*

Phase shifting interferometry

A Demodulation Method of Spatial Domain for Low-Coherence Interferometry With High Accuracy and Adaptability. *Wang, C., +, JPHOT April 2020 6801111*

Quantitative Phase Imaging During Cell Division Based on Dual-Channel Microscopic Interferometry System. *Liu, S., +, JPHOT Feb. 2020 6900411*

Phosphorescence

A Novel Method for Constructing VLC Equalizer With Active-Passive Hybrid Network. *Min, C., +, JPHOT April 2020 7500310*

Phosphors

Electrical and Thermal Effects of Tunable LED Systems on Lighting and Non-Visual Biological Characteristics. *Shen, X., +, JPHOT June 2020 8200313*

Machine-Learning Assisted Prediction of Spectral Power Distribution for Full-Spectrum White Light-Emitting Diode. *Fan, J., +, JPHOT Feb. 2020 8200218*

Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F., +, JPHOT Aug. 2020 7904512*

Phosphorus

Tunable Anisotropic Perfect Enhancement Absorption in Black Phosphorus-Based Metasurfaces. *Tang, B., +, JPHOT June 2020 4500209*

Photoacoustic spectra

Study on the Photoacoustic Technology to Simultaneous In-Situ Detection of the Cavity Ring-Down Spectrum for Multi-Optical Parameters. *Jin, H., +, JPHOT April 2020 6800711*

Photoacoustic spectroscopy

Study on the Photoacoustic Technology to Simultaneous In-Situ Detection of the Cavity Ring-Down Spectrum for Multi-Optical Parameters. *Jin, H., +, JPHOT April 2020 6800711*

Photoconducting devices

The Impact of Structural Parameters of Split-Ring Resonators on the Terahertz Radiation Characteristics of Micro-Structured Photoconductive Antennas: A Simulation Study. *Deng, H., +, JPHOT June 2020 5900213*

Photoconductivity

Sidewall Profile Dependent Nanostructured Ultrathin Solar Cells With Enhanced Light Trapping Capabilities. *Sun, T., +, JPHOT Feb. 2020 8400112*

Photodetectors

A Compact High-Speed Active Quenching and Recharging Circuit for SPAD Detectors. *Xu, Y., +, JPHOT Oct. 2020 6803208*

A Photonic Approach for Doppler Frequency Shift Measurement With Dispersion Medium. *Yi, C., +, JPHOT Oct. 2020 7102708*

An Amorphous ($\text{Al}_{0.12}\text{Ga}_{0.88}$) $_2\text{O}_3$ Deep Ultraviolet Photodetector. *Liu, S., +, JPHOT Aug. 2020 6801908*

Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. *Li, K., +, JPHOT Oct. 2020 1503811*

Broadband Image-Reject Mixing Based on a Polarization-Modulated Dual-Channel Photonic Microwave Phase Shifter. *Zhang, Y., +, JPHOT April 2020 7800409*

Corrections to “Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving” [Dec 20 Art. no. 5502512]. *Zhang, T., +, JPHOT Dec. 2020 9700401*

Design and Measurement of Ring-Gate Single Photon Avalanche Diode With Low Dark Count Rate. *Wang, Y., +, JPHOT June 2020 6801711*

Dual-Channel Phase-Tunable Down Converter With LO Frequency Doubling. *Wang, Y., +, JPHOT Aug. 2020 5501710*

Freeform Surface Graded Optimization of Deformable Mirrors in Integrated Zoom and Image Stabilization System Through Vectorial Ray Tracing and Image Point Freezing Method. *Ning, Y., +, JPHOT Feb. 2020 6900316*

High-Performance Microring Resonator Ge-on-Si Photodetectors by Optimizing Absorption Layer Length. *Cui, J., +, JPHOT Aug. 2020 6802208*

Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving. *Zhang, T., +, JPHOT Dec. 2020 5502512*

Impact of Temperature and Doping on the Performance of Ge/Ge $_{1-x}$ Sn $_x$ /Ge Heterojunction Phototransistors. *Kumar, H., +, JPHOT June 2020 6801814*

Optical Self-Interference Cancellation With Frequency Down-Conversion Based on Cascade Modulator. *Wang, J., +, JPHOT Dec. 2020 5502708*

Performance Limits for Fingerprinting-Based Indoor Optical Communication Positioning Systems Exploiting Multipath Reflections. *Hosseiniyanfar, H., +, JPHOT Aug. 2020 7903416*

Quantitative Phase Imaging During Cell Division Based on Dual-Channel Microscopic Interferometry System. *Liu, S., +, JPHOT Feb. 2020 6900411*

Toward Long-Distance Underwater Wireless Optical Communication Based on A High-Sensitivity Single Photon Avalanche Diode. *Chen, H., +, JPHOT June 2020 7902510*

Photodiodes

Broadband Passive Photonic Diodes With the Saturable Absorption in Antimony Thin Film. *Zhang, J., +, JPHOT Feb. 2020 6100307*

Characterization of Field of View in Visible Light Communication Systems for Intelligent Transportation Systems. *Seminara, M., +, JPHOT Aug. 2020 7903816*

Design of the Real-Time Single-Photodiode Digital Coherent Receiver Suitable for Free Space Optical Communication. *Zhou, K., +, JPHOT Oct. 2020 7905412*

Spatial Multiplexing MIMO Visible Light Communications With Densely Distributed LEDs and PDs. *Zheng, D., +, JPHOT Oct. 2020 7905807*

The Effect of Bias and Frequency on Amplitude to Phase Conversion of Photodiodes. *Sun, J., +, JPHOT Aug. 2020 5502010*

Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P., +, JPHOT Dec. 2020 6602409*

Photography

Momentum-Accelerated Incoherent Fourier Ptychographic Photography. *Wei, W., +, JPHOT April 2020 3900414*

Photolithography

Interleaved Subwavelength Gratings Strip Waveguide Based TM Pass Polarizer on SOI Platform. *Xu, Z., +, JPHOT April 2020 4900110*

Photoluminescence

Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M., +, JPHOT June 2020 8200408*

Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule. *Zhang, W., +, JPHOT Feb. 2020 2200108*

Stacked Encapsulation Structure for Discretely Distributed Quantum Dot Array. *Cai, J., +, JPHOT April 2020 7000310*

Photon counting

A Compact High-Speed Active Quenching and Recharging Circuit for SPAD Detectors. *Xu, Y., +, JPHOT Oct. 2020 6803208*

A Precise High Count-Rate FPGA Based Multi-Channel Coincidence Counting System for Quantum Photonics Applications. *Arabul, E., +, JPHOT April 2020 7500114*

Characterize the Speed of a Photon-Number-Resolving Superconducting Nanowire Detector. *Tao, X., +, JPHOT Aug. 2020 4501308*

Design and Measurement of Ring-Gate Single Photon Avalanche Diode With Low Dark Count Rate. *Wang, Y., +, JPHOT June 2020 6801711*

Dual Gm-APD Polarization Lidar to Acquire the Depth Image of Shallow Semitransparent Media With a Wide Laser Pulse. *Xu, L., +, JPHOT Oct. 2020 6803310*

Photonic band gap

Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule. *Zhang, W., +, JPHOT Feb. 2020 2200108*

Photonic crystals

A Surface Plasmon Resonance Temperature Sensing Unit Based on a Graphene Oxide Composite Photonic Crystal Fiber. *Liang, H., +, JPHOT June 2020 7201811*

Air-Mode Photonic Crystal Micro-Ring Resonator With Enhanced Quality Factor for Refractive Index Sensing. *Xu, Y., +, JPHOT June 2020 6601111*

All-Fiber High Power Supercontinuum Generation by Cascaded Photonic Crystal Fibers Ranging From 370 nm to 2400 nm. *Zhang, H., +, JPHOT April 2020 7101608*

Compressive Sensing Based on Mesoscopic Chaos of Silicon Optomechanical Photonic Crystal. *Guo, P., +, JPHOT Oct. 2020 6602009*

Efficient and Tunable 1.6- μm MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO $_4$ /YVO $_4$ Raman Laser. *Zhao, L., +, JPHOT Feb. 2020 1500107*

Experimental Study of Hollow-Core Photonic Crystal Fiber Optical Switching Effect in Liquid Nitrogen Environment. *Song, N., +, JPHOT June 2020 7101806*

High-Power Femtosecond Pulse Generation From an All-Fiber Er-Doped Chirped Pulse Amplification System. *Wei, R., +, JPHOT April 2020 3200208*

High-Sensitive Refractive Index Sensing Enabled by Topological Charge Evolution. *Lv, J., +, JPHOT Oct. 2020 4501610*

Highly Birefringent, Low-Loss, and Near-Zero Flat Dispersion ENZ Based THz Photonic Crystal Fibers. *Hossain, M.S., +, JPHOT June 2020 7202109*

Instantaneous Microwave Frequency Measurement Based on Two Cascaded Photonic Crystal Nanocavities. *Liu, L., +, JPHOT Dec. 2020 4501809*

Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule. *Zhang, W., +, JPHOT Feb. 2020 2200108*

Multi-Channel Photonic Crystal Fiber Based Surface Plasmon Resonance Sensor for Multi-Analyte Sensing. *Yasli, A., +, JPHOT Feb. 2020 6800515*

Sensitivity-Based Structural Optimal Design With Bi-Directional Beam Propagation Method for Photonic Devices in High-Index-Contrast Waveguides. *Iguchi, A., +, JPHOT Oct. 2020 6602111*

Ultra-Low Index-Contrast Polymeric Photonic Crystal Nanobeam Electro-Optic Modulator. *Li, X., +, JPHOT June 2020 4900208*

Ultraviolet-Extended Supercontinuum Generation in Zero-Dispersion Wavelength Decreasing Photonic Crystal Fibers. *Bi, W., +, JPHOT Dec. 2020 3200608*

Versatile Vibration Sensing Using a Tapered Photonic Crystal Fiber With a Featured Core. *Yu, H., +, JPHOT April 2020 6801310*

Photoplethysmography

Robust Imaging Photoplethysmography in Long-Distance Motion. *Kong, L., +, JPHOT June 2020 3900512*

Photoresists

High Precision Fabrication Method of Fresnel Diffractive Lenses on Ultrathin Membrane for Imaging Application. *Liu, X., +, JPHOT Aug. 2020 2400310*

Resonant Reflection From Cylindrical Grating-Waveguide Under Holistic Excitation. *Koussi, E.K., +, JPHOT April 2020 2700111*

Phototransistors

Impact of Temperature and Doping on the Performance of Ge/Ge_{1-x}Sn_x/Ge Heterojunction Phototransistors. *Kumar, H., +, JPHOT June 2020 6801814*

Photovoltaic cells

High-Efficiency Pulse Width Modulation-Based Wireless Laser Power Transmission Step-Down System. *Wang, Y., +, JPHOT April 2020 8400214*

Physical layer security

Comprehensive Physical Layer Security Analysis of FSO Communications Over Málaga Channels. *Ai, Y., +, JPHOT Dec. 2020 7906617*

Piezoceramics

Ultrafine Frequency Linearly Tunable Single-Frequency Fiber Laser Based on Intracavity Active Tuning. *Jin, L., +, JPHOT April 2020 1500806*

Piezoelectric actuators

Ultrafine Frequency Linearly Tunable Single-Frequency Fiber Laser Based on Intracavity Active Tuning. *Jin, L., +, JPHOT April 2020 1500806*

Piezoelectric transducers

Compact, High-Performance All-Polarization-Maintaining Er: Fiber Frequency Comb With Single Fiber Actuator. *Cai, Y., +, JPHOT Aug. 2020 7102508*

Piezoelectricity

Polarization Enhanced GaN Avalanche Photodiodes With p-type In_{0.05}Ga_{0.95}N Layer. *Wang, H., +, JPHOT Feb. 2020 6800606*

Planarization

Improved Performance of Passive-Matrix Micro-LED Displays Using a Multi-Function Passivation Structure. *Chen, P., +, JPHOT Aug. 2020 7000711*

Plasmonics

A Multipurpose and Highly-Compact Plasmonic Filter Based on Metal-Insulator-Metal Waveguides. *Ebadi, S.M., +, JPHOT June 2020 4800309*

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K., +, JPHOT Oct. 2020 2200611*

Entanglement of Microwave and Optical Fields Using Electrical Capacitor Loaded With Plasmonic Graphene Waveguide. *Qasymeh, M., +, JPHOT April 2020 7500212*

Investigation of Enhanced Transmission and Beaming Effect Through an InSb Subwavelength Grating With a Slit at the Terahertz Range. *Liu, X., +, JPHOT Feb. 2020 4800112*

Multi-Channel Photonic Crystal Fiber Based Surface Plasmon Resonance Sensor for Multi-Analyte Sensing. *Yasli, A., +, JPHOT Feb. 2020 6800515*

Optimized Multilayer Structures With Ultrabroadband Near-Perfect Absorption. *You, C., +, JPHOT June 2020 4500810*

Planar Plasmonic Terahertz Waveguide Based Upon One Dimensional Array of Pyramidal Corrugations and Refractive Index Sensing. *Dhriti, K., +, JPHOT Dec. 2020 4801010*

Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays. *Wang, Z., +, JPHOT June 2020 4800410*

Probing Composite Vibrational Fingerprints in the Terahertz Range With Graphene Split Ring Resonator. *Mao, X., +, JPHOT Oct. 2020 5900408*

Refractive Index Nanosensor With Simple Structure Based on Fano Resonance. *Guo, J., +, JPHOT Aug. 2020 4800710*

The Design of CMOS-Compatible Plasmonic Waveguides for Intra-Chip Communication. *Liu, Y., +, JPHOT Oct. 2020 4800810*

Tunable and Reconfigurable Dual-Band Chiral Metamirror. *Fan, J., +, JPHOT Oct. 2020 4601108*

Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V., +, JPHOT Oct. 2020 4800913*

Ultrasensitive Sizing Sensor for a Single Nanoparticle in a Hybrid Nonlinear Microcavity. *Li, L., +, JPHOT June 2020 4500708*

Wide-Range Tunable Narrow Band-Stop Filter Based on Bilayer Graphene in the Mid-Infrared Region. *Wang, Y., +, JPHOT Aug. 2020 7801009*

Plasmons

Tunable and Multiple Plasmon-Induced Transparency in a Metasurface Comprised of Silver S-Shaped Resonator and Rectangular Strip. *Bilal, R.M.H., +, JPHOT June 2020 4500913*

Pointing systems

A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M., +, JPHOT Dec. 2020 7906212*

Poisson equation

Optical Gain Characteristics of BGaAs/GaP Quantum Wells. *Maczko, H.S., +, JPHOT Aug. 2020 6101013*

Polar codes

Neural Successive Cancellation Polar Decoder With Tanh-Based Modified LLR Over FSO Turbulence Channel. *Fang, J., +, JPHOT Dec. 2020 7906110*

Polaritons

High Average Power Diode-Side-Pumped Intracavity Terahertz Parametric Source Based on Stimulated Polariton Scattering in RbTiOPO₄ Crystal. *Gao, F., +, JPHOT April 2020 1400109*

Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. *Wenclawiak, M., +, JPHOT Oct. 2020 5900608*

Poles and zeros

Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength. *Li, J., +, JPHOT Aug. 2020 6601309*

Polynomials

Nonlinearity Mitigation of Multi-Level Optical Transmission Using Spectrum-Split Digital Pre-Distortion. *Lim, G., +, JPHOT Feb. 2020 7200208*

Sequential Shift Absolute Phase Aberration Calibration in Digital Holographic Phase Imaging Based on Chebyshev Polynomials Fitting. *He, W., +, JPHOT Feb. 2020 6900111*

Population inversion

A Comparative Study of Thermal Impact on Erbium Doped Distributed Feedback Fiber Laser Output Power. *Guo, J., +, JPHOT April 2020 1502009*

Position control

A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M., +, JPHOT Dec. 2020 7906212*

Indoor High Precision Three-Dimensional Positioning System Based on Visible Light Communication Using Improved Hybrid Bat Algorithm. *Chen, Y., +, JPHOT Oct. 2020 6802513*

Using Linear Interpolation to Reduce the Training Samples for Regression Based Visible Light Positioning System. *Wu, Y., +, JPHOT April 2020 7901305*

Potassium compounds

13.7-W 588-nm Yellow Laser Generation by Frequency Doubling of 885-nm Side-Pumped Nd: YAG-YVO₄ Intracavity Raman Laser. *Sun, B., +, JPHOT April 2020 1501607*

High-Power High-Repetition-Rate Tunable Yellow Light Generation by an Intracavity-Frequency-Doubled Singly Resonant Optical Parametric Oscillator. *Sun, B., +, JPHOT June 2020 1502310*

Highly Birefringent, Low-Loss, and Near-Zero Flat Dispersion ENZ Based THz Photonic Crystal Fibers. *Hossain, M.S., +, JPHOT June 2020 7202109*

Power converters

High-Efficiency Pulse Width Modulation-Based Wireless Laser Power Transmission Step-Down System. *Wang, Y., +, JPHOT April 2020 8400214*

Power distribution

Integrated Optical Power Splitter With Continuously Adjustable Power Splitting Ratio. *Liao, S., +, JPHOT Dec. 2020 7801513*

Principal component analysis

Design of Optimal Illumination Patterns in Single-Pixel Imaging Using Image Dictionaries. *Feng, J., +, JPHOT Aug. 2020 6901509*

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K.*, +, *JPHOT Oct. 2020 2200611*

Private key cryptography

Asymmetric Optical Image Encryption With Silhouette Removal Using Interference and Equal Modulus Decomposition. *Luan, G.*, +, *JPHOT April 2020 6900508*

Symmetric Cryptography With Shift 2^{n-1} , Hash Transformation, Optimization-Based Controller for Medical Image Infosecurity: Case Study in Mammographic Image. *Chen, P.*, +, *JPHOT June 2020 4100115*

Probability

A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M.*, +, *JPHOT Dec. 2020 7906212*

Comprehensive Physical Layer Security Analysis of FSO Communications Over Málaga Channels. *Ai, Y.*, +, *JPHOT Dec. 2020 7906617*

High Detection Rate Fast-Gated CMOS Single-Photon Avalanche Diode Module. *Renna, M.*, +, *JPHOT Oct. 2020 6802312*

High-Security Multi-Slot Chaos Encryption With Dynamic Probability for 16-CAP PON. *han, S.*, +, *JPHOT June 2020 7201510*

Hybrid QKD Protocol Outperforming Both DV- and CV-QKD Protocols. *Djordjevic, I.B.*, *JPHOT Feb. 2020 7600108*

Lommel-Gaussian Pulsed Beams Carrying Orbital Angular Momentum Propagation in Asymmetric Oceanic Turbulence. *Li, Y.*, +, *JPHOT Feb. 2020 7900915*

On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference. *Erdogan, E.*, +, *JPHOT Feb. 2020 7900313*

Performance Analysis of Dual-Hop RF-UWOC Systems. *Lei, H.*, +, *JPHOT April 2020 7901915*

Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. *Zhang, J.*, +, *JPHOT April 2020 7902011*

Study on the k-Connectivity of UV Communication Network Under the Node Distribution of RWP Mobility Model in the Arbitrary Polygon Area. *Li, C.*, +, *JPHOT Aug. 2020 7903912*

Propagation constant

Analytic Expressions for Orbital Angular Momentum Modal Crosstalk in a Slightly Elliptical Fiber. *Bhandari, R.*, *JPHOT Dec. 2020 7202621*

Pulse amplitude modulation

A Tunable Energy Signal for Intensity Modulation and Direct Detection Systems: Theory, Simulations, and Experiments. *Vejanla, K.*, +, *JPHOT Feb. 2020 7900412*

Demonstration of 4×100 Gbit/s PAM-4 Transmission Over 40 km in an IM/DD System Based on Narrow Band DMLs. *Wang, K.*, +, *JPHOT June 2020 7201908*

Impact of Analog and Digital Pre-Emphasis on the Signal-to-Noise Ratio of Bandwidth-Limited Optical Transceivers. *Zhou, Z.*, +, *JPHOT April 2020 7200712*

Low-Complexity Time-Domain Averaging-Based DAC Clock Tone Leakage Compensation for Short-Reach PAM4 Transmission. *Chen, M.*, +, *JPHOT June 2020 7202014*

Nonlinearity Mitigation of Multi-Level Optical Transmission Using Spectrum-Split Digital Pre-Distortion. *Lim, G.*, +, *JPHOT Feb. 2020 7200208*

Rate Analysis of Intensity Modulated Broadcast Optical Mobile Communication System With User Mobility. *Gao, J.*, +, *JPHOT Oct. 2020 7905312*

Pulse position modulation

Diffused-Line-of-Sight Communication for Mobile and Fixed Underwater Nodes. *Guo, Y.*, +, *JPHOT Dec. 2020 7906413*

Light-Emitting Commutating Diodes for Optical Wireless Communications Within LED Drivers. *Pawlikowski, W.*, +, *JPHOT Oct. 2020 7905111*

PWM power converters

High-Efficiency Pulse Width Modulation-Based Wireless Laser Power Transmission Step-Down System. *Wang, Y.*, +, *JPHOT April 2020 8400214*

Python

Experimental Demonstration of Continuous Sensor Data Monitoring Using Neural Network-Based Optical Camera Communications. *Ahmed, M.F.*, +, *JPHOT Oct. 2020 7905011*

Q

Q factor

A Raman-Pumped Dispersion and Nonlinearity Compensating Fiber For Fiber Optic Communications. *Bidaki, E.*, +, *JPHOT Feb. 2020 7200117*

Air-Mode Photonic Crystal Micro-Ring Resonator With Enhanced Quality Factor for Refractive Index Sensing. *Xu, Y.*, +, *JPHOT June 2020 6601111*

Analysis of Tapered Nanopillars for Reflective Metalems: The Role of Higher-Order Modes. *Lin, R.*, +, *JPHOT Aug. 2020 4600907*

Improving the Linearity of Silicon Ring Modulators by Manipulating the Photon Dynamics. *Zhang, Q.*, +, *JPHOT April 2020 6600810*

Integrated Photonic Platform for Robust Differential Refractive Index Sensor. *Moras, A.L.*, +, *JPHOT Oct. 2020 6802910*

Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule. *Zhang, W.*, +, *JPHOT Feb. 2020 2200108*

Light Extraction Efficiency of GaN-Based Micro-Scale Light-Emitting Diodes Investigated Using Finite-Difference Time-Domain Simulation. *Ryu, H.*, +, *JPHOT April 2020 1600110*

Magnetic Fluid Infiltrated Microbottle Resonator Sensor With Axial Confined Mode. *Hou, F.*, +, *JPHOT Oct. 2020 6802709*

Nonlinear Bound States in the Continuum of Etchless Lithium Niobate Metasurfaces. *Yang, Q.*, +, *JPHOT Oct. 2020 4601209*

Planar Plasmonic Terahertz Waveguide Based Upon One Dimensional Array of Pyramidal Corrugations and Refractive Index Sensing. *Dhriti, K.*, +, *JPHOT Dec. 2020 4801010*

Plasmonic Demultiplexer With Tunable Output Power Ratio Based on Metal-Dielectric-Metal Structure and E7 Liquid Crystal Arrays. *Wang, Z.*, +, *JPHOT June 2020 4800410*

Ultra-Low Index-Contrast Polymeric Photonic Crystal Nanobeam Electro-Optic Modulator. *Li, X.*, +, *JPHOT June 2020 4900208*

Q-switching

13.7-W 588-nm Yellow Laser Generation by Frequency Doubling of 885-nm Side-Pumped Nd:YAG-YVO₄ Intracavity Raman Laser. *Sun, B.*, +, *JPHOT April 2020 1501607*

A Novel Repetition Rate Adjustable SBS-Based Q-Switched Fiber Laser. *Hou, S.*, +, *JPHOT April 2020 1501408*

Actively Q-Switched Tm:YAP Laser Constructed Using an Electro-Optic Periodically Poled Lithium Niobate Bragg Modulator. *Lin, S.*, +, *JPHOT Oct. 2020 1503509*

Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser. *Huang, H.*, +, *JPHOT June 2020 1503008*

Efficient and Tunable 1.6- μ m MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO₄/YVO₄ Raman Laser. *Zhao, L.*, +, *JPHOT Feb. 2020 1500107*

Generation of Flat-Top Q-Switched Envelope Dissipative Soliton Resonance Pulse in Passively Mode-Locked Fiber Laser. *Han, L.*, +, *JPHOT April 2020 7101508*

Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber. *Li, G.*, +, *JPHOT April 2020 1501009*

Quadrature amplitude modulation

A Novel Hybrid Secure Method Based on DNA Encoding Encryption and Spiral Scrambling in Chaotic OFDM-PON. *Xiao, Y.*, +, *JPHOT June 2020 7201215*

A Novel Phase Noise Suppression Scheme Utilizing Gaussian Wavelet Basis Expansion for PDM CO-OFDM Superchannel. *Chen, Y.*, +, *JPHOT April 2020 7902309*

A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation. *Zhang, H.*, +, *JPHOT Feb. 2020 5500208*

A Raman-Pumped Dispersion and Nonlinearity Compensating Fiber For Fiber Optic Communications. *Bidaki, E.*, +, *JPHOT Feb. 2020 7200117*

A Simple Blind Sampling Frequency Offset Estimation Scheme for Short-Reach DD-OFDM Systems. *Wen, H.*, +, *JPHOT Dec. 2020 7906010*

A Simplified Radio-Over-Fiber System for Over 100-km Long-Reach n-QAM Transmission. *Shiu, R.*, +, *JPHOT June 2020 7902908*

- Adaptive Blind Stokes-Space Based Equalizer for RSOP in SV-DD Systems With High Chromatic Dispersion Tolerance. *Jin, Y.*, +, *JPHOT April 2020 7200913*
- Blind Frequency Offset Estimation Based on Phase Rotation For Coherent Transceiver. *Tan, Q.*, +, *JPHOT April 2020 7902212*
- D-band Millimeter Wave Generation and Transmission Though Radio-Over-Fiber System. *Li, J.L.*, +, *JPHOT April 2020 5500708*
- D-Band mm-Wave SSB Vector Signal Generation Based on Cascaded Intensity Modulators. *Li, Y.*, +, *JPHOT April 2020 7201111*
- Dispersion and Nonlinearity Distortion Compensation of the QPSK/16QAM Signals Using Optical Phase Conjugation in Nonlinear SOAs. *Sobhanan, A.*, +, *JPHOT Feb. 2020 7800107*
- Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz. *Vallejo, L.*, +, *JPHOT Feb. 2020 5500309*
- Improve The Capacity Of Data Transmission In Orbital Angular Momentum Multiplexing By Adjusting Link Structure. *Zhao, L.*, +, *JPHOT June 2020 5501111*
- Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas. *Miglani, R.*, +, *JPHOT Aug. 2020 7904621*
- Nonlinear Resilient Learning Method Based on Joint Time-Frequency Image Analysis in Underwater Visible Light Communication. *Chen, H.*, +, *JPHOT April 2020 7901610*
- Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D.*, +, *JPHOT Dec. 2020 5502814*
- Security Analysis of QAM Quantum-Noise Randomized Cipher System. *Chen, Y.*, +, *JPHOT Aug. 2020 7904114*
- SSB Pruned DFT-Spread FBMC Signal With Low PAPR in Direct-Detection PONs. *Zhang, X.*, +, *JPHOT June 2020 7903113*
- Terahertz-Wave Generation Based on Optical Frequency Comb and Single Mach-Zehnder Modulator. *Yu, J.*, +, *JPHOT Feb. 2020 7900808*
- Theoretical Analyses of Different Nonlinear Compensation Methods Based on Perturbation Theories in the Unrepeated System With Raman Amplification. *Wang, Y.*, +, *JPHOT Aug. 2020 7903611*
- Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J.*, +, *JPHOT June 2020 5501414*
- Quadrature phase shift keying**
- A Simple Blind Sampling Frequency Offset Estimation Scheme for Short-Reach DD-OFDM Systems. *Wen, H.*, +, *JPHOT Dec. 2020 7906010*
- Blind Frequency Offset Estimation Based on Phase Rotation For Coherent Transceiver. *Tan, Q.*, +, *JPHOT April 2020 7902212*
- D-band Millimeter Wave Generation and Transmission Though Radio-Over-Fiber System. *Li, J.L.*, +, *JPHOT April 2020 5500708*
- D-Band mm-Wave SSB Vector Signal Generation Based on Cascaded Intensity Modulators. *Li, Y.*, +, *JPHOT April 2020 7201111*
- Design of the Real-Time Single-Photodiode Digital Coherent Receiver Suitable for Free Space Optical Communication. *Zhou, K.*, +, *JPHOT Oct. 2020 7905412*
- Dispersion and Nonlinearity Distortion Compensation of the QPSK/16QAM Signals Using Optical Phase Conjugation in Nonlinear SOAs. *Sobhanan, A.*, +, *JPHOT Feb. 2020 7800107*
- Free-Space Communication Turbulence Compensation by Optical Phase Conjugation. *Chen, J.*, +, *JPHOT Oct. 2020 7905611*
- Injection-Locked Quantum-Dash Laser in Far L-Band 192 Gbit/s DWDM Transmission. *Khan, M.Z.M.*, +, *JPHOT Oct. 2020 1504211*
- Terahertz-Wave Generation Based on Optical Frequency Comb and Single Mach-Zehnder Modulator. *Yu, J.*, +, *JPHOT Feb. 2020 7900808*
- Quadrees**
- Fast Visibility Restoration Using a Single Degradation Image in Scattering Media. *Wang, Y.*, +, *JPHOT June 2020 6100813*
- Quality of service**
- User-Centric Access Scheme Based on Interference Management for Indoor VLC-WIFI Heterogeneous Networks. *Liu, H.*, +, *JPHOT Aug. 2020 7903712*
- Quantization (signal)**
- Impact of Analog and Digital Pre-Emphasis on the Signal-to-Noise Ratio of Bandwidth-Limited Optical Transceivers. *Zhou, Z.*, +, *JPHOT April 2020 7200712*
- Quantum computing**
- Real-Time Phase Tracking Scheme With Mismatched-Basis Data for Phase-Coding Quantum Key Distribution. *Wang, D.*, +, *JPHOT June 2020 7600307*
- Quantum cryptography**
- High-Speed Privacy Amplification Scheme Using GMP in Quantum Key Distribution. *Yan, B.*, +, *JPHOT June 2020 7600213*
- Hybrid QKD Protocol Outperforming Both DV- and CV-QKD Protocols. *Djordjevic, I.B.*, *JPHOT Feb. 2020 7600108*
- Real-Time Phase Tracking Scheme With Mismatched-Basis Data for Phase-Coding Quantum Key Distribution. *Wang, D.*, +, *JPHOT June 2020 7600307*
- Security Analysis of QAM Quantum-Noise Randomized Cipher System. *Chen, Y.*, +, *JPHOT Aug. 2020 7904114*
- Quantum dash lasers**
- Effects of Power Split Ratio and Optical Delay Phase Tuning on Stabilization of Self-Mode-Locked Quantum-Dash Lasers Subject to Dual-Loop Optical Feedback. *Asghar, H.*, +, *JPHOT April 2020 1502211*
- Injection-Locked Quantum-Dash Laser in Far L-Band 192 Gbit/s DWDM Transmission. *Khan, M.Z.M.*, +, *JPHOT Oct. 2020 1504211*
- Quantum dot lasers**
- Regulating the Single-Mode Lasing Intensity of Semiconductor Lasers Without Wavelength Shift. *Wang, Y.*, +, *JPHOT April 2020 6100709*
- Quantum dots**
- A Low Loss Quantum-Dot-Doped Optical Fiber Temperature Sensor Based on Flexible Print Technology. *Zhang, G.*, +, *JPHOT June 2020 7101008*
- Optical Tunneling to Improve Light Extraction in Quantum Dot and Perovskite Light-Emitting Diodes. *Mei, G.*, +, *JPHOT Dec. 2020 1600314*
- Stacked Encapsulation Structure for Discretely Distributed Quantum Dot Array. *Cai, J.*, +, *JPHOT April 2020 7000310*
- Quantum entanglement**
- Entanglement of Microwave and Optical Fields Using Electrical Capacitor Loaded With Plasmonic Graphene Waveguide. *Qasymeh, M.*, +, *JPHOT April 2020 7500212*
- Navigation Ranging Scheme Based on Microwave-Optical Entanglement Prepared by Electro-Opto-Mechanical Converters. *Luo, J.*, +, *JPHOT April 2020 7500415*
- Real-Time Phase Tracking Scheme With Mismatched-Basis Data for Phase-Coding Quantum Key Distribution. *Wang, D.*, +, *JPHOT June 2020 7600307*
- Quantum noise**
- Security Analysis of QAM Quantum-Noise Randomized Cipher System. *Chen, Y.*, +, *JPHOT Aug. 2020 7904114*
- Quantum optics**
- A Precise High Count-Rate FPGA Based Multi-Channel Coincidence Counting System for Quantum Photonics Applications. *Arabul, E.*, +, *JPHOT April 2020 7500114*
- Entanglement of Microwave and Optical Fields Using Electrical Capacitor Loaded With Plasmonic Graphene Waveguide. *Qasymeh, M.*, +, *JPHOT April 2020 7500212*
- Navigation Ranging Scheme Based on Microwave-Optical Entanglement Prepared by Electro-Opto-Mechanical Converters. *Luo, J.*, +, *JPHOT April 2020 7500415*
- Sixteen-Pixel NbN Nanowire Single Photon Detector Coupled With 300- μ m Fiber. *Chen, Q.*, +, *JPHOT Feb. 2020 6800112*
- Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. *Wenclawiak, M.*, +, *JPHOT Oct. 2020 5900608*
- Twin Photonic Hooks Generated by Twin-Ellipse Microcylinder. *Shen, X.*, +, *JPHOT June 2020 6500609*
- Quantum well devices**
- Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y.*, +, *JPHOT April 2020 2400207*

On the Impact of Electron Leakage on the Efficiency Droop for AlGaIn Based Deep Ultraviolet Light Emitting Diodes. *Chu, C.*, +, *JPHOT June 2020 1600207*

Quantum well lasers

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D.*, +, *JPHOT Dec. 2020 1504612*

Tailored Transverse Mode Vertical-Cavity Surface-Emitting Laser: Hollow Laser Beam Emission through Circle Aperture. *Zhou, Y.*, +, *JPHOT Aug. 2020 1503106*

Vertically Coupled Partially Tapered Ridge Waveguide Semiconductor FP Laser With Improved Divergence Angles. *Lan, M.*, +, *JPHOT Oct. 2020 1504312*

R

Radiation effects

Recent Advances in Silica Glass Optical Fiber for Dosimetry Applications. *Zubair, H.*, +, *JPHOT June 2020 6801525*

Radiation pressure

Controllable Droplet Generators by Light-Heat Energy Conversion for Selective Particle Encapsulation. *Chen, Y.*, +, *JPHOT Oct. 2020 7103109*

Design of Partially Suspended Silicon Nitride Slot Waveguides for Efficient Forward Stimulated Brillouin Scattering. *Wang, K.*, +, *JPHOT Aug. 2020 4501211*

Optical Trapping and Separation of Metal Nanoparticles by Cylindrical Metalenses With Phase Gradients. *Shen, Z.*, +, *JPHOT Aug. 2020 4600810*

Radiation therapy

Fluence as a Function of Weight: A Photobiomodulation Therapy (PBMT) Spinal Cord Injury (SCI) Rat Model—A Computational Study. *Shuaib, A.*, +, *JPHOT Dec. 2020 3700808*

Radio access networks

Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz. *Vallejo, L.*, +, *JPHOT Feb. 2020 5500309*

Optimizing Handover Parameters by Q-Learning for Heterogeneous Radio-Optical Networks. *Shao, S.*, +, *JPHOT Feb. 2020 7900615*

Radio links

Dynamic Physical-Layer Secured Link in a Mobile MIMO VLC System. *Younus, O.I.*, +, *JPHOT June 2020 7902814*

Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D.*, +, *JPHOT Dec. 2020 5502814*

Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. *Zhang, J.*, +, *JPHOT April 2020 7902011*

Radio spectrum management

Broadband Microwave Spectrum Sensing Based on Photonic RF Channelization and Compressive Sampling. *Yang, B.*, +, *JPHOT Feb. 2020 5500109*

On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference. *Erdogan, E.*, +, *JPHOT Feb. 2020 7900313*

Radio transmitters

Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J.*, +, *JPHOT June 2020 5501414*

Radio-over-fiber

A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation. *Zhang, H.*, +, *JPHOT Feb. 2020 5500208*

A Simplified Radio-Over-Fiber System for Over 100-km Long-Reach n-QAM Transmission. *Shiu, R.*, +, *JPHOT June 2020 7902908*

D-band Millimeter Wave Generation and Transmission Through Radio-Over-Fiber System. *Li, J.L.*, +, *JPHOT April 2020 5500708*

Dual-Channel Phase-Tunable Down Converter With LO Frequency Doubling. *Wang, Y.*, +, *JPHOT Aug. 2020 5501710*

Filterless Radio-Over-Fiber System to Generate 40 and 80 GHz Millimeter-Wave. *Wu, Z.*, +, *JPHOT Dec. 2020 5502313*

Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz. *Vallejo, L.*, +, *JPHOT Feb. 2020 5500309*

Multi-Antenna GNSS-Over-Fiber Architecture for Extensive Remote Multi-Baseline Network. *Liu, P.*, +, *JPHOT June 2020 5501210*

Photonic Approach for Generation and Fast Switching of Binary Digitally Modulated RF Signals. *Feng, X.*, +, *JPHOT Oct. 2020 5502208*

Polarization Division Multiplexing-Based Hybrid Microwave Photonic Links for Simultaneous mmW and Sub-6 GHz Wireless Transmissions. *Nguyen, D.*, +, *JPHOT Dec. 2020 5502814*

Real-Time RF Multi-Dimensional Signal Switching Using Polarization-Dependent Optical Mixing. *Liu, Q.*, +, *JPHOT April 2020 5500808*

Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J.*, +, *JPHOT June 2020 5501414*

Radiofrequency filters

Integrated Optical Delay Line Based on a Loopback Arrayed Waveguide Grating for Radio-frequency Filtering. *Wang, X.*, +, *JPHOT June 2020 6600911*

Radiofrequency interference

On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference. *Erdogan, E.*, +, *JPHOT Feb. 2020 7900313*

Optical Multipath RF Self-Interference Cancellation Based on Phase Modulation for Full-Duplex Communication. *Su, X.*, +, *JPHOT Aug. 2020 7102114*

User-Centric Access Scheme Based on Interference Management for Indoor VLC-WIFI Heterogeneous Networks. *Liu, H.*, +, *JPHOT Aug. 2020 7903712*

Raman lasers

13.7-W 588-nm Yellow Laser Generation by Frequency Doubling of 885-nm Side-Pumped Nd:YAG-YVO₄ Intracavity Raman Laser. *Sun, B.*, +, *JPHOT April 2020 1501607*

A High Efficient Dual-Wavelength Mid-Infrared Optical Parametric Oscillator Pumped by the Raman Fiber Oscillator. *Feng, J.*, +, *JPHOT June 2020 1502908*

A Raman-Pumped Dispersion and Nonlinearity Compensating Fiber For Fiber Optic Communications. *Bidaki, E.*, +, *JPHOT Feb. 2020 7200117*

Efficient and Tunable 1.6- μ m MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO₄/YVO₄ Raman Laser. *Zhao, L.*, +, *JPHOT Feb. 2020 1500107*

Raman scattering

Weak-Seed Induced Enhancement of Stimulated Raman Scattering in Distributed Side-Pumped Yb-Doped Fiber Amplifiers. *Chen, H.*, +, *JPHOT Dec. 2020 7103412*

Raman spectra

Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber. *Li, G.*, +, *JPHOT April 2020 1501009*

Random media

Effects of Grain Morphology on Nonlinear Conversion Efficiency of Random Quasi-Phase Matching in Polycrystalline Materials. *Liu, K.*, +, *JPHOT Dec. 2020 2200910*

Random sequences

Broadband Microwave Spectrum Sensing Based on Photonic RF Channelization and Compressive Sampling. *Yang, B.*, +, *JPHOT Feb. 2020 5500109*

Rapid thermal annealing

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K.*, +, *JPHOT Oct. 2020 2200611*

Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y.*, +, *JPHOT April 2020 2400207*

Ray tracing

Angular Color Uniformity Enhancement for Color-Mixed LEDs by Introducing a Diffusing Coating Layer. *Zhu, X.*, +, *JPHOT Aug. 2020 8200712*

Establishment and Solution for a Mathematical Model of Multiple Diffuse Reflection. *Zhu, Z.*, +, *JPHOT Aug. 2020 6500917*

Freeform Surface Graded Optimization of Deformable Mirrors in Integrated Zoom and Image Stabilization System Through Vectorial Ray Tracing and Image Point Freezing Method. *Ning, Y.*, +, *JPHOT Feb. 2020 6900316*

Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F.*, +, *JPHOT Aug. 2020 7904512*

Rayleigh channels

On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference. *Erdogan, E.*, +, *JPHOT Feb. 2020 7900313*

Rayleigh scattering

1310 nm Narrow Linewidth Laser Assisted by the Feedback of Double-FBGs. *Iroegbu, P.I.*, +, *JPHOT Oct. 2020 1503612*

High SNR Φ -OTDR Based on Frequency and Wavelength Diversity With Differential Vector Aggregation Method. *Gu, J.*, +, *JPHOT Dec. 2020 7103612*

Readout electronics

Characterize the Speed of a Photon-Number-Resolving Superconducting Nanowire Detector. *Tao, X.*, +, *JPHOT Aug. 2020 4501308*

Simulation of the Electrostatic Distribution in the Proximity Focusing Structure of an EBCMOS. *Wang, W.*, +, *JPHOT June 2020 6901210*

Real-time systems

A Fast and High-Accuracy Real-Time Visible Light Positioning System Based on Single LED Lamp With a Beacon. *Li, H.*, +, *JPHOT Dec. 2020 7906512*

VROHI: Visibility Recovery for Outdoor Hazy Image in Scattering Media. *Ju, M.*, +, *JPHOT Dec. 2020 7001015*

Rectangular waveguides

Modeling and Optimization of Vortex Modes Propagation in Rectangular Dielectric Waveguides. *Lyubopytov, V.S.*, +, *JPHOT Feb. 2020 6100117*

Rectifiers

High-Efficiency Pulse Width Modulation-Based Wireless Laser Power Transmission Step-Down System. *Wang, Y.*, +, *JPHOT April 2020 8400214*

Red shift

On-Chip Low-Power Gray Code Generation Based on Opto-Mechanical Microring Resonators. *Liu, L.*, +, *JPHOT June 2020 4500312*

Reduced instruction set computing

ARM-Embedded Implementation of a Novel Color Image Encryption and Transmission System Based on Optical Chaos. *Liu, B.*, +, *JPHOT Oct. 2020 3900817*

Reed-Solomon codes

Demonstration of a 2.34 Gbit/s Real-Time Single Silicon-Substrate Blue LED-Based Underwater VLC System. *Chen, M.*, +, *JPHOT Feb. 2020 7900211*

Reflection

Dimensional Transformations of Guided-Mode Resonant Photonic Lattices. *Watanabe, A.*, +, *JPHOT Dec. 2020 4502108*

Reflectivity

An Enhanced Distributed Acoustic Sensor With Large Temperature Tolerance Based on Ultra-Weak Fiber Bragg Grating Array. *Li, C.*, +, *JPHOT Aug. 2020 7202211*

Depth Scattering Characterization of Multi-Layer Turbid Media Based on Iterative Multi-Plane Reflectance Measurements. *Yariv, I.*, +, *JPHOT Oct. 2020 3700713*

Dimensional Transformations of Guided-Mode Resonant Photonic Lattices. *Watanabe, A.*, +, *JPHOT Dec. 2020 4502108*

Establishment and Solution for a Mathematical Model of Multiple Diffuse Reflection. *Zhu, Z.*, +, *JPHOT Aug. 2020 6500917*

Improved Performance of Passive-Matrix Micro-LED Displays Using a Multi-Function Passivation Structure. *Chen, P.*, +, *JPHOT Aug. 2020 7000711*

Towards Non-Contact Glucose Sensing in Aqueous Turbid Medium at $\square 1.1$ Meters Distance. *Piao, D.*, +, *JPHOT Aug. 2020 3700523*

Reflectometry

Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. *Li, K.*, +, *JPHOT Oct. 2020 1503811*

High SNR Φ -OTDR Based on Frequency and Wavelength Diversity With Differential Vector Aggregation Method. *Gu, J.*, +, *JPHOT Dec. 2020 7103612*

Refractive index

Actively Q-Switched Tm:YAP Laser Constructed Using an Electro-Optic Periodically Poled Lithium Niobate Bragg Modulator. *Lin, S.*, +, *JPHOT Oct. 2020 1503509*

Air-Mode Photonic Crystal Micro-Ring Resonator With Enhanced Quality Factor for Refractive Index Sensing. *Xu, Y.*, +, *JPHOT June 2020 6601111*

Backward-Emitting Silicon Nitride Optical Phased Array Enabling Efficient Wavelength-Tuned Beam Steering. *Im, C.*, +, *JPHOT Oct. 2020 6601910*

Broadband High-Efficiency Electromagnetic Orbital Angular Momentum Beam Generation Based on a Dielectric Metasurface. *Lin, Z.*, +, *JPHOT June 2020 4600611*

Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits. *Yu, X.*, +, *JPHOT Oct. 2020 2200708*

Electro-absorption and Electro-optic Characterization of L-Band InAs/InP Quantum-dash Waveguide. *Alkhazraji, E.*, +, *JPHOT June 2020 6601010*

Employing Higher Order Cladding Modes of Fiber Bragg Grating for Analysis of Refractive Index Change in Volume and at the Surface. *Bandyopadhyay, S.*, +, *JPHOT Feb. 2020 7100313*

High-Sensitive Refractive Index Sensing Enabled by Topological Charge Evolution. *Lv, J.*, +, *JPHOT Oct. 2020 4501610*

Impact of Thermal-Induced Turbulent Distribution Along FSO Link on Transmission of Photonically Generated mmW Signals in the Frequency Range 26–40 GHz. *Vallejo, L.*, +, *JPHOT Feb. 2020 5500309*

Integrated Photonic Platform for Robust Differential Refractive Index Sensor. *Moras, A.L.*, +, *JPHOT Oct. 2020 6802910*

Light Diffraction From a Flexible Patterned Layer With Periodically Arranged Dimples. *Haldar, A.*, +, *JPHOT Oct. 2020 2700210*

Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y.*, +, *JPHOT April 2020 2400207*

Nonlinear Bound States in the Continuum of Etchless Lithium Niobate Metasurfaces. *Yang, Q.*, +, *JPHOT Oct. 2020 4601209*

Numerical Investigation of Parametric Frequency Dependence in the Modeling of Octave-Spanning Kerr Frequency Combs. *Zhao, Y.*, +, *JPHOT April 2020 6600509*

Optical Tunneling to Improve Light Extraction in Quantum Dot and Perovskite Light-Emitting Diodes. *Mei, G.*, +, *JPHOT Dec. 2020 1600314*

Phase-Matched Mid-Infrared Difference Frequency Generation Using a Nanostructured Gallium Arsenide Metamaterial With Nanoholes. *Otman, N.A.*, +, *JPHOT June 2020 5900110*

Polarization Coupling of X-Cut Thin Film Lithium Niobate Based Waveguides. *Wang, J.*, +, *JPHOT June 2020 2200310*

Probing Composite Vibrational Fingerprints in the Terahertz Range With Graphene Split Ring Resonator. *Mao, X.*, +, *JPHOT Oct. 2020 5900408*

Refractive Index Nanosensor With Simple Structure Based on Fano Resonance. *Guo, J.*, +, *JPHOT Aug. 2020 4800710*

Self-Defocusing of Light in Ethanol Around 1550 nm. *Yi, J.*, +, *JPHOT Feb. 2020 6100408*

Temperature Dependence of the Steering Angles of a Silicon Photonic Optical Phased Array. *Yepez, P.A.K.*, +, *JPHOT April 2020 6800813*

The Simulation of Vortex Modes in Twisted Few-Mode Fiber With Inverse-Parabolic Index Profile. *Zhang, Z.*, +, *JPHOT June 2020 7101908*

Tunable and Reconfigurable Dual-Band Chiral Metamirror. *Fan, J.*, +, *JPHOT Oct. 2020 4601108*

Twin Photonic Hooks Generated by Twin-Ellipse Microcylinder. *Shen, X.*, +, *JPHOT June 2020 6500609*

Weak One-Dimensional Field Confinement Silica Waveguides. *Zhao, C.*, +, *JPHOT Aug. 2020 2200511*

Refractive index measurement

Air-Mode Photonic Crystal Micro-Ring Resonator With Enhanced Quality Factor for Refractive Index Sensing. *Xu, Y.*, +, *JPHOT June 2020 6601111*

Employing Higher Order Cladding Modes of Fiber Bragg Grating for Analysis of Refractive Index Change in Volume and at the Surface. *Bandyopadhyay, S.*, +, *JPHOT Feb. 2020 7100313*

High-Sensitive Refractive Index Sensing Enabled by Topological Charge Evolution. *Lv, J.*, +, *JPHOT Oct. 2020 4501610*

Integrated Photonic Platform for Robust Differential Refractive Index Sensor. *Moras, A.L., +, JPHOT Oct. 2020 6802910*

Planar Plasmonic Terahertz Waveguide Based Upon One Dimensional Array of Pyramidal Corrugations and Refractive Index Sensing. *Dhriti, K., +, JPHOT Dec. 2020 4801010*

Probing Composite Vibrational Fingerprints in the Terahertz Range With Graphene Split Ring Resonator. *Mao, X., +, JPHOT Oct. 2020 5900408*

Refractive Index Nanosensor With Simple Structure Based on Fano Resonance. *Guo, J., +, JPHOT Aug. 2020 4800710*

Refractometers

Employing Higher Order Cladding Modes of Fiber Bragg Grating for Analysis of Refractive Index Change in Volume and at the Surface. *Bandyopadhyay, S., +, JPHOT Feb. 2020 7100313*

Regression analysis

Angle-of-Arrival (AOA) Visible Light Positioning (VLP) System Using Solar Cells With Third-Order Regression and Ridge Regression Algorithms. *Hong, C., +, JPHOT June 2020 7902605*

Entanglement of Microwave and Optical Fields Using Electrical Capacitor Loaded With Plasmonic Graphene Waveguide. *Qasymeh, M., +, JPHOT April 2020 7500212*

Towards Non-Contact Glucose Sensing in Aqueous Turbid Medium at $\square 1.1$ Meters Distance. *Piao, D., +, JPHOT Aug. 2020 3700523*

Traffic-Adaptive Inter Wavelength Load Balancing for TWDM PON. *Memon, K.A., +, JPHOT Feb. 2020 7200408*

Using Linear Interpolation to Reduce the Training Samples for Regression Based Visible Light Positioning System. *Wu, Y., +, JPHOT April 2020 7901305*

Relay networks (telecommunication)

Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas. *Miglani, R., +, JPHOT Aug. 2020 7904621*

On the Error Probability of Cognitive RF-FSO Relay Networks Over Rayleigh/EW Fading Channels With Primary-Secondary Interference. *Erdogan, E., +, JPHOT Feb. 2020 7900313*

Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. *Zhang, J., +, JPHOT April 2020 7902011*

Resonator filters

Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V., +, JPHOT Oct. 2020 4800913*

Resource allocation

Traffic-Adaptive Inter Wavelength Load Balancing for TWDM PON. *Memon, K.A., +, JPHOT Feb. 2020 7200408*

User-Centric Access Scheme Based on Interference Management for Indoor VLC-WIFI Heterogeneous Networks. *Liu, H., +, JPHOT Aug. 2020 7903712*

Reviews

Recent Advances in Silica Glass Optical Fiber for Dosimetry Applications. *Zubair, H., +, JPHOT June 2020 6801525*

Rhenium compounds

Watt-Level Continuous-Wave Mode-Locked Nd:YVO₄ Laser With ReSe₂ Saturable Absorber. *Xue, Y., +, JPHOT Oct. 2020 1503710*

Ridge waveguides

Polarization Coupling of σ -Cut Thin Film Lithium Niobate Based Waveguides. *Wang, J., +, JPHOT June 2020 2200310*

Vertically Coupled Partially Tapered Ridge Waveguide Semiconductor FP Laser With Improved Divergence Angles. *Lan, M., +, JPHOT Oct. 2020 1504312*

Ring lasers

An Erbium Fiber Laser With Single-Frequency Oscillation and Wavelength-Upconverted Output. *Yeh, C., +, JPHOT Oct. 2020 7102807*

Optical Property of Polarization-Maintaining Fiber Taper for Tunable Multi-Wavelength Fiber Laser Generation. *Yuan, F., +, JPHOT Feb. 2020 7100109*

Robot vision

High-Accuracy Robot Indoor Localization Scheme Based on Robot Operating System Using Visible Light Positioning. *Guan, W., +, JPHOT April 2020 7901716*

Robust control

A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M., +, JPHOT Dec. 2020 7906212*

Robustness

Extended Kalman Filter Based Linear Quadratic Regulator Control for Optical Wireless Communication Alignment. *Alalwan, A., +, JPHOT Dec. 2020 7907012*

Rubidium compounds

High Average Power Diode-Side-Pumped Intracavity Terahertz Parametric Source Based on Stimulated Polariton Scattering in RbTiOPO₄ Crystal. *Gao, F., +, JPHOT April 2020 1400109*

S

Sand

Sand-Dust Image Restoration Based on Reversing the Blue Channel Prior. *Gao, G., +, JPHOT April 2020 3900216*

Satellite antennas

Multi-Antenna GNSS-Over-Fiber Architecture for Extensive Remote Multi-Baseline Network. *Liu, P., +, JPHOT June 2020 5501210*

Satellite communication

Tunable Photonic Microwave Up-Converter Using Opto-Electronic Oscillator Based on Monolithic Integrated Three-Section Laser. *Meng, X., +, JPHOT Dec. 2020 5502909*

Satellite navigation

Multi-Antenna GNSS-Over-Fiber Architecture for Extensive Remote Multi-Baseline Network. *Liu, P., +, JPHOT June 2020 5501210*

Scattering

VROHI: Visibility Recovery for Outdoor Hazy Image in Scattering Media. *Ju, M., +, JPHOT Dec. 2020 7001015*

Schrodinger equation

Optical Gain Characteristics of BGaAs/GaP Quantum Wells. *Maczko, H.S., +, JPHOT Aug. 2020 6101013*

Search problems

Generalized Likelihood Block Detection for SPAD-Based Underwater VLC System. *Ji, Y., +, JPHOT Feb. 2020 7900510*

Indoor High Precision Three-Dimensional Positioning System Based on Visible Light Communication Using Improved Hybrid Bat Algorithm. *Chen, Y., +, JPHOT Oct. 2020 6802513*

Inverse Design of a Taper by Scatter Search Metaheuristic. *Franca-Vieira, L., +, JPHOT Aug. 2020 4501409*

Seismic waves

Highly Sensitive Photoacoustic Imaging: A New Strategy for Ultrahigh Spatial Resolution Seismic Physical Model Imaging. *Liu, X., +, JPHOT June 2020 6901011*

Noise Suppression of Distributed Acoustic Sensing Based on f - x Deconvolution and Wavelet Transform. *Sun, W., +, JPHOT Feb. 2020 7800208*

Seismology

Highly Sensitive Photoacoustic Imaging: A New Strategy for Ultrahigh Spatial Resolution Seismic Physical Model Imaging. *Liu, X., +, JPHOT June 2020 6901011*

Self-assembly

Sidewall Profile Dependent Nanostructured Ultrathin Solar Cells With Enhanced Light Trapping Capabilities. *Sun, T., +, JPHOT Feb. 2020 8400112*

Self-induced transparency

Tunable Electromagnetically Induced Transparency-Like Spectrum in Lithium Niobate on Insulator Platform With Narrow Linewidth. *Yu, W., +, JPHOT Oct. 2020 2700308*

Self-phase modulation

Nonlinear Spectrum Compression of Negatively Chirped Picosecond Pulses in Dispersion-Shifted Telecom Fiber. *Krylov, A., +, JPHOT April 2020 7100515*

Self-Defocusing of Light in Ethanol Around 1550 nm. *Yi, J., +, JPHOT Feb. 2020 6100408*

Semiconductor device breakdown

High Detection Rate Fast-Gated CMOS Single-Photon Avalanche Diode Module. *Renna, M., +, JPHOT Oct. 2020 6802312*

Semiconductor device models

3D Simple Monte Carlo Statistical Model for GaAs Nanowire Single Photon Avalanche Diode. *Xie, S., +, JPHOT Aug. 2020 6802008*

Semiconductor device noise

Impact of Temperature and Doping on the Performance of Ge/Ge_{1-x}Sn_x/Ge Heterojunction Phototransistors. *Kumar, H., +, JPHOT June 2020 6801814*

Semiconductor doping

450 nm Gallium Nitride Alternating Current Light-Emitting Diode. *Hartensveld, M., +, JPHOT Dec. 2020 8200906*

Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M., +, JPHOT June 2020 8200408*

Impact of Temperature and Doping on the Performance of Ge/Ge_{1-x}Sn_x/Ge Heterojunction Phototransistors. *Kumar, H., +, JPHOT June 2020 6801814*

Polarization Enhanced GaN Avalanche Photodiodes With p-type In_{0.05}Ga_{0.95}N Layer. *Wang, H., +, JPHOT Feb. 2020 6800606*

Semiconductor epitaxial layers

Optical Gain Characteristics of BGaAs/GaP Quantum Wells. *Maczko, H.S., +, JPHOT Aug. 2020 6101013*

Semiconductor growth

Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M., +, JPHOT June 2020 8200408*

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K., +, JPHOT Oct. 2020 2200611*

On the Impact of Electron Leakage on the Efficiency Droop for AlGaIn Based Deep Ultraviolet Light Emitting Diodes. *Chu, C., +, JPHOT June 2020 1600207*

Optical Gain Characteristics of BGaAs/GaP Quantum Wells. *Maczko, H.S., +, JPHOT Aug. 2020 6101013*

Semiconductor heterojunctions

Impact of Temperature and Doping on the Performance of Ge/Ge_{1-x}Sn_x/Ge Heterojunction Phototransistors. *Kumar, H., +, JPHOT June 2020 6801814*

Polarization Enhanced GaN Avalanche Photodiodes With p-type In_{0.05}Ga_{0.95}N Layer. *Wang, H., +, JPHOT Feb. 2020 6800606*

Semiconductor lasers

1310 nm Narrow Linewidth Laser Assisted by the Feedback of Double-FBGs. *Iroegbu, P.I., +, JPHOT Oct. 2020 1503612*

A Monolithic Integrated Dual-Wavelength DFB Laser With Equivalent Inverse-Gaussian Apodized Grating. *Yuan, B., +, JPHOT Dec. 2020 3030669*

A Sub-kHz Narrow-Linewidth, and Hundred-mW High-Output-Power Silicon-Based Er Silicate Laser With Hybrid Pump and Signal Co-Resonant Cavity. *Zhou, P., +, JPHOT Feb. 2020 1500212*

Blue Laser Diode System With an Enhanced Wavelength Tuning Range. *Mukhtar, S., +, JPHOT April 2020 1502110*

EWT-ASG: Empirical Wavelet Transform With Adaptive Savitzky-Golay Filtering for TDLAS. *He, J., +, JPHOT June 2020 7800712*

Experimental Investigations on Polarization Switching and Bistability in a 1550 nm VCSEL Subject to Orthogonal Optical Injection With Time-Varying Injection Power. *Wang, Q., +, JPHOT Oct. 2020 1504108*

Fourier and Inverse Fourier Transform Model for Delayed Self-interferometry System. *Zhang, L., +, JPHOT June 2020 5501511*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*

Nonlinear Dynamics Induced by Optical Injection in Optical Frequency Combs Generated by Gain-Switching of Laser Diodes. *Quirce, A., +, JPHOT Aug. 2020 1503314*

Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F., +, JPHOT Aug. 2020 7904512*

Simultaneous Generation of Multi-Channel Broadband Chaotic Signals Based on Two Unidirectionally Coupled WRC-FPLDs. *Hu, C., +, JPHOT Oct. 2020 1504008*

Spatial Beam Self-Cleaning in Tapered Yb-Doped GRIN Multimode Fiber With Decelerating Nonlinearity. *Niang, A., +, JPHOT April 2020 6500308*

Study on the Photoacoustic Technology to Simultaneous In-Situ Detection of the Cavity Ring-Down Spectrum for Multi-Optical Parameters. *Jin, H., +, JPHOT April 2020 6800711*

Toward Long-Distance Underwater Wireless Optical Communication Based on A High-Sensitivity Single Photon Avalanche Diode. *Chen, H., +, JPHOT June 2020 7902510*

Semiconductor nanotubes

Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule. *Zhang, W., +, JPHOT Feb. 2020 2200108*

Semiconductor optical amplifiers

Demonstration of 4 × 100 Gbit/s PAM-4 Transmission Over 40 km in an IM/DD System Based on Narrow Band DMLs. *Wang, K., +, JPHOT June 2020 7201908*

Dispersion and Nonlinearity Distortion Compensation of the QPSK/16QAM Signals Using Optical Phase Conjugation in Nonlinear SOAs. *Sobhanan, A., +, JPHOT Feb. 2020 7800107*

Enhancement of SOA-Based Scintillation Mitigation by PS-OOK Transmission in FSO Communication. *Hong, Y., +, JPHOT Aug. 2020 7903510*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D., +, JPHOT Dec. 2020 1504612*

Multi-Wavelength SOA Fiber Laser With Ultra-Narrow Wavelength Spacing Based on NPR Effect. *Zhou, X., +, JPHOT Oct. 2020 7202408*

Semiconductor quantum wells

450 nm Gallium Nitride Alternating Current Light-Emitting Diode. *Hartensveld, M., +, JPHOT Dec. 2020 8200906*

Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M., +, JPHOT June 2020 8200408*

High-Performance Semi-Polar InGaIn/GaN Green Micro Light-Emitting Diodes. *Xu, F., +, JPHOT Feb. 2020 2500107*

Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y., +, JPHOT April 2020 2400207*

Optical Gain Characteristics of BGaAs/GaP Quantum Wells. *Maczko, H.S., +, JPHOT Aug. 2020 6101013*

Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. *Wenclawiak, M., +, JPHOT Oct. 2020 5900608*

Ultraviolet Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M., +, JPHOT Oct. 2020 8200808*

Sensitivity analysis

Sensitivity-Based Structural Optimal Design With Bi-Directional Beam Propagation Method for Photonic Devices in High-Index-Contrast Waveguides. *Iguchi, A., +, JPHOT Oct. 2020 6602111*

Sensor arrays

An Enhanced Distributed Acoustic Sensor With Large Temperature Tolerance Based on Ultra-Weak Fiber Bragg Grating Array. *Li, C., +, JPHOT Aug. 2020 7202211*

Gold-Diaphragm Based Fabry-Perot Ultrasonic Sensor for Partial Discharge Detection and Localization. *Zhang, W., +, JPHOT June 2020 6801612*

Sequences

Neural Successive Cancellation Polar Decoder With Tanh-Based Modified LLR Over FSO Turbulence Channel. *Fang, J., +, JPHOT Dec. 2020 7906110*

Servomechanisms

A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M., +, JPHOT Dec. 2020 7906212*

Tip/tilt Alignment for a Fizeau Interferometer via Defocus-Based Sub-Spot Separation. *Lv, W., +, JPHOT Dec. 2020 3901113*

Set theory

A Fast Image Segmentation Algorithm Based on Saliency Map and Neutrosophic Set Theory. *Song, S., +, JPHOT Oct. 2020 3901016*

Shot noise

Systematic Analysis for fNIRS Measurement Combining Sensitivity and SNR Based on the Colin27 Brain Template. *Wang, Y., +, JPHOT Aug. 2020 3700413*

Signal detection

ANN-Assisted Real-Time Blind Signal Detection Over Time-Varying Doubly-Stochastic Poisson Channel for Indoor Optical Wireless Communications. *Arya, S.*, +, *JPHOT Oct. 2020 7904918*

Broadband Microwave Spectrum Sensing Based on Photonic RF Channelization and Compressive Sampling. *Yang, B.*, +, *JPHOT Feb. 2020 5500109*

Comparison of Geometrically Shaped and Probabilistically Shaped Bit-Loading DMT for Optical Interconnect System. *Ding, J.*, +, *JPHOT April 2020 7201008*

Hybrid OFDM-Digital Filter Multiple Access PONs Utilizing Spectrally Overlapped Digital Orthogonal Filtering. *Sankoh, A.*, +, *JPHOT Oct. 2020 7905311*

Wideband and Ambiguous-Free RF Channelizer Assisted Jointly by Spacing and Profile of Optical Frequency Comb. *Lu, X.*, +, *JPHOT June 2020 5500911*

Signal generators

D-Band mm-Wave SSB Vector Signal Generation Based on Cascaded Intensity Modulators. *Li, Y.*, +, *JPHOT April 2020 7201111*

Reconfigurable Photonic Generation of Binary Modulated Microwave Signals. *Ma, J.*, +, *JPHOT Dec. 2020 5503010*

Signal processing

Spectrum Intensity Ratio Detection for Frequency Domain Weak Measurement System. *Yang, Y.*, +, *JPHOT Aug. 2020 7800912*

Signal restoration

Dual Gm-APD Polarization Lidar to Acquire the Depth Image of Shallow Semitransparent Media With a Wide Laser Pulse. *Xu, L.*, +, *JPHOT Oct. 2020 6803310*

Signal sampling

Broadband Microwave Spectrum Sensing Based on Photonic RF Channelization and Compressive Sampling. *Yang, B.*, +, *JPHOT Feb. 2020 5500109*

Broadband Photonic Down-Conversion Preprocessor for ADC With Arcsine Equalization. *Guo, R.*, +, *JPHOT June 2020 5501316*

Signal to noise ratio

A Single-Mode Erbium Fiber Laser With Flat Power Output and Wide Wavelength Tunability. *Yeh, C.*, +, *JPHOT Dec. 2020 7202805*

High SNR Φ -OTDR Based on Frequency and Wavelength Diversity With Differential Vector Aggregation Method. *Gu, J.*, +, *JPHOT Dec. 2020 7103612*

Silicon

A Performance Study of Dielectric Metalens with Process-Induced Defects. *Zhou, Y.*, +, *JPHOT June 2020 4500414*

A Sub-kHz Narrow-Linewidth, and Hundred-mW High-Output-Power Silicon-Based Er Silicate Laser With Hybrid Pump and Signal Co-Resonant Cavity. *Zhou, P.*, +, *JPHOT Feb. 2020 1500212*

All-Silicon Energy-Efficient Optical Diode Using Opto-Mechanical Microring Resonators. *Xu, L.*, +, *JPHOT June 2020 4501009*

Automated Adaptation and Stabilization of a Tunable WDM Polarization-Independent Receiver on Active Silicon Photonic Platform. *Ma, M.*, +, *JPHOT Aug. 2020 4900411*

Bias-Free Silicon-Based Optical Single-Sideband Modulator Without 2nd-Order Sideband. *Keshavarz, H.*, +, *JPHOT Aug. 2020 5501816*

Compact, Broadband and Low-Loss Polarization Beam Splitter on Lithium-Niobate-On-Insulator Using a Silicon Nanowire Assisted Waveguide. *Zhang, L.*, +, *JPHOT Oct. 2020 6601906*

Compressive Sensing Based on Mesoscopic Chaos of Silicon Optomechanical Photonic Crystal. *Guo, P.*, +, *JPHOT Oct. 2020 6602009*

Design and Measurement of Ring-Gate Single Photon Avalanche Diode With Low Dark Count Rate. *Wang, Y.*, +, *JPHOT June 2020 6801711*

Dual-Mode GVD Tailoring in a Convex Waveguide. *Chen, W.*, +, *JPHOT Aug. 2020 6601506*

Electrically Erasable Optical I/O for Wafer Scale Testing of Silicon Photonic Integrated Circuits. *Yu, X.*, +, *JPHOT Oct. 2020 2200708*

High-Performance Microring Resonator Ge-on-Si Photodetectors by Optimizing Absorption Layer Length. *Cui, J.*, +, *JPHOT Aug. 2020 6802208*

Integrated Optical Delay Line Based on a Loopback Arrayed Waveguide Grating for Radio-frequency Filtering. *Wang, X.*, +, *JPHOT June 2020 6600911*

Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule. *Zhang, W.*, +, *JPHOT Feb. 2020 2200108*

Irrotational Nanobricks Based High-Efficiency Polarization-Independence Metasurfaces. *Wang, W.*, +, *JPHOT Aug. 2020 4501108*

OE-CAM: A Hybrid Opto-Electronic Content Addressable Memory. *Alkabani, Y.*, +, *JPHOT April 2020 6600114*

On-Chip Low-Power Gray Code Generation Based on Opto-Mechanical Microring Resonators. *Liu, L.*, +, *JPHOT June 2020 4500312*

Quasiperiodic Dielectric Gratings for Multiband Fiber-To-Chip Couplers. *Picin, O.J.*, +, *JPHOT Oct. 2020 7103010*

Sidewall Profile Dependent Nanostructured Ultrathin Solar Cells With Enhanced Light Trapping Capabilities. *Sun, T.*, +, *JPHOT Feb. 2020 8400112*

Stable Excitation of Orbital Angular Momentum States in Air-Core Fiber Seeded by an Integrated Optical Vortex Beam Emitter. *Wang, J.*, +, *JPHOT Aug. 2020 6601408*

Switchable Polarization Beam Splitter Based on GST-on-Silicon Waveguides. *Zhang, B.*, +, *JPHOT April 2020 6600610*

Temperature Dependence of the Steering Angles of a Silicon Photonic Optical Phased Array. *Yepez, P.A.K.*, +, *JPHOT April 2020 6800813*

Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing. *Hu, M.*, +, *JPHOT Aug. 2020 5900309*

Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μ m Wavelength Band. *Liu, Y.*, +, *JPHOT Aug. 2020 4900308*

Ultra-Wideband Signal Generation Based on a Silicon Segmented Mach-Zehnder Modulator. *Zhou, G.*, +, *JPHOT Dec. 2020 5502615*

Ultralow Loss and High Extinction Ratio TM-Pass Polarizer in Silicon Photonics. *Dhingra, N.*, +, *JPHOT Dec. 2020 6602311*

Wideband Rapidly Tunable Delay-Controlled Optoelectronic Oscillator. *Sanjari, P.*, +, *JPHOT Dec. 2020 6602409*

Silicon compounds

A Microwave Frequency Measurement System Based on Si₃N₄ Ring-Assisted Mach-Zehnder Interferometer. *Zhang, H.*, +, *JPHOT Aug. 2020 7102213*

A Performance Study of Dielectric Metalens with Process-Induced Defects. *Zhou, Y.*, +, *JPHOT June 2020 4500414*

Backward-Emitting Silicon Nitride Optical Phased Array Enabling Efficient Wavelength-Tuned Beam Steering. *Im, C.*, +, *JPHOT Oct. 2020 6601910*

Design of Partially Suspended Silicon Nitride Slot Waveguides for Efficient Forward Stimulated Brillouin Scattering. *Wang, K.*, +, *JPHOT Aug. 2020 4501211*

Enhanced Nonlinearity and Engineered Anomalous Dispersion in TeO₂-coated Si₃N₄ Waveguides. *Mbonde, H.M.*, +, *JPHOT April 2020 2200210*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D.*, +, *JPHOT Dec. 2020 1504612*

High-Power Femtosecond Pulse Generation From an All-Fiber Er-Doped Chirped Pulse Amplification System. *Wei, R.*, +, *JPHOT April 2020 3200208*

Improved Performance of Passive-Matrix Micro-LED Displays Using a Multi-Function Passivation Structure. *Chen, P.*, +, *JPHOT Aug. 2020 7000711*

Large-Scale Integrated Multi-Lines Optical Phased Array Chip. *Zhang, L.*, +, *JPHOT Aug. 2020 6601208*

Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y.*, +, *JPHOT April 2020 2400207*

Modeling and Optimization of Vortex Modes Propagation in Rectangular Dielectric Waveguides. *Lyubopytov, V.S.*, +, *JPHOT Feb. 2020 6100117*

Numerical Investigation of Parametric Frequency Dependence in the Modeling of Octave-Spanning Kerr Frequency Combs. *Zhao, Y.*, +, *JPHOT April 2020 6600509*

Reconfigurable Rectangular Filter With Continuously Tunable Bandwidth and Wavelength. *Li, J.*, +, *JPHOT Aug. 2020 6601309*

- The Design of CMOS-Compatible Plasmonic Waveguides for Intra-Chip Communication. *Liu, Y., +, JPHOT Oct. 2020 4800810*
- Ultra-Broadband, Fabrication Tolerant Optical Coupler for Arbitrary Splitting Ratio Using Particle Swarm Optimization Algorithm. *Leng, L., +, JPHOT Oct. 2020 6602212*
- Vanadium Dioxide-Based Bifunctional Metamaterial for Terahertz Waves. *Zhang, M., +, JPHOT Feb. 2020 4600109*
- Weak One-Dimensional Field Confinement Silica Waveguides. *Zhao, C., +, JPHOT Aug. 2020 2200511*
- Silicon nitride**
- Compact and Broadband Edge Coupler Based on Multi-Stage Silicon Nitride Tapers. *Bhandari, B., +, JPHOT Dec. 2020 6602511*
- Silicon photonics**
- Design of Silicon Photonic Structures for Multi-Site, Multi-Spectral Optogenetics in the Deep Brain. *Nazempour, R., +, JPHOT Dec. 2020 4200107*
- Silicon-on-insulator**
- Etched Silicon-on-Insulator Microring Resonator for Ultrasound Measurement. *Yang, W., +, JPHOT April 2020 6801409*
- Integrated Photonic Platform for Robust Differential Refractive Index Sensor. *Moras, A.L., +, JPHOT Oct. 2020 6802910*
- Interleaved Subwavelength Gratings Strip Waveguide Based TM Pass Polarizer on SOI Platform. *Xu, Z., +, JPHOT April 2020 4900110*
- Ultralow Loss and High Extinction Ratio TM-Pass Polarizer in Silicon Photonics. *Dhingra, N., +, JPHOT Dec. 2020 6602311*
- Silver**
- Multi-Channel Photonic Crystal Fiber Based Surface Plasmon Resonance Sensor for Multi-Analyte Sensing. *Yasli, A., +, JPHOT Feb. 2020 6800515*
- Optical Trapping and Separation of Metal Nanoparticles by Cylindrical Metalenses With Phase Gradients. *Shen, Z., +, JPHOT Aug. 2020 4600810*
- Tunable and Multiple Plasmon-Induced Transparency in a Metasurface Comprised of Silver S-Shaped Resonator and Rectangular Strip. *Bilal, R.M.H., +, JPHOT June 2020 4500913*
- Tunable Anisotropic Perfect Enhancement Absorption in Black Phosphorus-Based Metasurfaces. *Tang, B., +, JPHOT June 2020 4500209*
- Simulation**
- Constant Weight Space-Time Codes for Dimmable MIMO-VLC Systems. *Guo, J., +, JPHOT Dec. 2020 7906815*
- Single-wall carbon nanotubes**
- Integration of Semiconducting Carbon Nanotubes Within a Silicon Photonic Molecule. *Zhang, W., +, JPHOT Feb. 2020 2200108*
- Skin**
- Fluence as a Function of Weight: A Photobiomodulation Therapy (PBMT) Spinal Cord Injury (SCI) Rat Model—A Computational Study. *Shuaib, A., +, JPHOT Dec. 2020 3700808*
- Soft lithography**
- Light Diffraction From a Flexible Patterned Layer With Periodically Arranged Dimples. *Haldar, A., +, JPHOT Oct. 2020 2700210*
- Software defined networking**
- Ultra-High Resolution Wideband on-Chip Spectrometer. *Hasan, M., +, JPHOT Oct. 2020 6802617*
- Sol-gel processing**
- Weak One-Dimensional Field Confinement Silica Waveguides. *Zhao, C., +, JPHOT Aug. 2020 2200511*
- Solar absorber-converters**
- AquaE-lite Hybrid-Solar-Cell Receiver-Modality for Energy-Autonomous Terrestrial and Underwater Internet-of-Things. *Kong, M., +, JPHOT Aug. 2020 7904713*
- Solar cells**
- Angle-of-Arrival (AOA) Visible Light Positioning (VLP) System Using Solar Cells With Third-Order Regression and Ridge Regression Algorithms. *Hong, C., +, JPHOT June 2020 7902605*
- AquaE-lite Hybrid-Solar-Cell Receiver-Modality for Energy-Autonomous Terrestrial and Underwater Internet-of-Things. *Kong, M., +, JPHOT Aug. 2020 7904713*
- Enhancing the Performance of Two-Terminal All-Perovskite Tandem Solar Cells by the Optical Coupling Layer Beyond the Antireflection Function. *Liu, C., +, JPHOT Oct. 2020 8400312*
- Sidewall Profile Dependent Nanostructured Ultrathin Solar Cells With Enhanced Light Trapping Capabilities. *Sun, T., +, JPHOT Feb. 2020 8400112*
- Solid lasers**
- 13.7-W 588-nm Yellow Laser Generation by Frequency Doubling of 885-nm Side-Pumped Nd:YAG-YVO₄ Intracavity Raman Laser. *Sun, B., +, JPHOT April 2020 1501607*
- Actively Q-Switched Tm:YAP Laser Constructed Using an Electro-Optic Periodically Poled Lithium Niobate Bragg Modulator. *Lin, S., +, JPHOT Oct. 2020 1503509*
- Carrier-Envelope Offset Frequency Stabilization of a Thin-Disk Laser Oscillator via Depletion Modulation. *Andrade, J.R.C., +, JPHOT April 2020 1500609*
- Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser. *Huang, H., +, JPHOT June 2020 1503008*
- Efficient and Tunable 1.6- μ m MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO₄/YVO₄ Raman Laser. *Zhao, L., +, JPHOT Feb. 2020 1500107*
- Generation of 1.8-W Average Power From a Diode-Pumped Femtosecond Rotary Nd:Glass Disk Laser. *Gong, L., +, JPHOT Feb. 2020 1500306*
- Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber. *Li, G., +, JPHOT April 2020 1501009*
- High Average Power Diode-Side-Pumped Intracavity Terahertz Parametric Source Based on Stimulated Polariton Scattering in RbTiOPO₄ Crystal. *Gao, F., +, JPHOT April 2020 1400109*
- High Power Ho:YAP Laser With 107 W of Output Power at 2117 nm. *Tang, J., +, JPHOT April 2020 1501107*
- High-Power High-Repetition-Rate Tunable Yellow Light Generation by an Intracavity-Frequency-Doubled Singly Resonant Optical Parametric Oscillator. *Sun, B., +, JPHOT June 2020 1502310*
- Watt-Level Continuous-Wave Mode-Locked Nd:YVO₄ Laser With ReSe₂ Saturable Absorber. *Xue, Y., +, JPHOT Oct. 2020 1503710*
- Solitons**
- Corrections to “Evolution of Soliton Rain in a TM-Doped Passive Mode-Locked All-Fiber Laser” [Aug 20 Art. no. 1503408]. *Wang, F., +, JPHOT Oct. 2020 9700101*
- Corrections to “Evolution of Soliton Rain in a Tm-Doped Passive Mode-Locked All-Fiber Laser” [Aug 20 Art. no. 1503408]. *Wang, F., +, JPHOT Dec. 2020 9700301*
- Solubility**
- Enhanced Nonlinearity and Engineered Anomalous Dispersion in TeO₂-coated Si₃N₄ Waveguides. *Mbonde, H.M., +, JPHOT April 2020 2200210*
- Space communication links**
- Prediction Algorithm of Key Design Parameters for Space Chaotic Optical Communication System. *Li, M., +, JPHOT Aug. 2020 7904308*
- Space radiation**
- Investigation of the Radiation Effect on BOTDR Under Low Space Radiation Doses. *Li, M., +, JPHOT Dec. 2020 6803508*
- Space-time codes**
- Constant Weight Space-Time Codes for Dimmable MIMO-VLC Systems. *Guo, J., +, JPHOT Dec. 2020 7906815*
- Spatial light modulators**
- Generation of Phase-Only Fourier Hologram Based on Double Phase Method and Quantization Error Analysis. *Wu, Y., +, JPHOT Oct. 2020 7000913*
- Hybrid Angular Gradient Phase Grating for Measuring the Orbital Angular Momentum of Perfect Optical Vortex Beams. *Chu, C., +, JPHOT June 2020 7902409*
- Improve The Capacity Of Data Transmission In Orbital Angular Momentum Multiplexing By Adjusting Link Structure. *Zhao, L., +, JPHOT June 2020 5501111*
- Spatiotemporal phenomena**
- Excitation of mitochondria-Endoplasmic reticulum Ca²⁺ coupling by femtosecond-Laser photostimulation. *Shi, F., +, JPHOT Aug. 2020 3700308*
- Multiple-Input Single-Output Ghost Imaging. *Wang, L., +, JPHOT June 2020 6901113*

Speckle

Imaging and Tracking Through Scattering Medium With Low Bit Depth Speckle. *Xu, Q.*, +, *JPHOT April 2020 6900807*

Multiple-Input Single-Output Ghost Imaging. *Wang, L.*, +, *JPHOT June 2020 6901113*

Transmission Matrix Based Image Super-Resolution Reconstruction Through Scattering Media. *Zhou, S.*, +, *JPHOT June 2020 6901311*

Spectral analysis

Broadband Microwave Spectrum Sensing Based on Photonic RF Channelization and Compressive Sampling. *Yang, B.*, +, *JPHOT Feb. 2020 5500109*

Spectral analyzers

Spectrum Intensity Ratio Detection for Frequency Domain Weak Measurement System. *Yang, Y.*, +, *JPHOT Aug. 2020 7800912*

Spectral efficiency

Constant Weight Space-Time Codes for Dimmable MIMO-VLC Systems. *Guo, J.*, +, *JPHOT Dec. 2020 7906815*

Spectral line breadth

A Dual-Frequency Faraday Laser. *Shi, T.*, +, *JPHOT Aug. 2020 1503211*

Dynamic Responses of Cylindrical Whispering Gallery Mode Revealed by Axial Liquid Disturbance. *Zhao, H.*, +, *JPHOT June 2020 7102009*

Efficient and Tunable 1.6- μm MgO:PPLN Optical Parametric Oscillator Pumped by Nd:YVO₄/YVO₄ Raman Laser. *Zhao, L.*, +, *JPHOT Feb. 2020 1500107*

Spectral line broadening

Near-Infrared Supercontinuum and Ultrashort Pulses Generated Based on Phase-Mismatched Cascaded Frequency Conversion in DSTMS Crystal. *Qian, J.*, +, *JPHOT June 2020 3200306*

Spectral line narrowing

A Sub-kHz Narrow-Linewidth, and Hundred-mW High-Output-Power Silicon-Based Er Silicate Laser With Hybrid Pump and Signal Co-Resonant Cavity. *Zhou, P.*, +, *JPHOT Feb. 2020 1500212*

Spectral line shift

Dynamic Responses of Cylindrical Whispering Gallery Mode Revealed by Axial Liquid Disturbance. *Zhao, H.*, +, *JPHOT June 2020 7102009*

High-Performance Semi-Polar InGaN/GaN Green Micro Light-Emitting Diodes. *Xu, F.*, +, *JPHOT Feb. 2020 2500107*

Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y.*, +, *JPHOT April 2020 2400207*

Spectrochemical analysis

EWT-ASG: Empirical Wavelet Transform With Adaptive Savitzky-Golay Filtering for TDLAS. *He, J.*, +, *JPHOT June 2020 7800712*

Spectrometers

Compressive Optical Spectrometry Based on Sequency-Ordered Hadamard Transform. *Zhang, Y.*, +, *JPHOT Oct. 2020 3900908*

Ultra-High Resolution Wideband on-Chip Spectrometer. *Hasan, M.*, +, *JPHOT Oct. 2020 6802617*

Spin coating

High Precision Fabrication Method of Fresnel Diffractive Lenses on Ultrathin Membrane for Imaging Application. *Liu, X.*, +, *JPHOT Aug. 2020 2400310*

Splicing

All-Fiber High Power Supercontinuum Generation by Cascaded Photonic Crystal Fibers Ranging From 370 nm to 2400 nm. *Zhang, H.*, +, *JPHOT April 2020 7101608*

Stimulated Brillouin Scattering by Dual Lasers Pumping in WGM Microcavities. *Chen, Z.*, +, *JPHOT Dec. 2020 6101108*

Split ring resonators

Probing Composite Vibrational Fingerprints in the Terahertz Range With Graphene Split Ring Resonator. *Mao, X.*, +, *JPHOT Oct. 2020 5900408*

The Impact of Structural Parameters of Split-Ring Resonators on the Terahertz Radiation Characteristics of Micro-Structured Photoconductive Antennas: A Simulation Study. *Deng, H.*, +, *JPHOT June 2020 5900213*

Spontaneous emission

Amplification Characteristics of a Coumarin 460-Based Tunable Amplifier. *Shen, J.*, +, *JPHOT April 2020 1501908*

Spray coating techniques

Angular Color Uniformity Enhancement for Color-Mixed LEDs by Introducing a Diffusing Coating Layer. *Zhu, X.*, +, *JPHOT Aug. 2020 8200712*

Sputter deposition

An Amorphous (Al_{0.12}Ga_{0.88})₂O₃ Deep Ultraviolet Photodetector. *Liu, S.*, +, *JPHOT Aug. 2020 6801908*

SQUIDS

Enhancement of Tetrahedral Chromium (Cr⁴⁺) Concentration for High-Gain in Single-Mode Crystalline Core Fibers. *Liu, C.*, +, *JPHOT April 2020 7200811*

Stark effect

Optical-Stark Induced Distortions in Vortex Momentum Distributions of p-Orbital Electrons of Neon Atoms. *He, Y.*, +, *JPHOT Dec. 2020 6101209*

Stereo image processing

A Novel 3D Vector Decomposition for Color-Image Encryption. *Zhu, Z.*, +, *JPHOT April 2020 7800614*

Advanced Three-Dimensional Visualization System for an Integral Imaging Microscope Using a Fully Convolutional Depth Estimation Network. *Kwon, K.*, +, *JPHOT Aug. 2020 3900714*

Influence of Display Luminance on Visual Discomfort in Dark Ambient Based on Haemodynamic Response. *Shi, Y.*, +, *JPHOT Aug. 2020 7000814*

Three-Dimensional Measurement for Rigid Moving Objects Based on Multi-Fringe Projection. *Wang, J.*, +, *JPHOT Aug. 2020 6802114*

Stimulated Brillouin scattering

2.5 kW Narrow Linewidth Linearly Polarized All-Fiber MOPA With Cascaded Phase-Modulation to Suppress SBS Induced Self-Pulsing. *Wang, Y.*, +, *JPHOT June 2020 1502815*

Cladding-Pumped Erbium-Ytterbium Co-Doped Fiber Amplifier With Dual-Wavelength Auxiliary Signal Injection of 1030 and 1040 nm. *Wei, S.*, +, *JPHOT April 2020 1501509*

Design of Partially Suspended Silicon Nitride Slot Waveguides for Efficient Forward Stimulated Brillouin Scattering. *Wang, K.*, +, *JPHOT Aug. 2020 4501211*

Frequency-Sweep-Range-Reconfigurable Complementary Linearly Chirped Microwave Waveform Pair Generation by Using a Fourier Domain Mode Locking Optoelectronic Oscillator Based on Stimulated Brillouin Scattering. *Zhang, L.*, +, *JPHOT June 2020 5501010*

Simple and Flexible All-Optical Microwave Photonic Frequency Converter Based on Stimulated Brillouin Scattering Effect. *Wang, Y.*, +, *JPHOT Oct. 2020 7801108*

Stimulated Brillouin Scattering by Dual Lasers Pumping in WGM Microcavities. *Chen, Z.*, +, *JPHOT Dec. 2020 6101108*

Stochastic processes

ANN-Assisted Real-Time Blind Signal Detection Over Time-Varying Doubly-Stochastic Poisson Channel for Indoor Optical Wireless Communications. *Arya, S.*, +, *JPHOT Oct. 2020 7904918*

Strain measurement

An Enhanced Distributed Acoustic Sensor With Large Temperature Tolerance Based on Ultra-Weak Fiber Bragg Grating Array. *Li, C.*, +, *JPHOT Aug. 2020 7202211*

Highly Sensitive FBG Strain Sensor With Enhanced Measurement Range Based On Higher Order FWM. *Ghosh, C.*, +, *JPHOT Feb. 2020 6800407*

Strain sensors

An Enhanced Distributed Acoustic Sensor With Large Temperature Tolerance Based on Ultra-Weak Fiber Bragg Grating Array. *Li, C.*, +, *JPHOT Aug. 2020 7202211*

Highly Sensitive FBG Strain Sensor With Enhanced Measurement Range Based On Higher Order FWM. *Ghosh, C.*, +, *JPHOT Feb. 2020 6800407*

Ultrahigh-Resolution Fiber-Optic Sensing Based on High-Finesse, Meter-Long Fiber Fabry-Perot Resonators. *Hoque, N.M.R.*, +, *JPHOT June 2020 7101109*

Submillimeter wave antennas

The Impact of Structural Parameters of Split-Ring Resonators on the Terahertz Radiation Characteristics of Micro-Structured Photoconductive Antennas: A Simulation Study. *Deng, H.*, +, *JPHOT June 2020 5900213*

Submillimeter wave detectors

High Sensitivity Terahertz Biosensor Based on Goos-Hänchen Effect in Graphene. *Liu, J.*, +, *JPHOT April 2020 6801206*

Submillimeter wave generation

Terahertz-Wave Generation Based on Optical Frequency Comb and Single Mach-Zehnder Modulator. *Yu, J., +, JPHOT Feb. 2020 7900808*

Submillimeter wave measurement

High Sensitivity Terahertz Biosensor Based on Goos-Hänchen Effect in Graphene. *Liu, J., +, JPHOT April 2020 6801206*

Sugar

Towards Non-Contact Glucose Sensing in Aqueous Turbid Medium at $\square 1.1$ Meters Distance. *Piao, D., +, JPHOT Aug. 2020 3700523*

Superconducting photodetectors

Characterize the Speed of a Photon-Number-Resolving Superconducting Nanowire Detector. *Tao, X., +, JPHOT Aug. 2020 4501308*

Sixteen-Pixel NbN Nanowire Single Photon Detector Coupled With 300- μm Fiber. *Chen, Q., +, JPHOT Feb. 2020 6800112*

Supercontinuum generation

All-Fiber High Power Supercontinuum Generation by Cascaded Photonic Crystal Fibers Ranging From 370 nm to 2400 nm. *Zhang, H., +, JPHOT April 2020 7101608*

Near-Infrared Supercontinuum and Ultrashort Pulses Generated Based on Phase-Mismatched Cascaded Frequency Conversion in DSTMS Crystal. *Qian, J., +, JPHOT June 2020 3200306*

Ultraviolet-Extended Supercontinuum Generation in Zero-Dispersion Wavelength Decreasing Photonic Crystal Fibers. *Bi, W., +, JPHOT Dec. 2020 3200608*

Superradiance

Cladding-Pumped Erbium-Ytterbium Co-Doped Fiber Amplifier With Dual-Wavelength Auxiliary Signal Injection of 1030 and 1040 nm. *Wei, S., +, JPHOT April 2020 1501509*

Frequency Quasi-Linear Swept Light Source Based on Multi-Frequency Time-Matched Spectrum Stitching. *Wen, L., +, JPHOT Dec. 2020 1400208*

Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. *Wenclawiak, M., +, JPHOT Oct. 2020 5900608*

Support vector machines

Optimized Support Vector Machine Assisted BOTDA for Temperature Extraction With Accuracy Enhancement. *Zhu, H., +, JPHOT Feb. 2020 6800214*

Polarimetric Identification of 3D-Printed Nano Particle Encoded Optical Codes. *Ahmadi, K., +, JPHOT June 2020 6500810*

Surface emitting lasers

ARM-Embedded Implementation of a Novel Color Image Encryption and Transmission System Based on Optical Chaos. *Liu, B., +, JPHOT Oct. 2020 3900817*

Effects of Lateral Optical Confinement In GaN VCSELs With Double Dielectric DBRs. *Xu, R., +, JPHOT April 2020 1501708*

Experimental Investigations on Polarization Switching and Bistability in a 1550 nm VCSEL Subject to Orthogonal Optical Injection With Time-Varying Injection Power. *Wang, Q., +, JPHOT Oct. 2020 1504108*

Tailored Transverse Mode Vertical-Cavity Surface-Emitting Laser: Hollow Laser Beam Emission through Circle Aperture. *Zhou, Y., +, JPHOT Aug. 2020 1503106*

Surface enhanced Raman scattering

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K., +, JPHOT Oct. 2020 2200611*

Surface morphology

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K., +, JPHOT Oct. 2020 2200611*

Surface plasmon polaritons

Copying a Plasmonic Signal From an Optical Signal. *Koo, S., +, JPHOT Aug. 2020 4800607*

Entanglement of Microwave and Optical Fields Using Electrical Capacitor Loaded With Plasmonic Graphene Waveguide. *Qasymeh, M., +, JPHOT April 2020 7500212*

Surface plasmon resonance

A Surface Plasmon Resonance Temperature Sensing Unit Based on a Graphene Oxide Composite Photonic Crystal Fiber. *Liang, H., +, JPHOT June 2020 7201811*

Direct and Practical Identification for Back Focal Plane Based Surface Plasmon Microscopy. *Zhang, B., +, JPHOT Feb. 2020 6900208*

Multi-Channel Photonic Crystal Fiber Based Surface Plasmon Resonance Sensor for Multi-Analyte Sensing. *Yasli, A., +, JPHOT Feb. 2020 6800515*

Probing Composite Vibrational Fingerprints in the Terahertz Range With Graphene Split Ring Resonator. *Mao, X., +, JPHOT Oct. 2020 5900408*

Tunable Electro- and All-Optical Switch Based on Epsilon-Near-Zero Metasurface. *Xie, Z.T., +, JPHOT Aug. 2020 4501510*

Surface plasmons

Direct and Practical Identification for Back Focal Plane Based Surface Plasmon Microscopy. *Zhang, B., +, JPHOT Feb. 2020 6900208*

Investigation of Enhanced Transmission and Beaming Effect Through an InSb Subwavelength Grating With a Slit at the Terahertz Range. *Liu, X., +, JPHOT Feb. 2020 4800112*

Planar Plasmonic Terahertz Waveguide Based Upon One Dimensional Array of Pyramidal Corrugations and Refractive Index Sensing. *Dhriti, K., +, JPHOT Dec. 2020 4801010*

Surface Plasmon Microscopy Versus Optical Microscopy: Ez Dominates in SPM. *Zhang, B., +, JPHOT Dec. 2020 4801009*

Surface topography measurement

Three-Dimensional Measurement for Rigid Moving Objects Based on Multi-Fringe Projection. *Wang, J., +, JPHOT Aug. 2020 6802114*

Surgery

Real-Time Thermoacoustic Imaging-Guidance for Breast Tumor Resection. *Qin, H., +, JPHOT June 2020 3700207*

Switching converters

High-Efficiency Pulse Width Modulation-Based Wireless Laser Power Transmission Step-Down System. *Wang, Y., +, JPHOT April 2020 8400214*

System-in-package

High Detection Rate Fast-Gated CMOS Single-Photon Avalanche Diode Module. *Renna, M., +, JPHOT Oct. 2020 6802312*

T**Target tracking**

A New Composite Spiral Scanning Approach for Beaconless Spatial Acquisition and Experimental Investigation of Robust Tracking Control for Laser Communication System with Disturbance. *Zhang, M., +, JPHOT Dec. 2020 7906212*

Study on Rotation and Scaling Invariance of Retina-Like Imaging. *Hao, Q., +, JPHOT Oct. 2020 3800110*

Telecommunication channels

Injection-Locked Quantum-Dash Laser in Far L-Band 192 Gbit/s DWDM Transmission. *Khan, M.Z.M., +, JPHOT Oct. 2020 1504211*

Telecommunication computing

ANN-Assisted Real-Time Blind Signal Detection Over Time-Varying Doubly-Stochastic Poisson Channel for Indoor Optical Wireless Communications. *Arya, S., +, JPHOT Oct. 2020 7904918*

Experimental Demonstration of Continuous Sensor Data Monitoring Using Neural Network-Based Optical Camera Communications. *Ahmed, M.F., +, JPHOT Oct. 2020 7905011*

High-Security Multi-Slot Chaos Encryption With Dynamic Probability for 16-CAP PON. *han, S., +, JPHOT June 2020 7201510*

Neural Successive Cancellation Polar Decoder With Tanh-Based Modified LLR Over FSO Turbulence Channel. *Fang, J., +, JPHOT Dec. 2020 7906110*

Nonlinear Resilient Learning Method Based on Joint Time-Frequency Image Analysis in Underwater Visible Light Communication. *Chen, H., +, JPHOT April 2020 7901610*

Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F., +, JPHOT Aug. 2020 7904512*

Traffic-Adaptive Inter Wavelength Load Balancing for TWDM PON. *Memon, K.A., +, JPHOT Feb. 2020 7200408*

Telecommunication control

A Dimmable OFDM Scheme With Dynamic Subcarrier Activation for VLC. *Wang, C., +, JPHOT Feb. 2020 7900112*

Atmospheric Turbulence Suppression Algorithm Based on APD Adaptive Gain Control for FSO Links of 5G Floating Base Stations. *Yu, X.*, +, *JPHOT Aug. 2020 7904011*

Telecommunication network management

User-Centric Access Scheme Based on Interference Management for Indoor VLC-WIFI Heterogeneous Networks. *Liu, H.*, +, *JPHOT Aug. 2020 7903712*

Telecommunication network reliability

A Dimmable OFDM Scheme With Dynamic Subcarrier Activation for VLC. *Wang, C.*, +, *JPHOT Feb. 2020 7900112*

Design and Investigation of 10 Gb/s FSO Wiretap Channel Using OCDMA Time-Diversity Reception. *Ji, J.*, +, *JPHOT June 2020 7903212*

Dynamic Physical-Layer Secured Link in a Mobile MIMO VLC System. *Younus, O.I.*, +, *JPHOT June 2020 7902814*

Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas. *Miglani, R.*, +, *JPHOT Aug. 2020 7904621*

Neural Successive Cancellation Polar Decoder With Tanh-Based Modified LLR Over FSO Turbulence Channel. *Fang, J.*, +, *JPHOT Dec. 2020 7906110*

Spatial Multiplexing MIMO Visible Light Communications With Densely Distributed LEDs and PDs. *Zheng, D.*, +, *JPHOT Oct. 2020 7905807*

Telecommunication network routing

Full-Duplex Self-Recovery Optical Fibre Transport System Based on a Passive Single-Line Bidirectional Optical Add/Drop Multiplexer. *Li, C.*, +, *JPHOT Oct. 2020 7202310*

Telecommunication network topology

Full-Duplex Self-Recovery Optical Fibre Transport System Based on a Passive Single-Line Bidirectional Optical Add/Drop Multiplexer. *Li, C.*, +, *JPHOT Oct. 2020 7202310*

Telecommunication power management

AquaE-lite Hybrid-Solar-Cell Receiver-Modality for Energy-Autonomous Terrestrial and Underwater Internet-of-Things. *Kong, M.*, +, *JPHOT Aug. 2020 7904713*

Design of the Real-Time Single-Photodiode Digital Coherent Receiver Suitable for Free Space Optical Communication. *Zhou, K.*, +, *JPHOT Oct. 2020 7905412*

Telecommunication security

A Novel Hybrid Secure Method Based on DNA Encoding Encryption and Spiral Scrambling in Chaotic OFDM-PON. *Xiao, Y.*, +, *JPHOT June 2020 7201215*

Design and Investigation of 10 Gb/s FSO Wiretap Channel Using OCDMA Time-Diversity Reception. *Ji, J.*, +, *JPHOT June 2020 7903212*

Dynamic Physical-Layer Secured Link in a Mobile MIMO VLC System. *Younus, O.I.*, +, *JPHOT June 2020 7902814*

Enhancing Secrecy Capacity in FSO Links via MISO Systems Through Turbulence-Induced Fading Channels With Misalignment Errors. *Boluda-Ruiz, R.*, +, *JPHOT Aug. 2020 7903313*

High-Security Multi-Slot Chaos Encryption With Dynamic Probability for 16-CAP PON. *han, S.*, +, *JPHOT June 2020 7201510*

Impulse Response Modeling of Underwater Optical Scattering Channels for Wireless Communication. *Boluda-Ruiz, R.*, +, *JPHOT Aug. 2020 7904414*

Prediction Algorithm of Key Design Parameters for Space Chaotic Optical Communication System. *Li, M.*, +, *JPHOT Aug. 2020 7904308*

Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. *Zhang, J.*, +, *JPHOT April 2020 7902011*

Security Analysis of QAM Quantum-Noise Randomized Cipher System. *Chen, Y.*, +, *JPHOT Aug. 2020 7904114*

Telecommunication traffic

Impact of Analog and Digital Pre-Emphasis on the Signal-to-Noise Ratio of Bandwidth-Limited Optical Transceivers. *Zhou, Z.*, +, *JPHOT April 2020 7200712*

Traffic-Adaptive Inter Wavelength Load Balancing for TWDM PON. *Memon, K.A.*, +, *JPHOT Feb. 2020 7200408*

Telemedicine

Robust Imaging Photoplethysmography in Long-Distance Motion. *Kong, L.*, +, *JPHOT June 2020 3900512*

Tellurium compounds

Enhanced Nonlinearity and Engineered Anomalous Dispersion in TeO₂-coated Si₃N₄ Waveguides. *Mbonde, H.M.*, +, *JPHOT April 2020 2200210*

Temperature measurement

A Low Loss Quantum-Dot-Doped Optical Fiber Temperature Sensor Based on Flexible Print Technology. *Zhang, G.*, +, *JPHOT June 2020 7101008*

A Surface Plasmon Resonance Temperature Sensing Unit Based on a Graphene Oxide Composite Photonic Crystal Fiber. *Liang, H.*, +, *JPHOT June 2020 7201811*

An Optical Fiber Twist Sensor With Temperature Compensation Mechanism Based on T-SMS Structure. *Li, Y.*, +, *JPHOT Feb. 2020 6800308*

Optimized Support Vector Machine Assisted BOTDA for Temperature Extraction With Accuracy Enhancement. *Zhu, H.*, +, *JPHOT Feb. 2020 6800214*

Tapered Polymer Fiber Inclinoimeters. *Lee, C.*, +, *JPHOT June 2020 7100910*

Temperature sensors

A Low Loss Quantum-Dot-Doped Optical Fiber Temperature Sensor Based on Flexible Print Technology. *Zhang, G.*, +, *JPHOT June 2020 7101008*

A Surface Plasmon Resonance Temperature Sensing Unit Based on a Graphene Oxide Composite Photonic Crystal Fiber. *Liang, H.*, +, *JPHOT June 2020 7201811*

Terahertz metamaterials

All-Dielectric Metasurface-Based Quad-Beam Splitter in the Terahertz Regime. *Lv, B.*, +, *JPHOT Oct. 2020 4601410*

Coherent Perfect Absorber Based on Antisymmetric Metasurface With Gain Material. *Chen, M.*, +, *JPHOT June 2020 4500609*

Efficient Optical Spatial First-Order Differentiator Based on Graphene-Based Metalines and Evolutionary Algorithms. *Zhang, T.*, +, *JPHOT April 2020 4800210*

Planar Plasmonic Terahertz Waveguide Based Upon One Dimensional Array of Pyramidal Corrugations and Refractive Index Sensing. *Dhriti, K.*, +, *JPHOT Dec. 2020 4801010*

Probing Composite Vibrational Fingerprints in the Terahertz Range With Graphene Split Ring Resonator. *Mao, X.*, +, *JPHOT Oct. 2020 5900408*

Superradiant Ensembles of Terahertz Polaritonic Meta-Atoms. *Wenclawiak, M.*, +, *JPHOT Oct. 2020 5900608*

Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing. *Hu, M.*, +, *JPHOT Aug. 2020 5900309*

Terahertz Reconfigurable Metasurface for Dynamic Non-Diffractive Orbital Angular Momentum Beams using Vanadium Dioxide. *Wang, L.*, +, *JPHOT June 2020 4600712*

Vanadium Dioxide-Based Bifunctional Metamaterial for Terahertz Waves. *Zhang, M.*, +, *JPHOT Feb. 2020 4600109*

Terahertz wave detectors

High Sensitivity Terahertz Biosensor Based on Goos-Hänchen Effect in Graphene. *Liu, J.*, +, *JPHOT April 2020 6801206*

Terahertz wave devices

Tunable THz and Infrared Plasmonic Filters and Switches Based on Circular Graphene Resonator With 90° Bending of Output Port. *Dmitriev, V.*, +, *JPHOT Oct. 2020 4800913*

Terahertz wave generation

Near-Infrared Supercontinuum and Ultrashort Pulses Generated Based on Phase-Mismatched Cascaded Frequency Conversion in DSTMS Crystal. *Qian, J.*, +, *JPHOT June 2020 3200306*

Terahertz Reconfigurable Metasurface for Dynamic Non-Diffractive Orbital Angular Momentum Beams using Vanadium Dioxide. *Wang, L.*, +, *JPHOT June 2020 4600712*

Terahertz wave imaging

Terahertz Meta-Holograms Reconstruction Based on Compressed Sensing. *Hu, M.*, +, *JPHOT Aug. 2020 5900309*

Terahertz wave spectra

Efficient Optical Spatial First-Order Differentiator Based on Graphene-Based Metalines and Evolutionary Algorithms. *Zhang, T.*, +, *JPHOT April 2020 4800210*

Near-Infrared Supercontinuum and Ultrashort Pulses Generated Based on Phase-Mismatched Cascaded Frequency Conversion in DSTMS Crystal. *Qian, J.*, +, *JPHOT June 2020 3200306*

Terahertz waves

Applications of Neural Networks for Spectrum Prediction and Inverse Design in the Terahertz Band. *Li, J., +, JPHOT Oct. 2020 5900509*

Investigation of Enhanced Transmission and Beaming Effect Through an InSb Subwavelength Grating With a Slit at the Terahertz Range. *Liu, X., +, JPHOT Feb. 2020 4800112*

Thermal expansion

High Precision Fabrication Method of Fresnel Diffractive Lenses on Ultrathin Membrane for Imaging Application. *Liu, X., +, JPHOT Aug. 2020 2400310*

Thermal lensing

13.7-W 588-nm Yellow Laser Generation by Frequency Doubling of 885-nm Side-Pumped Nd:YAG-YVO₄ Intracavity Raman Laser. *Sun, B., +, JPHOT April 2020 1501607*

Thermal stability

Highly Sensitive Photoacoustic Imaging: A New Strategy for Ultrahigh Spatial Resolution Seismic Physical Model Imaging. *Liu, X., +, JPHOT June 2020 6901011*

Temperature-Dependent Carrier Recombination and Efficiency Droop of AlGaIn Deep Ultraviolet Light-Emitting Diodes. *Peng, Z., +, JPHOT Feb. 2020 8200108*

Thermo-optical devices

Low Power Consumption Mode Switch Based on Three-Dimensional Polymer Mach-Zehnder Interferometer. *Lv, J., +, JPHOT June 2020 7800810*

Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μ m Wavelength Band. *Liu, Y., +, JPHOT Aug. 2020 4900308*

Tunable Germanium-on-Insulator Band-Stop Optical Filter Using Thermo-Optic Effect. *Ho, C.P., +, JPHOT April 2020 6600307*

Thermo-optical effects

Dynamic Responses of Cylindrical Whispering Gallery Mode Revealed by Axial Liquid Disturbance. *Zhao, H., +, JPHOT June 2020 7102009*

Low Power Consumption Mode Switch Based on Three-Dimensional Polymer Mach-Zehnder Interferometer. *Lv, J., +, JPHOT June 2020 7800810*

Temperature Dependence of the Steering Angles of a Silicon Photonic Optical Phased Array. *Yepez, P.A.K., +, JPHOT April 2020 6800813*

Tunable Germanium-on-Insulator Band-Stop Optical Filter Using Thermo-Optic Effect. *Ho, C.P., +, JPHOT April 2020 6600307*

Thermoacoustics

Real-Time Thermoacoustic Imaging-Guidance for Breast Tumor Resection. *Qin, H., +, JPHOT June 2020 3700207*

Thermoluminescence

Recent Advances in Silica Glass Optical Fiber for Dosimetry Applications. *Zubair, H., +, JPHOT June 2020 6801525*

Thin film sensors

An Amorphous (Al_{0.12}Ga_{0.88})₂O₃ Deep Ultraviolet Photodetector. *Liu, S., +, JPHOT Aug. 2020 6801908*

Thin films

Low-Loss Buried-Heterostructure Optical Waveguide Based on Impurity-Free-Vacancy-Diffusion Quantum Well Intermixing. *Chen, Y., +, JPHOT April 2020 2400207*

Three-dimensional displays

Dual-View Integral Imaging System With Wide Viewing Angle And High Spatial Resolution. *Deng, H., +, JPHOT June 2020 7000511*

Effect of Viewpoints on the Accommodation Response in Integral Imaging 3D Display. *Chen, C., +, JPHOT June 2020 7000414*

Three-dimensional printing

Polarimetric Identification of 3D-Printed Nano Particle Encoded Optical Codes. *Ahmadi, K., +, JPHOT June 2020 6500810*

Thulium

Actively Q-Switched Tm:YAP Laser Constructed Using an Electro-Optic Periodically Poled Lithium Niobate Bragg Modulator. *Lin, S., +, JPHOT Oct. 2020 1503509*

Corrections to "Evolution of Soliton Rain in a TM-Doped Passive Mode-Locked All-Fiber Laser" [Aug 20 Art. no. 1503408]. *Wang, F., +, JPHOT Oct. 2020 9700101*

Corrections to "Evolution of Soliton Rain in a Tm-Doped Passive Mode-Locked All-Fiber Laser" [Aug 20 Art. no. 1503408]. *Wang, F., +, JPHOT Dec. 2020 9700301*

Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser. *Huang, H., +, JPHOT June 2020 1503008*

Evolution of Soliton Rain in a Tm-doped Passive Mode-Locked All-Fiber Laser. *Wang, F., +, JPHOT Aug. 2020 1503408*

Lead Sulfide Saturable Absorber Based Passively Mode-Locked Tm-Doped Fiber Laser. *Liu, F., +, JPHOT April 2020 1500910*

Switchable Multi-Wavelength Thulium-Doped Fiber Laser Using Four-Mode Fiber Based Sagnac Loop Filter. *Guo, Y., +, JPHOT April 2020 7100610*

Time division multiplexing

Dual-View Integral Imaging System With Wide Viewing Angle And High Spatial Resolution. *Deng, H., +, JPHOT June 2020 7000511*

Multi-Antenna GNSS-Over-Fiber Architecture for Extensive Remote Multi-Baseline Network. *Liu, P., +, JPHOT June 2020 5501210*

Traffic-Adaptive Inter Wavelength Load Balancing for TWDM PON. *Memon, K.A., +, JPHOT Feb. 2020 7200408*

Time-domain analysis

Design of the Real-Time Single-Photodiode Digital Coherent Receiver Suitable for Free Space Optical Communication. *Zhou, K., +, JPHOT Oct. 2020 7905412*

Energy-Stable Time-Domain Finite Element Methods for the 3D Nonlinear Maxwell's Equations. *Anees, A., +, JPHOT April 2020 6500415*

Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving. *Zhang, T., +, JPHOT Dec. 2020 5502512*

Optimized Support Vector Machine Assisted BOTDA for Temperature Extraction With Accuracy Enhancement. *Zhu, H., +, JPHOT Feb. 2020 6800214*

Time-frequency analysis

Nonlinear Resilient Learning Method Based on Joint Time-Frequency Image Analysis in Underwater Visible Light Communication. *Chen, H., +, JPHOT April 2020 7901610*

Timing jitter

3D Simple Monte Carlo Statistical Model for GaAs Nanowire Single Photon Avalanche Diode. *Xie, S., +, JPHOT Aug. 2020 6802008*

Characterize the Speed of a Photon-Number-Resolving Superconducting Nanowire Detector. *Tao, X., +, JPHOT Aug. 2020 4501308*

Compact, High-Performance All-Polarization-Maintaining Er: Fiber Frequency Comb With Single Fiber Actuator. *Cai, Y., +, JPHOT Aug. 2020 7102508*

High Detection Rate Fast-Gated CMOS Single-Photon Avalanche Diode Module. *Renna, M., +, JPHOT Oct. 2020 6802312*

Titanium compounds

Improved Performance of Passive-Matrix Micro-LED Displays Using a Multi-Function Passivation Structure. *Chen, P., +, JPHOT Aug. 2020 7000711*

Resonant Reflection From Cylindrical Grating-Waveguide Under Holistic Excitation. *Koussi, E.K., +, JPHOT April 2020 2700111*

The Design of CMOS-Compatible Plasmonic Waveguides for Intra-Chip Communication. *Liu, Y., +, JPHOT Oct. 2020 4800810*

Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μ m Wavelength Band. *Liu, Y., +, JPHOT Aug. 2020 4900308*

Torsion

The Simulation of Vortex Modes in Twisted Few-Mode Fiber With Inverse-Parabolic Index Profile. *Zhang, Z., +, JPHOT June 2020 7101908*

Traffic engineering computing

Fast Detection and Tracking of a Moving Transmitter via Visible Light Communication Link. *Ahmed, M., +, JPHOT Aug. 2020 7904414*

Transceivers

Demonstration of a 2.34 Gbit/s Real-Time Single Silicon-Substrate Blue LED-Based Underwater VLC System. *Chen, M., +, JPHOT Feb. 2020 7900211*

Model-Aware End-to-End Learning for SISO Optical Wireless Communication Over Poisson Channel. *Si-Ma, L., +, JPHOT Dec. 2020 7907115*

Transfer function matrices

Efficient Optical Spatial First-Order Differentiator Based on Graphene-Based Metalines and Evolutionary Algorithms. *Zhang, T., +, JPHOT April 2020 4800210*

Transient response

Impulse Response Modeling of Underwater Optical Scattering Channels for Wireless Communication. *Boluda-Ruiz, R., +, JPHOT Aug. 2020 7904414*

Transmission electron microscopy

Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber. *Li, G., +, JPHOT April 2020 1501009*

Transmitters

Comprehensive Physical Layer Security Analysis of FSO Communications Over Málaga Channels. *Ai, Y., +, JPHOT Dec. 2020 7906617*

Transparency

Tunable and Multiple Plasmon-Induced Transparency in a Metasurface Comprised of Silver S-Shaped Resonator and Rectangular Strip. *Bital, R.M.H., +, JPHOT June 2020 4500913*

Tumors

Real-Time Thermoacoustic Imaging-Guidance for Breast Tumor Resection. *Qin, H., +, JPHOT June 2020 3700207*

Symmetric Cryptography With Shift 2^{n-1} , Hash Transformation, Optimization-Based Controller for Medical Image Infosecurity: Case Study in Mammographic Image. *Chen, P., +, JPHOT June 2020 4100115*

Tunneling

450 nm Gallium Nitride Alternating Current Light-Emitting Diode. *Hartensveld, M., +, JPHOT Dec. 2020 8200906*

Optical Tunneling to Improve Light Extraction in Quantum Dot and Perovskite Light-Emitting Diodes. *Mei, G., +, JPHOT Dec. 2020 1600314*

Turbidity

Depth Scattering Characterization of Multi-Layer Turbid Media Based on Iterative Multi-Plane Reflectance Measurements. *Yariv, I., +, JPHOT Oct. 2020 3700713*

Fast Visibility Restoration Using a Single Degradation Image in Scattering Media. *Wang, Y., +, JPHOT June 2020 6100813*

Towards Non-Contact Glucose Sensing in Aqueous Turbid Medium at $\square 1.1$ Meters Distance. *Piao, D., +, JPHOT Aug. 2020 3700523*

Turbulence

Neural Successive Cancellation Polar Decoder With Tanh-Based Modified LLR Over FSO Turbulence Channel. *Fang, J., +, JPHOT Dec. 2020 7906110*

Two-photon processes

A Precise High Count-Rate FPGA Based Multi-Channel Coincidence Counting System for Quantum Photonics Applications. *Arabul, E., +, JPHOT April 2020 7500114*

U**UHF oscillators**

A Novel Spectral-Efficient Coherent Radio-Over-Fiber Link With Linear Digital-Phase Demodulation. *Zhang, H., +, JPHOT Feb. 2020 5500208*

Ultra wideband communication

Ultra-Wideband Signal Generation Based on a Silicon Segmented Mach-Zehnder Modulator. *Zhou, G., +, JPHOT Dec. 2020 5502615*

Ultrafast optics

Highly Nonlinear Organic-Silicon Slot Waveguide for Ultrafast Multimode All-Optical Logic Operations. *Wang, Y., +, JPHOT Dec. 2020 3200712*

Ultrasonic imaging

Highly Sensitive Photoacoustic Imaging: A New Strategy for Ultrahigh Spatial Resolution Seismic Physical Model Imaging. *Liu, X., +, JPHOT June 2020 6901011*

Ultrasonic measurement

Gold-Diaphragm Based Fabry-Perot Ultrasonic Sensor for Partial Discharge Detection and Localization. *Zhang, W., +, JPHOT June 2020 6801612*

Ultrasonic transducers

Etched Silicon-on-Insulator Microring Resonator for Ultrasound Measurement. *Yang, W., +, JPHOT April 2020 6801409*

Gold-Diaphragm Based Fabry-Perot Ultrasonic Sensor for Partial Discharge Detection and Localization. *Zhang, W., +, JPHOT June 2020 6801612*

Ultraviolet detectors

An Amorphous $(Al_{0.12}Ga_{0.88})_2O_3$ Deep Ultraviolet Photodetector. *Liu, S., +, JPHOT Aug. 2020 6801908*

Ultraviolet spectra

An Amorphous $(Al_{0.12}Ga_{0.88})_2O_3$ Deep Ultraviolet Photodetector. *Liu, S., +, JPHOT Aug. 2020 6801908*

Underwater acoustic communication

AquaE-lite Hybrid-Solar-Cell Receiver-Modality for Energy-Autonomous Terrestrial and Underwater Internet-of-Things. *Kong, M., +, JPHOT Aug. 2020 7904713*

Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays. *Arvanitakis, G.N., +, JPHOT April 2020 7901210*

Nonlinear Resilient Learning Method Based on Joint Time-Frequency Image Analysis in Underwater Visible Light Communication. *Chen, H., +, JPHOT April 2020 7901610*

Underwater communication

Extended Kalman Filter Based Linear Quadratic Regulator Control for Optical Wireless Communication Alignment. *Alabwan, A., +, JPHOT Dec. 2020 7907012*

Underwater optical wireless communication

Demonstration of a 2.34 Gbit/s Real-Time Single Silicon-Substrate Blue LED-Based Underwater VLC System. *Chen, M., +, JPHOT Feb. 2020 7900211*

Diffused-Line-of-Sight Communication for Mobile and Fixed Underwater Nodes. *Guo, Y., +, JPHOT Dec. 2020 7906413*

Generalized Likelihood Block Detection for SPAD-Based Underwater VLC System. *Ji, Y., +, JPHOT Feb. 2020 7900510*

Impulse Response Modeling of Underwater Optical Scattering Channels for Wireless Communication. *Boluda-Ruiz, R., +, JPHOT Aug. 2020 7904414*

Performance Analysis of Dual-Hop RF-UWOC Systems. *Lei, H., +, JPHOT April 2020 7901915*

Toward Long-Distance Underwater Wireless Optical Communication Based on A High-Sensitivity Single Photon Avalanche Diode. *Chen, H., +, JPHOT June 2020 7902510*

Underwater optics

Lommel-Gaussian Pulsed Beams Carrying Orbital Angular Momentum Propagation in Asymmetric Oceanic Turbulence. *Li, Y., +, JPHOT Feb. 2020 7900915*

V**Vanadium compounds**

Terahertz Reconfigurable Metasurface for Dynamic Non-Diffractive Orbital Angular Momentum Beams using Vanadium Dioxide. *Wang, L., +, JPHOT June 2020 4600712*

Vanadium Dioxide-Based Bifunctional Metamaterial for Terahertz Waves. *Zhang, M., +, JPHOT Feb. 2020 4600109*

Vectors

A Novel 3D Vector Decomposition for Color-Image Encryption. *Zhu, Z., +, JPHOT April 2020 7800614*

Adaptive Blind Stokes-Space Based Equalizer for RSOP in SV-DD Systems With High Chromatic Dispersion Tolerance. *Jin, Y., +, JPHOT April 2020 7200913*

Generation of Spiral Spin Density Vectors With A Circularly Polarized, Vortex Beam. *Pang, X., +, JPHOT April 2020 6500514*

Vehicular ad hoc networks

Characterization of Field of View in Visible Light Communication Systems for Intelligent Transportation Systems. *Seminara, M., +, JPHOT Aug. 2020 7903816*

Vibration measurement

An Enhanced Distributed Acoustic Sensor With Large Temperature Tolerance Based on Ultra-Weak Fiber Bragg Grating Array. *Li, C., +, JPHOT Aug. 2020 7202211*

Versatile Vibration Sensing Using a Tapered Photonic Crystal Fiber With a Featured Core. *Yu, H., +, JPHOT April 2020 6801310*

Vibrations

High SNR Φ -OTDR Based on Frequency and Wavelength Diversity With Differential Vector Aggregation Method. *Gu, J., +, JPHOT Dec. 2020 7103612*

Versatile Vibration Sensing Using a Tapered Photonic Crystal Fiber With a Featured Core. *Yu, H.*, +, *JPHOT April 2020 6801310*

Video cameras

Robust Imaging Photoplethysmography in Long-Distance Motion. *Kong, L.*, +, *JPHOT June 2020 3900512*

Video signal processing

Low Illumination Video Image Enhancement. *Li, Z.*, +, *JPHOT Aug. 2020 3900613*

Robust Imaging Photoplethysmography in Long-Distance Motion. *Kong, L.*, +, *JPHOT June 2020 3900512*

Video surveillance

Low Illumination Video Image Enhancement. *Li, Z.*, +, *JPHOT Aug. 2020 3900613*

Viscosity

Theoretical and Numerical Analysis for Design of High Ratio Fiber Optic Taper Drawing Process. *Liu, J.*, +, *JPHOT Dec. 2020 7103712*

Visible light communication

A Fast and High-Accuracy Real-Time Visible Light Positioning System Based on Single LED Lamp With a Beacon. *Li, H.*, +, *JPHOT Dec. 2020 7906512*

Constant Weight Space-Time Codes for Dimmable MIMO-VLC Systems. *Guo, J.*, +, *JPHOT Dec. 2020 7906815*

Visible spectra

All-Fiber High Power Supercontinuum Generation by Cascaded Photonic Crystal Fibers Ranging From 370 nm to 2400 nm. *Zhang, H.*, +, *JPHOT April 2020 7101608*

An Amorphous $(\text{Al}_{0.12}\text{Ga}_{0.88})_2\text{O}_3$ Deep Ultraviolet Photodetector. *Liu, S.*, +, *JPHOT Aug. 2020 6801908*

Visual perception

Influence of Display Luminance on Visual Discomfort in Dark Ambient Based on Haemodynamic Response. *Shi, Y.*, +, *JPHOT Aug. 2020 7000814*

Volterra series

Grading Optimization for Dimensions-Reduced Orthogonal Volterra DPD. *Faig, H.*, +, *JPHOT Feb. 2020 7200310*

Nonlinear Resilient Learning Method Based on Joint Time-Frequency Image Analysis in Underwater Visible Light Communication. *Chen, H.*, +, *JPHOT April 2020 7901610*

Nonlinearity Mitigation of Multi-Level Optical Transmission Using Spectrum-Split Digital Pre-Distortion. *Lim, G.*, +, *JPHOT Feb. 2020 7200208*

Vortices

Controllable Droplet Generators by Light-Heat Energy Conversion for Selective Particle Encapsulation. *Chen, Y.*, +, *JPHOT Oct. 2020 7103109*

W

Waveform generators

Highly Reconfigurable Microwave Photonic Waveform Generation Based on Time-Wavelength Interleaving. *Zhang, T.*, +, *JPHOT Dec. 2020 5502512*

Waveguide lasers

A Sub-kHz Narrow-Linewidth, and Hundred-mW High-Output-Power Silicon-Based Er Silicate Laser With Hybrid Pump and Signal Co-Resonant Cavity. *Zhou, P.*, +, *JPHOT Feb. 2020 1500212*

High-Power (>300 mW) On-Chip Laser With Passively Aligned Silicon-Nitride Waveguide DBR Cavity. *Kharas, D.*, +, *JPHOT Dec. 2020 1504612*

Vertically Coupled Partially Tapered Ridge Waveguide Semiconductor FP Laser With Improved Divergence Angles. *Lan, M.*, +, *JPHOT Oct. 2020 1504312*

Waveguides

Simultaneous Mid-Infrared Gas Sensing and Upconversion Based on Third Harmonic Generation in Cascaded Waveguides. *Pan, J.*, +, *JPHOT April 2020 6800912*

Wavelength division multiplexing

A Raman-Pumped Dispersion and Nonlinearity Compensating Fiber For Fiber Optic Communications. *Bidaki, E.*, +, *JPHOT Feb. 2020 7200117*

Automated Adaptation and Stabilization of a Tunable WDM Polarization-Independent Receiver on Active Silicon Photonic Platform. *Ma, M.*, +, *JPHOT Aug. 2020 4900411*

Demonstration of 4×100 Gbit/s PAM-4 Transmission Over 40 km in an IM/DD System Based on Narrow Band DMLs. *Wang, K.*, +, *JPHOT June 2020 7201908*

Full-Duplex Self-Recovery Optical Fibre Transport System Based on a Passive Single-Line Bidirectional Optical Add/Drop Multiplexer. *Li, C.*, +, *JPHOT Oct. 2020 7202310*

Hybrid OFDM-Digital Filter Multiple Access PONs Utilizing Spectrally Overlapped Digital Orthogonal Filtering. *Sankoh, A.*, +, *JPHOT Oct. 2020 7905311*

Injection-Locked Quantum-Dash Laser in Far L-Band 192 Gbit/s DWDM Transmission. *Khan, M.Z.M.*, +, *JPHOT Oct. 2020 1504211*

OE-CAM: A Hybrid Opto-Electronic Content Addressable Memory. *Alkabani, Y.*, +, *JPHOT April 2020 6600114*

The Simulation of Vortex Modes in Twisted Few-Mode Fiber With Inverse-Parabolic Index Profile. *Zhang, Z.*, +, *JPHOT June 2020 7101908*

Thermo-Optic Tunable Silicon Arrayed Waveguide Grating at 2- μm Wavelength Band. *Liu, Y.*, +, *JPHOT Aug. 2020 4900308*

Traffic-Adaptive Inter Wavelength Load Balancing for TWDM PON. *Memon, K.A.*, +, *JPHOT Feb. 2020 7200408*

Transmission Distance Extension of Directly Modulated Tunable V-cavity Laser Using AWG Wavelength Detuning. *Zhuang, Y.*, +, *JPHOT June 2020 7201707*

Ultra-High Resolution Wideband on-Chip Spectrometer. *Hasan, M.*, +, *JPHOT Oct. 2020 6802617*

Wavelength measurement

A Single-Mode Erbium Fiber Laser With Flat Power Output and Wide Wavelength Tunability. *Yeh, C.*, +, *JPHOT Dec. 2020 7202805*

Wavelet transforms

A Novel Phase Noise Suppression Scheme Utilizing Gaussian Wavelet Basis Expansion for PDM CO-OFDM Superchannel. *Chen, Y.*, +, *JPHOT April 2020 7902309*

Dipole-Based Wavelet Superposition for Accurate Design and Analysis of Metasurface. *Chu, H.*, +, *JPHOT Oct. 2020 4601312*

EWT-ASG: Empirical Wavelet Transform With Adaptive Savitzky-Golay Filtering for TDLAS. *He, J.*, +, *JPHOT June 2020 7800712*

Low Illumination Video Image Enhancement. *Li, Z.*, +, *JPHOT Aug. 2020 3900613*

Whispering gallery modes

Dynamic Responses of Cylindrical Whispering Gallery Mode Revealed by Axial Liquid Disturbance. *Zhao, H.*, +, *JPHOT June 2020 7102009*

Light Extraction Efficiency of GaN-Based Micro-Scale Light-Emitting Diodes Investigated Using Finite-Difference Time-Domain Simulation. *Ryu, H.*, +, *JPHOT April 2020 1600110*

Magnetic Fluid Infiltrated Microbottle Resonator Sensor With Axial Confined Mode. *Hou, F.*, +, *JPHOT Oct. 2020 6802709*

Polarization Coupling Based on Faraday Effect in Whispering-Gallery-Mode Resonator. *Nie, Y.*, +, *JPHOT April 2020 5300107*

Stimulated Brillouin Scattering by Dual Lasers Pumping in WGM Microcavities. *Chen, Z.*, +, *JPHOT Dec. 2020 6101108*

The Particle Induced Mode Splitting and Exceptional Points in Whispering-Gallery Mode Microcavity. *Xiao-Xue, J.*, +, *JPHOT Dec. 2020 6803414*

White noise

2.5 kW Narrow Linewidth Linearly Polarized All-Fiber MOPA With Cascaded Phase-Modulation to Suppress SBS Induced Self-Pulsing. *Wang, Y.*, +, *JPHOT June 2020 1502815*

Wide band gap semiconductors

450 nm Gallium Nitride Alternating Current Light-Emitting Diode. *Hartensveld, M.*, +, *JPHOT Dec. 2020 8200906*

An Amorphous $(\text{Al}_{0.12}\text{Ga}_{0.88})_2\text{O}_3$ Deep Ultraviolet Photodetector. *Liu, S.*, +, *JPHOT Aug. 2020 6801908*

Blue Laser Diode System With an Enhanced Wavelength Tuning Range. *Mukhtar, S.*, +, *JPHOT April 2020 1502110*

Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser. *Huang, H.*, +, *JPHOT June 2020 1503008*

Effects of Lateral Optical Confinement In GaN VCSELs With Double Dielectric DBRs. *Xu, R.*, +, *JPHOT April 2020 1501708*

Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M.*, +, *JPHOT June 2020 8200408*

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K.*, +, *JPHOT Oct. 2020 2200611*

Gb/s Underwater Wireless Optical Communications Using Series-Connected GaN Micro-LED Arrays. *Arvanitakis, G.N.*, +, *JPHOT April 2020 7901210*

High-Performance Semi-Polar InGaN/GaN Green Micro Light-Emitting Diodes. *Xu, F.*, +, *JPHOT Feb. 2020 2500107*

Improved Performance of Passive-Matrix Micro-LED Displays Using a Multi-Function Passivation Structure. *Chen, P.*, +, *JPHOT Aug. 2020 7000711*

Light Extraction Efficiency of GaN-Based Micro-Scale Light-Emitting Diodes Investigated Using Finite-Difference Time-Domain Simulation. *Ryu, H.*, +, *JPHOT April 2020 1600110*

On the Impact of Electron Leakage on the Efficiency Droop for AlGaIn Based Deep Ultraviolet Light Emitting Diodes. *Chu, C.*, +, *JPHOT June 2020 1600207*

Optical Gain Characteristics of BGaAs/GaP Quantum Wells. *Maczko, H.S.*, +, *JPHOT Aug. 2020 6101013*

Polarization Enhanced GaN Avalanche Photodiodes With p-type In_{0.05}Ga_{0.95}N Layer. *Wang, H.*, +, *JPHOT Feb. 2020 6800606*

Temperature-Dependent Carrier Recombination and Efficiency Droop of AlGaIn Deep Ultraviolet Light-Emitting Diodes. *Peng, Z.*, +, *JPHOT Feb. 2020 8200108*

The Impact of Resonance on the Light Extraction Efficiency of Single Nanowire Ultraviolet Light Emitting Diodes. *Zhang, Z.*, +, *JPHOT Aug. 2020 8200610*

Ultraviolet Electrostatic Field Effect Light-Emitting Diode. *Hartensveld, M.*, +, *JPHOT Oct. 2020 8200808*

Wireless channels

ANN-Assisted Real-Time Blind Signal Detection Over Time-Varying Doubly-Stochastic Poisson Channel for Indoor Optical Wireless Communications. *Arya, S.*, +, *JPHOT Oct. 2020 7904918*

Diffused-Line-of-Sight Communication for Mobile and Fixed Underwater Nodes. *Guo, Y.*, +, *JPHOT Dec. 2020 7906413*

Impulse Response Modeling of Underwater Optical Scattering Channels for Wireless Communication. *Boluda-Ruiz, R.*, +, *JPHOT Aug. 2020 7904414*

Multi-Hop Relay Based Free Space Optical Communication Link for Delivering Medical Services in Remote Areas. *Miglan, R.*, +, *JPHOT Aug. 2020 7904621*

Neural Successive Cancellation Polar Decoder With Tanh-Based Modified LLR Over FSO Turbulence Channel. *Fang, J.*, +, *JPHOT Dec. 2020 7906110*

OFDM With Differential Index Modulation for Visible Light Communication. *Zheng, D.*, +, *JPHOT Feb. 2020 7900708*

Path-Loss Optimized Indoor Laser-Based Visible Light Communication System for Variable Link Length Gigabit-Class Communication. *Ahmad, F.*, +, *JPHOT Aug. 2020 7904512*

Performance Limits for Fingerprinting-Based Indoor Optical Communication Positioning Systems Exploiting Multipath Reflections. *Hosseiniyanfar, H.*, +, *JPHOT Aug. 2020 7903416*

Secrecy Analysis for Multi-Relaying RF-FSO Systems With a Multi-Aperture Destination. *Zhang, J.*, +, *JPHOT April 2020 7902011*

Transmitters for Combined Radio Over a Fiber and Outdoor Millimeter-Wave System at 25 GHz. *Bohata, J.*, +, *JPHOT June 2020 5501414*

Wideband and Ambiguous-Free RF Channelizer Assisted Jointly by Spacing and Profile of Optical Frequency Comb. *Lu, X.*, +, *JPHOT June 2020 5500911*

Wireless communication

Capacity Maximization Using Nash Bargaining in Indoor Optical Multiuser Interference-Limited Poisson Channel. *Arya, S.*, +, *JPHOT Dec. 2020 7906712*

Extended Kalman Filter Based Linear Quadratic Regulator Control for Optical Wireless Communication Alignment. *Alalwan, A.*, +, *JPHOT Dec. 2020 7907012*

Model-Aware End-to-End Learning for SISO Optical Wireless Communication Over Poisson Channel. *Si-Ma, L.*, +, *JPHOT Dec. 2020 7907115*

Wireless LAN

User-Centric Access Scheme Based on Interference Management for Indoor VLC-WIFI Heterogeneous Networks. *Liu, H.*, +, *JPHOT Aug. 2020 7903712*

X

X-ray imaging

Conveyor X-Ray Tomosynthesis Imaging With Optimized Structured Sequential Illumination. *Ma, X.*, +, *JPHOT Oct. 2020 3400217*

X-Ray Layered Refocusing Imaging Based on Linear Scanning. *Liu, B.*, +, *JPHOT June 2020 3400112*

Y

Ytterbium

Application of A Frequency Chirped RF Intensity Modulated 532 nm Light Source in Underwater Ranging. *Li, K.*, +, *JPHOT Oct. 2020 1503811*

Carrier-Envelope Offset Frequency Stabilization of a Thin-Disk Laser Oscillator via Depletion Modulation. *Andrade, J.R.C.*, +, *JPHOT April 2020 1500609*

Cladding-Pumped Erbium-Ytterbium Co-Doped Fiber Amplifier With Dual-Wavelength Auxiliary Signal Injection of 1030 and 1040 nm. *Wei, S.*, +, *JPHOT April 2020 1501509*

Dissipative Soliton Resonance in an All-Polarization Maintaining Fiber Laser With a Nonlinear Amplifying Loop Mirror. *Gong, Q.*, +, *JPHOT June 2020 1502708*

Frequency Chirped Intensity Modulated Mid-Infrared Light Source Based on Optical Parametric Oscillation. *Li, K.*, +, *JPHOT Feb. 2020 1500409*

Nonlinear Polarization Evolution Mode-Locked YDFL Based on All-PM Fiber Cavity. *Wu, Z.*, +, *JPHOT April 2020 1501807*

Simulation for Generation of Several Types of Pulses in an Yb-Doped Mode-Locked Fiber Laser. *Cui, Y.*, +, *JPHOT Dec. 2020 1504413*

Spatial Beam Self-Cleaning in Tapered Yb-Doped GRIN Multimode Fiber With Decelerating Nonlinearity. *Niang, A.*, +, *JPHOT April 2020 6500308*

Tunable Multi-Wavelength Bright-Dark and Dark-Bright Pulse Pairs Fiber Lasers. *Xin, Y.*, +, *JPHOT Dec. 2020 7103209*

Weak-Seed Induced Enhancement of Stimulated Raman Scattering in Distributed Side-Pumped Yb-Doped Fiber Amplifiers. *Chen, H.*, +, *JPHOT Dec. 2020 7103412*

Yttrium compounds

13.7-W 588-nm Yellow Laser Generation by Frequency Doubling of 885-nm Side-Pumped Nd:YAG-YVO₄ Intracavity Raman Laser. *Sun, B.*, +, *JPHOT April 2020 1501607*

Actively Q-Switched Tm:YAP Laser Constructed Using an Electro-Optic Periodically Poled Lithium Niobate Bragg Modulator. *Lin, S.*, +, *JPHOT Oct. 2020 1503509*

Environmentally Stable 1.56- μ m Femtosecond Laser System With Discontinuous Selectable Repetition Rate. *Fu, H.*, +, *JPHOT June 2020 1502507*

Graphene Fabrication by Using Femtosecond Pulsed Laser and Its Application on Passively Q-Switched Solid-State Laser as Saturable Absorber. *Li, G.*, +, *JPHOT April 2020 1501009*

High Power Ho:YAP Laser With 107 W of Output Power at 2117 nm. *Tang, J.*, +, *JPHOT April 2020 1501107*

Watt-Level Continuous-Wave Mode-Locked Nd:YVO₄ Laser With ReSe₂ Saturable Absorber. *Xue, Y.*, +, *JPHOT Oct. 2020 1503710*

Z

Zernike polynomials

Misalignment Calculation on Off-Axis Telescope System via Fully Connected Neural Network. *Liu, Z.*, +, *JPHOT Aug. 2020 0600112*

Zinc compounds

Cr:ZnSe Passively Q-Switched Tm/Ho:YAG Laser With Changeable Wavelengths Between Tm Laser and Ho Laser. *Huang, H.*, +, *JPHOT June 2020 1503008*

Enhancement of the Au/ZnO-NA Plasmonic SERS Signal Using Principal Component Analysis as a Machine Learning Approach. *Gupta, A.K.*, +, *JPHOT Oct. 2020 2200611*