

# 2021 Index

## IEEE Journal of Lightwave Technology

### Vol. 39

This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2021, and items from previous years that were commented upon or corrected in 2021. 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.

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A Fully Numerical Method for Designing Efficient Adiabatic Mode Evolution Structures (Adiabatic Taper, Coupler, Splitter, Mode Converter) Applicable to Complex Geometries. *Liang, T.*, +, *JLT Sept. 1, 2021 5531-5547*

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- Low-Noise Graded-Index Plastic Optical Fiber Achieved by Specific Copolymerization Process. *Akashi, T.*, +, *JLT June 1, 2021 3553-3559*
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**Optical polarizers**

- Low-Loss and Small  $2 \times 4\lambda$  Multiplexers Based on  $2 \times 2$  and  $2 \times 1$  Mach-Zehnder Interferometers With On-Chip Polarization Multiplexing for 400GbE. *Fujisawa, T.*, +, *JLT Jan. 1, 2021 193-200*
- Wavelength Switchable Multi-Wavelength Erbium-Doped Fiber Laser Based on Polarization-Dependent Loss Modulation. *Li, Y.*, +, *JLT Jan. 1, 2021 243-250*

**Optical polymers**

- 2D Optical Phased Arrays for Laser Beam Steering Based On 3D Polymer Photonic Integrated Circuits. *Raptakis, A.*, +, *JLT Oct. 15, 2021 6509-6523*
- 3D Polymer Based 1x4 Beam Splitter. *Gaso, P.*, +, *JLT Jan. 1, 2021 154-161*
- A U-Shape Fibre-Optic pH Sensor Based on Hydrogen Bonding of Ethyl Cellulose With a Sol-Gel Matrix. *Tang, Z.*, +, *JLT March 1, 2021 1557-1564*
- Chemically Functionalised Suspended-Core Fibre for Ammonia Gas Detection. *Liu, L.*, +, *JLT Aug. 1, 2021 5197-5205*
- Compact Dual-Strain Sensitivity Polymer Optical Fiber Grating for Multi-Parameter Sensing. *Pereira, L.*, +, *JLT April 1, 2021 2230-2240*
- Design of a Few-Mode Erbium-Ytterbium Co-Doped Polymer Optical Waveguide Amplifier With Low Differential Modal Gain. *Zhang, X.*, +, *JLT May 15, 2021 3201-3216*
- Forward Stimulated Brillouin Scattering Analysis of Optical Fibers Coatings. *Diamandi, H.H.*, +, *JLT March 15, 2021 1800-1807*
- Hybrid Integrated Silicon Nitride-Polymer Optical Phased Array For Efficient Light Detection and Ranging. *Im, C.*, +, *JLT July 1, 2021 4402-4409*
- Integrated Width-Modulated SiN Long Period Grating Designed for Refractometric Applications. *Deleau, C.*, +, *JLT July 15, 2021 4820-4827*
- Launch Light Design for Coupling Loss Measurement of Step-Index Multimode Fiber Connections. *Horiguchi, K.*, +, *JLT April 15, 2021 2505-2513*
- Low-Noise Graded-Index Plastic Optical Fiber Achieved by Specific Copolymerization Process. *Akashi, T.*, +, *JLT June 1, 2021 3553-3559*
- Multi-Channel Single-Mode Polymer Waveguide Fabricated Using the Mosquito Method. *Yakabe, S.*, +, *JLT Jan. 15, 2021 547-556*
- Multi-Gigabit Spatial-Division Multiplexing Transmission Over Multicore Plastic Optical Fiber. *Yahav, I.*, +, *JLT April 15, 2021 2296-2304*
- Optical Fiber Gas Pressure Sensor Based on Polydimethylsiloxane Microcavity. *Wei, X.*, +, *JLT May 1, 2021 2988-2993*
- Writing 3D Waveguides With Femtosecond Pulses in Polymers. *Perevoznic, D.*, +, *JLT July 1, 2021 4390-4394*

**Optical prisms**

- Thermo-Optic Beam Scanner Employing Silicon Photonic Crystal Slow-Light Waveguides. *Tamanuki, T.*, +, *JLT Feb. 15, 2021 904-911*

**Optical projectors**

- Optical Performance Monitoring in Mode Division Multiplexed Optical Networks. *Saif, W.S.*, +, *JLT Jan. 15, 2021 491-504*
- Shape Sensing Using Two Outer Cores of Multicore Fiber and Optical Frequency Domain Reflectometer. *Meng, Y.*, +, *JLT Oct. 15, 2021 6624-6630*

**Optical pulse compression**

- Coherent Optical Fiber Sensing Based on a Frequency Shifting Loop. *Billault, V.*, +, *JLT June 15, 2021 4118-4123*
- Compact, All-PM Fiber Integrated and Alignment-Free Ultrafast Yb:Fiber NALM Laser With Sub-Femtosecond Timing Jitter. *Ma, Y.*, +, *JLT July 1, 2021 4431-4438*
- Nearly Self-Similar Pulse Compression of High-Repetition-Rate Pulse Trains in Tapered Silicon Waveguides. *Ye, F.*, +, *JLT July 15, 2021 4717-4724*

**Optical pulse generation**

- 2090 nm 200 W Peak Power 50 ns Pulsed PM Ho-Doped Fiber Amplifier Pumped at 1860 nm. *Walasik, W.*, +, *JLT Aug. 1, 2021 5126-5133*
- Experimental Investigation on Dynamic Properties and Noise Reduction in Actively Mode-Locked Lasers by External CW Optical Injection. *Billault, V.*, +, *JLT May 1, 2021 2924-2930*
- Integrated High-Repetition-Rate Optical Sampling Chip Exploiting Wavelength and Mode Multiplexing. *Wang, X.*, +, *JLT Sept. 1, 2021 5548-5557*

- Mamyshev Oscillator With a Widely Tunable Repetition Rate. *Piechal, B., +, JLT Jan. 15, 2021 574-581*
- Microwave Photonic Interrogation of a High-Speed and High-Resolution Temperature Sensor Based on Cascaded Fiber-Optic Sagnac Loops. *Wang, G., +, JLT June 15, 2021 4041-4048*
- Nd-Doped Polarization Maintaining All-Fiber Laser With Dissipative Soliton Resonance Mode-Locking at 905 nm. *Mkrchyan, A.A., +, JLT Sept. 1, 2021 5582-5588*
- Nearly Self-Similar Pulse Compression of High-Repetition-Rate Pulse Trains in Tapered Silicon Waveguides. *Ye, F., +, JLT July 15, 2021 4717-4724*
- Nonlinear Optical Properties of Ag Nanoplates Plasmon Resonance and Applications in Ultrafast Photonics. *Fu, B., +, JLT April 1, 2021 2084-2090*
- Phase Noise of Optical Pulse Trains Generated by Talbot Effect in Frequency Shifting Loops. *Billault, V., +, JLT April 15, 2021 2336-2347*
- Optical pulse shaping**
- Performance Analysis Under Double Sided Clipping and Real Time Implementation of DCO-GFDM in VLC Systems. *Kishore, V., +, JLT Jan. 1, 2021 33-41*
- Slit Beam Shaping for Femtosecond Laser Point-by-Point Inscription of High-Quality Fiber Bragg Gratings. *Xu, X., +, JLT Aug. 1, 2021 5142-5148*
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- Tunable Mode Control Through Myriad-Mode Fibers. *Singh, S., +, JLT May 1, 2021 2961-2970*
- Optical pulses**
- 40Gbits<sup>-1</sup> Data Transmission in an Installed Optical Link Encrypted Using Physical Layer Security Seeded by Quantum Key Distribution. *Wang, K., +, JLT Oct. 1, 2021 6130-6141*
- Chaos Raman Optical Time-Domain Reflectometry for Millimeter-Level Spatial Resolution Temperature Sensing. *Zhou, X., +, JLT Dec. 1, 2021 7529-7538*
- Combining IST-Based CFO Compensation and Neural Network-Based Demodulation for Eigenvalue-Modulated Signal. *Mishina, K., +, JLT Dec. 1, 2021 7370-7382*
- Design of Ultra-Compact On-Chip Discrete Phase Filters for Broadband Dispersion Management. *Kaushal, S., +, JLT Nov. 1, 2021 6908-6921*
- Effects of the Nonlinearity Caused by the 'MZM-WDM' Structure in Time-Wavelength Interleaved Photonic Analog-to-Digital Converters. *Wang, C., +, JLT Dec. 1, 2021 7447-7454*
- Optical pumping**
- 2- $\mu$ m Narrow Linewidth All-Fiber DFB Fiber Bragg Grating Lasers for Ho- and Tm-Doped Fiber-Amplifier Applications. *Walasik, W., +, JLT Aug. 1, 2021 5096-5102*
- 2090 nm 200 W Peak Power 50 ns Pulsed PM Ho-Doped Fiber Amplifier Pumped at 1860 nm. *Walasik, W., +, JLT Aug. 1, 2021 5126-5133*
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- 4-Bit All-Optical Serial-to-Parallel Converter With Sub-dB/cm Delay Lines Based on Rib Waveguides. *Neranji, R.H., +, JLT Oct. 15, 2021 6524-6530*
- A 1.4-kW Mode-Controllable Fiber Laser System. *You, Y., +, JLT April 15, 2021 2536-2541*
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- Broadband Continuously Tunable All-Fiber Laser Based on OPG for CARS Imaging. *Aporta, I., +, JLT April 15, 2021 2489-2496*
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- Numerical Design of a Gain-Switched Pulsed Laser at 3.92  $\mu\text{m}$  Wavelength Based on a Ho<sup>3+</sup>-Doped Fluorindate Fiber. Loconsole, A.M., +, *JLT May 15, 2021 3276-3283*
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- 10 Tbit/s QAM Quantum Noise Stream Cipher Coherent Transmission Over 160 Km. Yoshida, M., +, *JLT Feb. 15, 2021 1056-1063*
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