

# 2020 Index

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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.

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#### Field effect MMIC

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- Finite difference time-domain analysis**
- Multilayer CVD-Graphene and MoS<sub>2</sub> Ethanol Sensing and Characterization Using Kretschmann-Based SPR. *Menon, P.S., +, JEDS 2020 1227-1235*
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- Finite volume methods**
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- Frequency dividers**
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- Improvement in Bias Stability of IGZO TFT With Etching Stop Structure by UV Irradiation Treatment of Active Layer Island. *Pan, C., +, JEDS 2020 524-529*
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Novel Green Temporary Bonding and Separation Method for Manufacturing Thin Displays. *Chen, J., +, JEDS 2020 917-924*

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The Dependence of the High-Frequency Performance of Graphene Field-Effect Transistors on Channel Transport Properties. *Asad, M., +, JEDS 2020 457-464*

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**H****Hafnium**

Low-Voltage Hf-ZnO Thin Film Transistors With Ag Nanowires Gate Electrode and Their Application in Logic Circuit. *Wu, J., +, JEDS 2020 152-156*

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Asymmetric Low Metal Contamination Ni-Induced Lateral Crystallization Polycrystalline-Silicon Thin-Film Transistors With Low OFF-State Currents for Back-End of Line (BEOL) Compatible Devices Applications. *Kuo, P., +, JEDS 2020 1317-1322*

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Thermal Modeling of GaN HEMT Devices With Diamond Heat-Spreader. *Mahrokh, M., +, JEDS 2020 986-991*

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- Materials Requirements of High-Speed and Low-Power Spin-Orbit-Torque Magnetic Random-Access Memory. *Li, X., +, JEDS 2020 674-680*
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- Transient response**
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- Transistors**
- A Silicon Carbide 256 Pixel UV Image Sensor Array Operating at 400 °C. *Hou, S., +, JEDS 2020 116-121*
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- Realizing XOR and XNOR Functions Using Tunnel Field-Effect Transistors. *Garg, S., +, JEDS 2020 1001-1009*
- Tunneling**
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- Improvement in Bias Stability of IGZO TFT With Etching Stop Structure by UV Irradiation Treatment of Active Layer Island. *Pan, C., +, JEDS 2020 524-529*
- V**
- Vacancies (crystal)**
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- Methodology to Investigate Impact of Grain Orientation on Threshold Voltage and Current Variability in Tunneling Field-Effect Transistors. *Kim, J.H., +, JEDS 2020 1345-1349*

**X****X-ray detection**

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- Impact of the Crystal Phase of ZrO<sub>2</sub> on Charge Trapping Memtransistor as Synaptic Device for Neural Network Application. *Chou, Y., +, JEDS 2020 572-576*

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- Impact of the Crystal Phase of ZrO<sub>2</sub> on Charge Trapping Memtransistor as Synaptic Device for Neural Network Application. *Chou, Y., +, JEDS 2020 572-576*

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