List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | TCAD RF performance investigation of Transparent Gate Recessed Channel MOSFET. Microelectronics Journal, 2016, 49, 36-42. | 2.0 | 53 |
| 2 | Reliability Issues of In ₂ O ₅ Sn Gate Electrode Recessed Channel MOSFET: Impact of Interface Trap Charges and Temperature. IEEE Transactions on Electron Devices, 2018, 65, 860-866. | 3.0 | 47 |
| 3 | Analysis of novel transparent gate recessed channel (TGRC) MOSFET for improved analog behaviour. Microsystem Technologies, 2016, 22, 2665-2671. | 2.0 | 41 |
| 4 | Impact of device parameter variation on RF performance of gate electrode workfunction engineered (GEWE)-silicon nanowire (SiNW) MOSFET. Journal of Computational Electronics, 2015, 14, 798-810. | 2.5 | 39 |
| 5 | Investigation of parasitic capacitances of In2O5Sn gate electrode recessed channel MOSFET for ULSI switching applications. Microsystem Technologies, 2017, 23, 5867-5874. | 2.0 | 37 |
| 6 | Effect of trench depth and gate length shrinking assessment on the analog and linearity performance of TGRC-MOSFET. Superlattices and Microstructures, 2017, 109, 626-640. | 3.1 | 37 |
| 7 | Comprehensive analysis of sub-20†nm black phosphorus based junctionless-recessed channel MOSFET for analog/RF applications. Superlattices and Microstructures, 2018, 116, 171-180. | 3.1 | 34 |
| 8 | Power gain assessment of ITO based Transparent Gate Recessed Channel (TGRC) MOSFET for RF/wireless applications. Superlattices and Microstructures, 2016, 91, 290-301. | 3.1 | 32 |
| 9 | Performance evaluation of linearity and intermodulation distortion of nanoscale GaN-SOI FinFET for RFIC design. AEU - International Journal of Electronics and Communications, 2020, 115, 153052. | 2.9 | 31 |
| 10 | Sub-20â€ [–] nm GaAs junctionless FinFET for biosensing application. Vacuum, 2019, 160, 467-471. | 3.5 | 26 |
| 11 | Palladium-based trench gate MOSFET for highly sensitive hydrogen gas sensor. Materials Science in Semiconductor Processing, 2020, 120, 105274. | 4.0 | 26 |
| 12 | Ultralow-power dielectric-modulated nanogap-embedded sub-20-nm TGRC-MOSFET for biosensing applications. Journal of Computational Electronics, 2018, 17, 1807-1815. | 2.5 | 25 |
| 13 | Recent advances and progresses in photonic devices for passive radiative cooling application: a review. Journal of Nanophotonics, 2020, 14, . | 1.0 | 25 |
| 14 | Review—Thin-Film Transistors (TFTs) for Highly Sensitive Biosensing Applications: A Review. ECS Journal of Solid State Science and Technology, 2020, 9, 115022. | 1.8 | 22 |
| 15 | Thermal Stability Analysis of Surface Wave Assisted Bio-Photonic Sensor. Photonics, 2022, 9, 324. | 2.0 | 20 |
| 16 | Radiation Analysis of N-Channel TGRC-MOSFET: An X-Ray Dosimeter. IEEE Transactions on Electron Devices, 2018, 65, 5014-5020. | 3.0 | 19 |
| 17 | Sub-30nm In2O5Sn gate electrode recessed channel MOSFET: A biosensor for early stage diagnostics. Vacuum, 2019, 164, 46-52. | 3.5 | 19 |
| 18 | Increased efficiency of 23% for CIGS solar cell by using ITO as front contact. Materials Today: Proceedings, 2020, 28, 361-365. | 1.8 | 17 |

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|----|--|-----|-----------|
| 19 | Numerical assessment of high-k spacer on symmetric S/D underlap GAA junctionless accumulation mode silicon nanowire MOSFET for RFIC design. Applied Physics A: Materials Science and Processing, 2021, 127, 1. | 2.3 | 17 |
| 20 | In 2 O 5 Sn based transparent gate recessed channel MOSFET: RF small-signal model for microwave applications. AEU - International Journal of Electronics and Communications, 2018, 93, 233-241. | 2.9 | 15 |
| 21 | Performance Analysis of DAST Material-Assisted Photonic-Crystal-Based Electrical Tunable Optical Filter. Crystals, 2022, 12, 992. | 2.2 | 14 |
| 22 | Analysis of structural parameters on sensitivity of black phosphorus junctionless recessed channel MOSFET for biosensing application. Microsystem Technologies, 2020, 26, 2227-2233. | 2.0 | 12 |
| 23 | The Effect of Gate Stack and High-Ä, Spacer on Device Performance of a Junctionless GAA FinFET. , 2020, , . | | 12 |
| 24 | Dielectric modulated transparent gate thin film transistor for biosensing applications. Materials Today: Proceedings, 2020, 28, 141-145. | 1.8 | 12 |
| 25 | Assessment of High-k Gate Stack on Sub-10 nm SOI-FinFET for High-Performance Analog and RF Applications Perspective. ECS Journal of Solid State Science and Technology, 2020, 9, 123009. | 1.8 | 12 |
| 26 | Simulation of perovskite solar cell employing ZnO as electron transport layer (ETL) for improved efficiency. Materials Today: Proceedings, 2021, 46, 1684-1687. | 1.8 | 11 |
| 27 | Oxide bound impact on hot-carrier degradation for gate electrode workfunction engineered (GEWE) silicon nanowire MOSFET. Microsystem Technologies, 2016, 22, 2655-2664. | 2.0 | 10 |
| 28 | Effect of structured parameters on the hot-carrier immunity of transparent gate recessed channel (TGRC) MOSFET. Microsystem Technologies, 2017, 23, 4057-4064. | 2.0 | 9 |
| 29 | Numerical simulation and parametric assessment of GaN buffered trench gate MOSFET for low power applications. IET Circuits, Devices and Systems, 2020, 14, 915-922. | 1.4 | 9 |
| 30 | Internet of Things (IoT) for Bank Locker Security System. , 2020, , . | | 9 |
| 31 | 20Ânm GAA-GaN/Al2O3 nanowire MOSFET for improved analog/linearity performance metrics and suppressed distortion. Applied Physics A: Materials Science and Processing, 2021, 127, 1. | 2.3 | 9 |
| 32 | RF noise modeling of Black Phosphorus Junctionless Trench MOSFET in strong inversion region. Superlattices and Microstructures, 2019, 125, 72-79. | 3.1 | 8 |
| 33 | Sub-10 nm High-k Dielectric SOI-FinFET for HighPerformance Low Power Applications. , 2020, , . | | 7 |
| 34 | Design Considerations and Capacitance Dependent Parametric Assessment of Gate Metal Engineered SiNW MOSFET for ULSI Switching Applications. Silicon, 2020, 12, 1501-1510. | 3.3 | 5 |
| 35 | Numerical assessment of high-efficiency lead-free perovskite solar cells. Materials Today: Proceedings, 2021, 45, 5041-5046. | 1.8 | 5 |
| 36 | Perovskite-CIGS materials based tandem solar cell with an increased efficiency of 27.5%. Materials Today: Proceedings, 2021, 45, 5047-5051. | 1.8 | 5 |

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|----|---|-----|-----------|
| 37 | GaN Silicon-on-Insulator (SOI) N-Channel FinFET for High-Performance Low Power Applications. , 2019, , . | | 5 |
| 38 | Effect of dielectric engineering on analog and linearity performance of gate electrode workfunction engineered (GEWE) silicon nanowire MOSFET. , 2015, , . | | 4 |
| 39 | Small-signal modeling of In2O5Sn based transparent gate recessed channel MOSFET for microwave/RF applications. , 2017, , . | | 4 |
| 40 | GaAs Junctionless FinFET Using Si3N4 Spacer for High Performance Analog Application. , 2018, , . | | 4 |
| 41 | Internet of Things (IoT) Based Smart Shopping Centre Using RFID. , 2019, , . | | 4 |
| 42 | Highly efficient tin oxideâ€based colloidal lead sulfide quantum dot solar cell. Energy Storage, 2023, 5, . | 4.3 | 4 |
| 43 | GaAs Junctionless FinFET Using High-k Dielectric for High-Performance Applications. , 2018, , . | | 3 |
| 44 | Reliability of Sub-20Ânm Black Phosphorus Trench (BP-T) MOSFET in High-Temperature Harsh Environment. Silicon, 2021, 13, 1277-1283. | 3.3 | 3 |
| 45 | Influence of GaN/ZrO2 interfacial layer defects on 8-nm GaN-SOI-FinFET for reliable RFIC design. AEU - International Journal of Electronics and Communications, 2022, 144, 154045. | 2.9 | 3 |
| 46 | Impact of Channel Doping and Gate Length on Small Signal Behaviour of Gate Electrode Workfunction Engineered Silicon Nanowire MOSFET at THz Frequency. , 2014, , . | | 2 |
| 47 | Carbon Nanotube Recessed Channel (CNT-RC) MOSFET for High Linearity/ULSI Applications. , 2019, , . | | 2 |
| 48 | Design of 4-bit ALU using TEAM Memristor Model and CMOS Logic. , 2020, , . | | 2 |
| 49 | Reliability of high-k gate stack on transparent gate recessed channel (TGRC) MOSFET. , 2017, , . | | 1 |
| 50 | Influence of interface trap charge density on reliability issues of transparent gate recessed channel (TGRC) MOSFET. , 2017, , . | | 1 |
| 51 | Investigation of Different Gate Materials for Improved Device Performance in RC MOSFET. , 2018, , . | | 1 |
| 52 | Effect of Temperature on GaAs Junctionless FinFET Using High-Î $^{\circ}$ Dielectric. , 2019, , . | | 1 |
| 53 | Low-Temperature Reliability of Sub-20nm 4H-SiC Trench MOSFET with Black Phosphorus Gate Material. , 2019, , . | | 1 |
| 54 | Design Analysis and Comparative Study of GDI Based Full Adder Design. , 2020, , . | | 1 |

4

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|----|---|-----------|-------------|
| 55 | Thermal Reliability of GaN-BTG-MOSFET for High-Performance Applications in Integrated Circuits. , 2020, , . | | 1 |
| 56 | Superior energy storage performance coupled with excellent electrical characteristics in lead-free Ba _{0.8} Ca _{0.2} TiO ₃ -(Bi _{0.80} Mg _{0.20}) (Ti _{0.65} Mg _{0.30})O ₃ ceramics. Journal Physics D: Applied Physics, 2021, 54, 495504. | 2.8 | 1 |
| 57 | Detection of Hazardous Analyte Using Transparent Gate Thin-Film Transistor. Lecture Notes in Networks and Systems, 2020, , 197-204. | 0.7 | 1 |
| 58 | Assessment of high-k gate stacked In ₂ O ₅ Sn gate recessed channel MOSFET for x-ray radiation reliability. Engineering Research Express, 2020, 2, 035017. | 1.6 | 1 |
| 59 | Significant Improvement in Magnetic and Magnetoelectric Characteristics of (0.95 â~') Tj ETQq1 1 0.784314 rgBT | /Overlock | 10 Tf 50 58 |
| 07 | Ceramics. IEEE Transactions on Magnetics, 2022, 58, 1-14. | 2.1 | 1 |
| 60 | Performance Assessment of InGaN Double Gate Stack-Oxide MOSFET based Phosphine Gas Sensor: A Catalytic Metal Gate Approach. , 2022, , . | | 1 |
| 61 | Twin gate rectangular recessed channel (TG-RRC) MOSFET for digital-logic applications. , 2017, , . | | 0 |
| 62 | Temperature Reliability of Junctionless Twin Gate Recessed Channel (JL-TGRC) MOSFET with Different Gate Material for Low Power Digital-Logic Applications. , 2018, , . | | 0 |
| 63 | Linearity and Distortion Assessment of Black Phosphorus-Based Junctionless RC MOSFET. , 2018, , . | | 0 |
| 64 | TCAD analysis of transparent gate thin film transistor (TFT) for high performance applications. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 65 | Non-Quasi-Static Small-Signal Modeling of TGRC MOSFET in Parameter Perspective for RF/Microwave Applications. , 2019, , . | | 0 |
| 66 | Gate Engineered GAA Silicon-Nanowire MOSFET for High Switching Performance. , 2020, , . | | 0 |
| 67 | Performance Investigation of Nanoscaled GaN-BTG MOSFET for Analog/Linearity and Low Power Applications. , 2021, , . | | 0 |
| 68 | Numerical Simulation of GaN-BTG MOSFET for Suppression of SCEs. , 2021, , . | | 0 |
| 69 | Static and CV Analysis of Gate Engineered GAA Silicon Nanowire MOSFET for High-Performance Applications. Lecture Notes in Electrical Engineering, 2020, , 59-68. | 0.4 | 0 |
| 70 | Hot carrier reliability assessment of vacuum gate dielectric trench MOSFET (TG-VacuFET). European Physical Journal Plus, 2022, 137, 1. | 2.6 | 0 |