## Jin Wei

## List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Monolithic Integration of Gate Driver and Protection Modules With <i>P</i> GaN Gate Power HEMTs. IEEE Transactions on Industrial Electronics, 2022, 69, 6784-6793.  | 5.2 | 14        |
| 2  | <i><math> x  &lt;  x  &lt; 0</math> <i><math> x  &lt; 0</math></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i> | 5.2 | 17        |
| 3  | 650-V Normally-OFF GaN/SiC Cascode Device for Power Switching Applications. IEEE Transactions on Industrial Electronics, 2022, 69, 8997-9006.   | 5.2 | 5         |
| 4  | ON-Resistance Analysis of GaN Reverse-Conducting HEMT With Distributive Built-In SBD. IEEE Transactions on Electron Devices, 2022, 69, 644-649.   | 1.6 | 7         |
| 5  | Double-Gate RESURF Lateral Insulated Gate Bipolar Transistor With Built-In p-Channel MOSFET for Active Conductivity Modulation Control Throughout Drift Region. IEEE Electron Device Letters, 2022, 43, 272-275.  | 2.2 | 7         |
| 6  | Investigation of Thermally Induced Threshold Voltage Shift in Normally-OFF p-GaN Gate HEMTs. IEEE Transactions on Electron Devices, 2022, 69, 2287-2292.  | 1.6 | 7         |
| 7  | Gate/Drain Coupled Barrier Lowering Effect and Negative Threshold Voltage Shift in Schottky-Type p-GaN Gate HEMT. IEEE Transactions on Electron Devices, 2022, 69, 3630-3635.   | 1.6 | 10        |
| 8  | GaN on Engineered Bulk Si (GaN-on-EBUS) Substrate for Monolithic Integration of High-/Low-Side Switches in Bridge Circuits. IEEE Transactions on Electron Devices, 2022, 69, 4162-4169.   | 1.6 | 5         |
| 9  | Substrate and Trench Design for GaN-on-EBUS Power IC Platform. IEEE Transactions on Electron Devices, 2022, 69, 3641-3647.  | 1.6 | 1         |
| 10 | Dynamic Interplays of Gate Junctions in Schottky-type p-GaN Gate Power HEMTs during Switching Operation., 2022,,.   |     | 5         |
| 11 | Substrate and Trench Design for GaN-on-EBUS Power IC Platform Considering Output Capacitance and Isolation between High-side and Low-side Transistors. , 2022, , .  |     | 1         |
| 12 | <i>Dv/Dt</i> -Control of 1200-V Normally-off SiC-JFET/GaN-HEMT Cascode Device. IEEE Transactions on Power Electronics, 2021, 36, 3312-3322.   | 5.4 | 10        |
| 13 | Short Circuit Capability Characterization and Analysis of <i>p</i> -GaN Gate High-Electron-Mobility Transistors Under Single and Repetitive Tests. IEEE Transactions on Industrial Electronics, 2021, 68, 8798-8807.  | 5.2 | 20        |
| 14 | OFF-State Drain-Voltage-Stress-Induced <i>V</i> <sub>TH</sub> Instability in Schottky-Type p-GaN Gate HEMTs. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3686-3694.   | 3.7 | 36        |
| 15 | Monolithically Integrated GaN Ring Oscillator Based on High-Performance Complementary Logic Inverters. IEEE Electron Device Letters, 2021, 42, 26-29.   | 2.2 | 31        |
| 16 | Incorporating the Dynamic Threshold Voltage Into the SPICE Model of Schottky-Type <i>p</i> GaN Gate Power HEMTs. IEEE Transactions on Power Electronics, 2021, 36, 5904-5914.   | 5.4 | 27        |
| 17 | GaN Integrated Bridge Circuits on Bulk Silicon Substrate: Issues and Proposed Solution. IEEE Journal of the Electron Devices Society, 2021, 9, 545-551.   | 1.2 | 11        |
| 18 | Principles and impacts of dynamic threshold voltage in a p-GaN gate high-electron-mobility transistor. Semiconductor Science and Technology, 2021, 36, 024006.  | 1.0 | 3         |

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| 19 | Threshold Voltage Instability of Enhancement-Mode GaN Buried <i>p</i> Channel MOSFETs. IEEE Electron Device Letters, 2021, 42, 1584-1587.   | 2.2         | 14        |
| 20 | Gate Current Transport in Enhancement-Mode $\langle i \rangle p \langle  i \rangle - \langle i \rangle n \langle  i \rangle$ Junction/AlGaN/GaN (PNJ) HEMT. IEEE Electron Device Letters, 2021, 42, 669-672.  | 2.2         | 11        |
| 21 | Gallium nitride-based complementary logic integrated circuits. Nature Electronics, 2021, 4, 595-603.  | 13.1        | 115       |
| 22 | Decoupling of Forward and Reverse Turn-on Threshold Voltages in Schottky-Type p-GaN Gate HEMTs. IEEE Electron Device Letters, 2021, 42, 986-989.  | 2.2         | 10        |
| 23 | RF Linearity Enhancement of GaN-on-Si HEMTs With a Closely Coupled Double-Channel Structure. IEEE Electron Device Letters, 2021, 42, 1116-1119.   | 2.2         | 21        |
| 24 | A Physics-Based Empirical Model of Dynamic $\langle i \rangle   \langle i \rangle \rangle$ Under Switching Operation in $\langle i \rangle p \langle i \rangle$ -GaN Gate Power HEMTs. IEEE Transactions on Power Electronics, 2021, 36, 9796-9805. | 5.4         | 4         |
| 25 | A New SiC Planar-Gate IGBT for Injection Enhancement Effect and Low Oxide Field. Energies, 2021, 14, 82.  | 1.6         | 1         |
| 26 | A GaN Power Integration Platform Based on Engineered Bulk Si Substrate with Eliminated Crosstalk between High-Side and Low-Side HEMTs. , 2021, , .  |             | 8         |
| 27 | Characterization of Static and Dynamic Behavior of 1200 V Normally off GaN/SiC Cascode Devices. IEEE Transactions on Industrial Electronics, 2020, 67, 10284-10294.   | <b>5.</b> 2 | 21        |
| 28 | Hole-Induced Degradation in \${E}\$ -Mode GaN MIS-FETs: Impact of Substrate Terminations. IEEE Transactions on Electron Devices, 2020, 67, 217-223.   | 1.6         | 9         |
| 29 | GaN power IC technology on <i>p</i> -GaN gate HEMT platform. Japanese Journal of Applied Physics, 2020, 59, SG0801.   | 0.8         | 43        |
| 30 | High $\{I\}_{\text{ext}(ON)}$ and $\{I\}_{\text{ext}(ON)}$ / $\{I\}_{\text{ext}(OFF)}$ Ratio Enhancement-Mode Buried $\{p\}$ -Channel GaN MOSFETs on $\{p\}$ -GaN Gate Power HEMT Platform. IEEE Electron Device Letters, 2020, 41, 26-29.          | 2.2         | 77        |
| 31 | GaN HEMT With Convergent Channel for Low Intrinsic Knee Voltage. IEEE Electron Device Letters, 2020, 41, 1304-1307.   | 2.2         | 15        |
| 32 | Investigation of Electrical Contacts to p-Grid in SiC Power Devices Based on Charge Storage Effect and Dynamic Degradation. Electronics (Switzerland), 2020, 9, 1723.   | 1.8         | 0         |
| 33 | Enhancement-Mode GaN p-Channel MOSFETs for Power Integration. , 2020, , .   |             | 15        |
| 34 | Low-Temperature Accelerated Gate Reliability of Schottky-type p-GaN Gate HEMTs., 2020,,.  |             | 4         |
| 35 | A SPICE-Compatible Equivalent-Circuit Model of Schottky Type p-GaN Gate Power HEMTs with Dynamic Threshold Voltage. , 2020, , .   |             | 9         |
| 36 | 700-V p-GaN Gate HEMT with Low-Voltage Third Quadrant Operation Using Area-Efficient Built-in Diode. , 2020, , .  |             | 4         |

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| 37 | Dv/Dt-control of 1200-V Co-packaged SiC- JFET/GaN-HEMT Cascode Device. , 2020, , .  |     | 3         |
| 38 | Impact of Hole-Deficiency and Charge Trapping on Threshold Voltage Stability of p-GaN HEMT under Reverse-bias Stress. , 2020, , .   |     | 11        |
| 39 | Design of Dual-Gate Superjunction IGBT towards Fully Conductivity-Modulated Bipolar Conduction and Near-Unipolar Turn-Off. , 2020, , .  |     | 3         |
| 40 | Distinct Short Circuit Capability of 650-V p-GaN Gate HEMTs under Single and Repetitive Tests. , 2020, , .  |     | 12        |
| 41 | Exploring SiC Planar IGBTs towards Enhanced Conductivity Modulation Comparable to SiC Trench IGBTs. Crystals, 2020, 10, 417.  | 1.0 | 3         |
| 42 | Extracting the Critical Breakdown Electrical Field of Amorphous Indium-Gallium-Zinc-Oxide From the Avalanche Breakdown of n-Indium-Gallium-Zinc-Oxide/p <sup>+</sup> -Nickel-Oxide Heterojunction Diode. IEEE Electron Device Letters, 2020, 41, 1017-1020. | 2.2 | 7         |
| 43 | Characterization and analysis of low-temperature time-to-failure behavior in forward-biased Schottky-type <i>p</i> -GaN gate HEMTs. Applied Physics Letters, 2020, 116, .   | 1.5 | 17        |
| 44 | Identification of Trap States in p-GaN Layer of a p-GaN/AlGaN/GaN Power HEMT Structure by Deep-Level Transient Spectroscopy. IEEE Electron Device Letters, 2020, 41, 685-688.   | 2.2 | 52        |
| 45 | Investigation of SiN <sub> <i>x</i> </sub> and AlN Passivation for AlGaN/GaN High-Electron-Mobility Transistors: Role of Interface Traps and Polarization Charges. IEEE Journal of the Electron Devices Society, 2020, 8, 358-364.                          | 1.2 | 19        |
| 46 | New Power MOSFET with Beyond-1D-Limit RSP-BV Trade-Off and Superior Reverse Recovery Characteristics. Materials, 2020, 13, 2581.  | 1.3 | 1         |
| 47 | E-Mode <i>p-n</i> Junction/AlGaN/GaN (PNJ) HEMTs. IEEE Electron Device Letters, 2020, 41, 545-548.  | 2.2 | 45        |
| 48 | A Normally-off Copackaged SiC-JFET/GaN-HEMT Cascode Device for High-Voltage and High-Frequency Applications. IEEE Transactions on Power Electronics, 2020, 35, 9669-9679.   | 5.4 | 24        |
| 49 | \$p\$-GaN Gate Power Transistor With Distributed Built-in Schottky Barrier Diode for Low-loss Reverse Conduction. IEEE Electron Device Letters, 2020, 41, 341-344.  | 2.2 | 22        |
| 50 | Planar GaN Power Integration – The World is Flat. , 2020, , .   |     | 30        |
| 51 | All-WBG Cascode Device with p-GaN Gate HEMT and SiC JFET for High-Frequency and High-Temperature Power Switching Applications. , 2020, , .  |     | O         |
| 52 | Substrate Effects in GaN-on-Si Integrated Bridge Circuit and Proposal of Engineered Bulk Silicon Substrate for GaN Power ICs. , 2020, , .   |     | 2         |
| 53 | Superjunction IGBT With Conductivity Modulation Actively Controlled by Two Separate Driving Signals. IEEE Transactions on Electron Devices, 2020, 67, 4335-4339.  | 1.6 | 10        |
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| 55 | Switching Transient Analysis for Normally- <sc>off</sc> GaN Transistor With p-GaN Gate in a Phase-Leg Circuit. IEEE Transactions on Power Electronics, 2019, 34, 3711-3728.                            | 5.4 | 32        |
| 56 | Investigation of Dynamic \${I}_{ mathrm{scriptscriptstyle OFF}}\$ Under Switching Operation in Schottky-Type p-GaN Gate HEMTs. IEEE Transactions on Electron Devices, 2019, 66, 3789-3794.             | 1.6 | 15        |
| 57 | Frequency- and Temperature-Dependent Gate Reliability of Schottky-Type \${p}\$ -GaN Gate HEMTs. IEEE Transactions on Electron Devices, 2019, 66, 3453-3458.  | 1.6 | 79        |
| 58 | Superjunction MOSFET With Dual Built-In Schottky Diodes for Fast Reverse Recovery: A Numerical Simulation Study. IEEE Electron Device Letters, 2019, 40, 1155-1158.                                    | 2.2 | 25        |
| 59 | Temperature-Dependent Gate Degradation of $p$ -GaN Gate HEMTs under Static and Dynamic Positive Gate Stress. , 2019, , .   |     | 10        |
| 60 | Charge-Modulated Schottky Barrier Lowering Effect in GaN Double-Channel Lateral Power SBDs with Gated Anode. , $2019$ , , .  |     | 2         |
| 61 | Integrated High-Speed Over-Current Protection Circuit for GaN Power Transistors., 2019,,.  |     | 12        |
| 62 | Dynamic Threshold Voltage in \$p\$-GaN Gate HEMT. , 2019, , .  |     | 14        |
| 63 | Identifying the Location of Hole-Induced Gate Degradation in $\text{LPCVD} - \text{ext} = \frac{x}{\text{SiN}_{x}/\text{ext}}$ MIS-FETs under High Reverse-Bias Stress. , 2019, , .                    |     | 3         |
| 64 | Characterization of Dynamic \$I_{ext{OFF}}\$ in Schottky-Type \$p\$-GaN Gate HEMTs., 2019,,.   |     | 1         |
| 65 | Gate Structure Design of SiC Trench IGBTs for Injection-Enhancement Effect. IEEE Transactions on Electron Devices, 2019, 66, 3034-3039.  | 1.6 | 13        |
| 66 | A 1200-V GaN/SiC cascode device with E-mode p-GaN gate HEMT and D-mode SiC junction field-effect transistor. Applied Physics Express, 2019, 12, 106505.  | 1.1 | 9         |
| 67 | Investigations of p-Shielded SiC Trench IGBT with Considerations on IE Effect, Oxide Protection and Dynamic Degradation. , 2019, , .   |     | 3         |
| 68 | Repetitive Short Circuit Energy Dependent $V_{\text{Ext}TH}$ Instability of 1.2kV SiC Power MOSFETs., 2019, , .  |     | 3         |
| 69 | Effects of Substrate Termination on Reverse-bias Stress Reliability of Normally-off Lateral GaN-on-Si MIS-FETs., 2019,,.   |     | 1         |
| 70 | Mechanism and Novel Structure for di/dt Controllability in U-Shaped Channel Silicon-on-Insulator Lateral IGBTs. IEEE Electron Device Letters, 2019, 40, 1658-1661.                                     | 2.2 | 9         |
| 71 | 2D materials as semiconducting gate for field-effect transistors with inherent over-voltage protection and boosted ON-current. Npj 2D Materials and Applications, 2019, 3, .                           | 3.9 | 32        |
| 72 | Short Circuit Capability and Short Circuit Induced \$V_{mathrm{TH}}\$ Instability of a 1.2-kV SiC Power MOSFET. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1539-1546. | 3.7 | 43        |

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| 73 | Reverse-Conducting Normally-OFF Double-Channel AlGaN/GaN Power Transistor With Interdigital Built-in Schottky Barrier Diode. IEEE Transactions on Electron Devices, 2019, 66, 2106-2112.  | 1.6 | 12        |
| 74 | Charge Storage Mechanism of Drain Induced Dynamic Threshold Voltage Shift in $p$ -GaN Gate HEMTs. IEEE Electron Device Letters, 2019, 40, 526-529.  | 2.2 | 110       |
| 75 | Reverse-Bias Stability and Reliability of Enhancement-mode GaN-based MIS-FET., 2019, , .  |     | 1         |
| 76 | Enhanced Conduction Characteristics in SiC IGBT with Floating p-Grid Shielded Thick Current Storage Layer. ECS Journal of Solid State Science and Technology, 2019, 8, Q230-Q233.   | 0.9 | 0         |
| 77 | 650-V Double-Channel Lateral Schottky Barrier Diode With Dual-Recess Gated Anode. IEEE Electron Device Letters, 2018, 39, 260-263.  | 2.2 | 63        |
| 78 | Dependence of ${V}_{ext {TH}}$ Stability on Gate-Bias Under Reverse-Bias Stress in E-mode GaN MIS-FET. IEEE Electron Device Letters, 2018, 39, 413-416.   | 2.2 | 38        |
| 79 | Bias Temperature Instability of Normallyâ€Off GaN MISâ€FET with Lowâ€Pressure Chemical Vapor Deposition SiN∢i> <sub>x⟨ i&gt; Gate Dielectric. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700641.</sub> | 0.8 | 5         |
| 80 | Channel-to-Channel Coupling in Normally-Off GaN Double-Channel MOS-HEMT. IEEE Electron Device Letters, 2018, 39, 59-62.   | 2.2 | 24        |
| 81 | Modeling the gate driver IC for GaN transistor: A black-box approach. , 2018, , .   |     | 3         |
| 82 | Suppressed Hole-Induced Degradation in E-mode GaN MIS-FETs with Crystalline $$\langle ex\rangle = GaO\}_{mathrm\{x\}} \$ where \$\$ \def (BaO)_{mathrm\{x\}} \  |     | 4         |
| 83 | Simulation Study of a Power MOSFET with Built-in Channel Diode for Enhanced Reverse Recovery Performance. IEEE Electron Device Letters, 2018, , 1-1.  | 2.2 | 26        |
| 84 | An Analytical Investigation on the Charge Distribution and Gate Control in the Normally-Off GaN Double-Channel MOS-HEMT. IEEE Transactions on Electron Devices, 2018, 65, 2757-2764.  | 1.6 | 30        |
| 85 | Hole-Induced Threshold Voltage Shift Under Reverse-Bias Stress in E-Mode GaN MIS-FET. IEEE<br>Transactions on Electron Devices, 2018, 65, 3831-3838.  | 1.6 | 20        |
| 86 | SiC trench IGBT with diode-clamped p-shield for oxide protection and enhanced conductivity modulation. , 2018, , .  |     | 8         |
| 87 | Reverse-blocking AlGaN/GaN normally-off MIS-HEMT with double-recessed gated Schottky drain. , 2018, , .   |     | 9         |
| 88 | Dynamic OFF-State Current (Dynamic $\{I\}_{\text{mathrm}}$ mathrm{scriptscriptstyle OFF}}\$) in $\{p\}$ -GaN Gate HEMTs With an Ohmic Gate Contact. IEEE Electron Device Letters, 2018, 39, 1366-1369.                                | 2.2 | 27        |
| 89 | Reverse-Blocking Normally-OFF GaN Double-Channel MOS-HEMT With Low Reverse Leakage Current and Low ON-State Resistance. IEEE Electron Device Letters, 2018, 39, 1003-1006.  | 2.2 | 29        |
| 90 | Photon emission and current-collapse suppression of AlGaN/GaN field-effect transistors with photonic–ohmic drain at high temperatures. Applied Physics Express, 2018, 11, 071003.   | 1.1 | 6         |

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| 91  | A New SiC Trench MOSFET Structure With Protruded p-Base for Low Oxide Field and Enhanced Switching Performance. IEEE Transactions on Device and Materials Reliability, 2017, 17, 432-437.                  | 1.5 | 29        |
| 92  | Dynamic Degradation in SiC Trench MOSFET With a Floating p-Shield Revealed With Numerical Simulations. IEEE Transactions on Electron Devices, 2017, 64, 2592-2598.   | 1.6 | 69        |
| 93  | Normally-Off LPCVD-SiN <italic> <sub>x</sub> </italic> /GaN MIS-FET With Crystalline Oxidation Interlayer. IEEE Electron Device Letters, 2017, 38, 929-932.  | 2.2 | 67        |
| 94  | Dynamic \$R_{mathrm {ON}}\$ of GaN-on-Si Lateral Power Devices With a Floating Substrate Termination. IEEE Electron Device Letters, 2017, 38, 937-940.   | 2.2 | 31        |
| 95  | Simulation design of uniform low turn-on voltage and high reverse blocking AlGaN/GaN power field effect rectifier with trench heterojunction anode. Superlattices and Microstructures, 2017, 105, 132-138. | 1.4 | 12        |
| 96  | High-speed power MOSFET with low reverse transfer capacitance using a trench/planar gate architecture. , $2017$ , , .  |     | 8         |
| 97  | Charge storage effect in SiC trench MOSFET with a floating p-shield and its impact on dynamic performances. , 2017, , .  |     | 9         |
| 98  | Impact of substrate termination on dynamic performance of GaN-on-Si lateral power devices., 2017,,.  |     | 4         |
| 99  | High-performance fully-recessed enhancement-mode GaN MIS-FETs with crystalline oxide interlayer. , 2017, , .   |     | 9         |
| 100 | SiC MOSFET with built-in SBD for reduction of reverse recovery charge and switching loss in $10\text{-kV}$ applications., $2017$ ,,.   |     | 38        |
| 101 | SiC trench MOSFET with selfâ€biased pâ€shield for low <i>R</i> <sub>ONâ€5P</sub> and low OFFâ€state oxide field. IET Power Electronics, 2017, 10, 1208-1213.   | 1.5 | 13        |
| 102 | Remote N <sub>2</sub> plasma treatment to deposit ultrathin high- <i>k</i> dielectric as tunneling contact layer for single-layer MoS <sub>2</sub> MOSFET. Applied Physics Express, 2017, 10, 125201.      | 1.1 | 2         |
| 103 | Maximizing the Performance of 650-V p-GaN Gate HEMTs: Dynamic RON Characterization and Circuit Design Considerations. IEEE Transactions on Power Electronics, 2017, 32, 5539-5549.                         | 5.4 | 205       |
| 104 | An interdigitated GaN MIS-HEMT/SBD normally-off power switching device with low ON-resistance and low reverse conduction loss. , 2017, , .   |     | 25        |
| 105 | Impact of Substrate Bias Polarity on Buffer-Related Current Collapse in AlGaN/GaN-on-Si Power Devices. IEEE Transactions on Electron Devices, 2017, 64, 5048-5056.   | 1.6 | 69        |
| 106 | Reverse-bias stability and reliability of hole-barrier-free E-mode LPCVD-SiN<inf>x</inf>/GaN MIS-FETs. , $2017$ , , .  |     | 17        |
| 107 | Maximizing the performance of 650 V p-GaN gate HEMTs: Dynamic ron characterization and gate-drive design considerations. , 2016, , .   |     | 9         |
| 108 | Critical heterostructure design for low on-resistance normally-off double-channel MOS-HEMT. , 2016, , .  |     | 0         |

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| 109 | Integration of LPCVD-SiN <inf>x</inf> gate dielectric with recessed-gate E-mode GaN MIS-FETs: Toward high performance, high stability and long TDDB lifetime. , 2016, , .                    |     | 43        |
| 110 | Characterization of Static and Dynamic Behaviors in AlGaN/GaN-on-Si Power Transistors With Photonic-Ohmic Drain. IEEE Transactions on Electron Devices, 2016, 63, 2831-2837.                 | 1.6 | 16        |
| 111 | Proposal of a GaN/SiC Hybrid Field-Effect Transistor for Power Switching Applications. IEEE Transactions on Electron Devices, 2016, 63, 2469-2473.   | 1.6 | 53        |
| 112 | Proposal of a novel GaN/SiC hybrid FET (HyFET) with enhanced performance for high-voltage switching applications. , $2016$ , , .   |     | 4         |
| 113 | Silicon carbide split-gate MOSFET with merged Schottky barrier diode and reduced switching loss. , 2016, , .   |     | 45        |
| 114 | SiC Trench MOSFET With Shielded Fin-Shaped Gate to Reduce Oxide Field and Switching Loss. IEEE Electron Device Letters, 2016, 37, 1324-1327.   | 2.2 | 57        |
| 115 | Switching Behaviors of On-Chip Photon Source on AlGaN/GaN-on-Si Power HEMTs Platform. IEEE Photonics Technology Letters, 2016, 28, 2803-2806.  | 1.3 | 3         |
| 116 | Low ON-Resistance SiC Trench/Planar MOSFET With Reduced OFF-State Oxide Field and Low Gate Charges. IEEE Electron Device Letters, 2016, 37, 1458-1461.                                       | 2.2 | 71        |
| 117 | Impact of integrated photonic-ohmic drain on static and dynamic characteristics of GaN-on-Si heterojunction power transistors. , 2016, , .   |     | 1         |
| 118 | Enhancement-mode GaN double-channel MOS-HEMT with low on-resistance and robust gate recess. , 2015, , .  |     | 38        |
| 119 | III-Nitride transistors with photonic-ohmic drain for enhanced dynamic performances., 2015,,.  |     | 18        |
| 120 | Low On-Resistance Normally-Off GaN Double-Channel Metal–Oxide–Semiconductor High-Electron-Mobility Transistor. IEEE Electron Device Letters, 2015, 36, 1287-1290.                            | 2.2 | 88        |
| 121 | Investigations of leakage current properties in semi-insulating GaN grown on Si(1 1 1) substrate with low-temperature AlN interlayers. Journal Physics D: Applied Physics, 2014, 47, 045103. | 1.3 | 15        |
| 122 | Electric Field Distribution Around Drain-Side Gate Edge in AlGaN/GaN HEMTs: Analytical Approach. IEEE Transactions on Electron Devices, 2013, 60, 3223-3229.                                 | 1.6 | 49        |
| 123 | Investigation of device geometry- and temperature-dependent characteristics of AlGaN/GaN lateral field-effect rectifier. Semiconductor Science and Technology, 2013, 28, 015021.             | 1.0 | 5         |
| 124 | A novel rectifier with low turn-on voltage utilizing three conducting mechanisms at different voltage levels. , 2012, , .  |     | 0         |
| 125 | Band-to-Band Tunneling Injection Insulated-Gate Bipolar Transistor with a Soft Reverse-Recovery Built-In Diode. IEEE Electron Device Letters, 2012, 33, 1684-1686.                           | 2.2 | 28        |
| 126 | High Voltage SiC JBS Diodes with Multiple Zone Junction Termination Extension Using Single Etching Step. Materials Science Forum, 0, 778-780, 808-811.                                       | 0.3 | 1         |