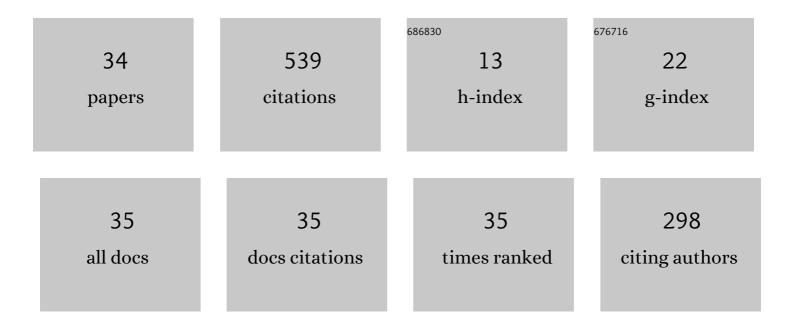
Zeheng Wang

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | High-κ perovskite membranes as insulators for two-dimensional transistors. Nature, 2022, 605, 262-267. | 13.7 | 109 |
| 2 | 7.6 V Threshold Voltage High-Performance Normally-Off Al ₂ O ₃ /GaN MOSFET Achieved by Interface Charge Engineering. IEEE Electron Device Letters, 2016, 37, 165-168. | 2.2 | 88 |
| 3 | Evaluating the Traditional Chinese Medicine (TCM) Officially Recommended in China for COVID-19 Using Ontology-Based Side-Effect Prediction Framework (OSPF) and Deep Learning. Journal of Ethnopharmacology, 2021, 272, 113957. | 2.0 | 44 |
| 4 | Numerical investigation on AlGaN/GaN short channel HEMT with AlGaN/InGaN/AlGaN quantum well plate. Superlattices and Microstructures, 2018, 120, 753-758. | 1.4 | 20 |
| 5 | An Ontology-Based Artificial Intelligence Model for Medicine Side-Effect Prediction: Taking Traditional Chinese Medicine as an Example. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-7. | 0.7 | 20 |
| 6 | A High-Performance Tunable LED-Compatible Current Regulator Using an Integrated Voltage Nanosensor. IEEE Transactions on Electron Devices, 2019, 66, 1917-1923. | 1.6 | 20 |
| 7 | Proposal of a novel enhancement type AlGaN/GaN HEMT using recess-free field coupled gate. Superlattices and Microstructures, 2018, 122, 343-348. | 1.4 | 18 |
| 8 | Simulation study on AlGaN/GaN diode with Γ-shaped anode for ultra-low turn-on voltage. Superlattices and Microstructures, 2018, 117, 330-335. | 1.4 | 17 |
| 9 | Charge storage impact on input capacitance in p-GaN gate AlGaN/GaN power high-electron-mobility transistors. Journal Physics D: Applied Physics, 2020, 53, 305106. | 1.3 | 17 |
| 10 | Simulation Study of an Ultralow Switching Loss p-GaN Gate HEMT With Dynamic Charge Storage Mechanism. IEEE Transactions on Electron Devices, 2021, 68, 175-183. | 1.6 | 17 |
| 11 | Simulation study of highâ€reverse blocking AlGaN/GaN power rectifier with an integrated lateral composite buffer diode. Micro and Nano Letters, 2017, 12, 660-663. | 0.6 | 15 |
| 12 | A Machine Learning-Assisted Model for GaN Ohmic Contacts Regarding the Fabrication Processes. IEEE Transactions on Electron Devices, 2021, 68, 2212-2219. | 1.6 | 15 |
| 13 | Design and Optimization on a Novel High-Performance Ultra-Thin Barrier AlGaN/GaN Power HEMT With Local Charge Compensation Trench. Applied Sciences (Switzerland), 2019, 9, 3054. | 1.3 | 14 |
| 14 | On the Baliga's Figure-Of-Merits (BFOM) Enhancement of a Novel GaN Nano-Pillar Vertical Field Effect Transistor (FET) with 2DEG Channel and Patterned Substrate. Nanoscale Research Letters, 2019, 14, 128. | 3.1 | 14 |
| 15 | An analytical model on the gate control capability in p-GaN Gate AlGaN/GaN high-electron-mobility transistors considering buffer acceptor traps. Journal Physics D: Applied Physics, 2021, 54, 095107. | 1.3 | 13 |
| 16 | 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 |
| 17 | A novel technology for turn-on voltage reduction of high-performance lateral heterojunction diode with source-gate shorted anode. Superlattices and Microstructures, 2019, 125, 144-150. | 1.4 | 12 |
| 18 | Proposal of a novel recess-free enhancement-mode AlGaN/GaN HEMT with field-assembled structure: a simulation study. Journal of Computational Electronics, 2019, 18, 1251-1258. | 1.3 | 11 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Approaching High-Accuracy Side Effect Prediction of Traditional Chinese Medicine Compound Prescription Using Network Embedding and Deep Learning. IEEE Access, 2020, 8, 82493-82499. | 2.6 | 10 |
| 20 | Threshold voltage modulation by interface charge engineering for high performance normally-off GaN MOSFETs with high faulty turn-on immunity. , 2016, , . | | 8 |
| 21 | Approaching ultra-low turn-on voltage in GaN lateral diode. Semiconductor Science and Technology, 2021, 36, 014003. | 1.0 | 7 |
| 22 | Two-dimensional polarization doping of GaN heterojunction and its potential for realizing lateral p–n junction devices. Applied Physics A: Materials Science and Processing, 2022, 128, . | 1.1 | 5 |
| 23 | A Novel High Performance Lateral AlGaN/GaN Schottky Barrier Diode Using Highly Effective Field Plate with Polarization Enhanced Channel. , 2019, , . | | 4 |
| 24 | A LED-Compatible Current Regulator with Integrated Electrically Adjustable Sensor. , 2019, , . | | 4 |
| 25 | A low turn-on voltage AlGaN/GaN lateral field-effect rectifier compatible with p-GaN gate HEMT technology. Semiconductor Science and Technology, 2021, 36, 034004. | 1.0 | 4 |
| 26 | Lateral AlGaN/GaN diode with MISâ€gated hybrid anode for highâ€sensitivity zeroâ€bias microwave detection. Electronics Letters, 2015, 51, 1889-1891. | 0.5 | 2 |
| 27 | A Novel Enhancement-Type GaN HEMT with High Power Transmission Capability Using Extended Quantum Well Channel. , 2020, , . | | 2 |
| 28 | A Novel High-Performance Bipolar GaN Diode Realized by Broadened Quantum Well and Three-Dimensional Carrier Sea. , 2020, , . | | 2 |
| 29 | 0.3 VT/1.1 kV AlGaN/GaN lateral power diode with MIS-gated hybrid anode on silicon substrate. , 2016, , . | | 1 |
| 30 | Physics of dynamic threshold voltage and steep subthreshold swing in Al ₂ O ₃ –InAlN–GaN MOSHEMTs. Semiconductor Science and Technology, 2016, 31, 035005. | 1.0 | 1 |
| 31 | Modelling on GaN Power HEMT with Condideration of Subthreshold Swing Using Artificial Intelligence Technology. , 2019, , . | | 1 |
| 32 | High performance normally-off Al2O3/GaN MOSFETs with record high threshold voltage by interface charge engineering. , 2016, , . | | 0 |
| 33 | A monolithic integration scheme for GaN-based power converter integrated circuit using fully-Schottky versatile HEMTs. IOP Conference Series: Materials Science and Engineering, 2020, 733, 012018. | 0.3 | 0 |
| 34 | A Novel GaN Bidirectional Current Rectifier Using Self-Quantum Channel Modulation. , 2021, , . | | 0 |