

Stacia Keller

List of Publications by Citations

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244
papers

6,918
citations

42
h-index

73
g-index

253
ext. papers

7,810
ext. citations

3.1
avg, IF

5.67
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 244 | Origin of defect-insensitive emission probability in In-containing (Al,In,Ga)N alloy semiconductors. <i>Nature Materials</i> , 2006 , 5, 810-6 | 27 | 548 |
| 243 | Growth of Fe doped semi-insulating GaN by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2002 , 81, 439-441 | 3.4 | 294 |
| 242 | Development of gallium-nitride-based light-emitting diodes (LEDs) and laser diodes for energy-efficient lighting and displays. <i>Acta Materialia</i> , 2013 , 61, 945-951 | 8.4 | 283 |
| 241 | Crystallographic orientation dependence of dopant and impurity incorporation in GaN films grown by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2009 , 311, 3817-3823 | 1.6 | 170 |
| 240 | Demonstration of Nonpolar-m-Plane InGaN/GaN Light-Emitting Diodes on Free-Standing-m-Plane GaN Substrates. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L173-L175 | 1.4 | 170 |
| 239 | High internal and external quantum efficiency InGaN/GaN solar cells. <i>Applied Physics Letters</i> , 2011 , 98, 021102 | 3.4 | 155 |
| 238 | Polarization effects in AlGaIn/GaN and GaN/AlGaIn/GaN heterostructures. <i>Journal of Applied Physics</i> , 2003 , 93, 10114-10118 | 2.5 | 151 |
| 237 | Infrared and Raman-scattering studies in single-crystalline GaN nanowires. <i>Chemical Physics Letters</i> , 2001 , 345, 245-251 | 2.5 | 143 |
| 236 | Realization of wide electron slabs by polarization bulk doping in graded III-V nitride semiconductor alloys. <i>Applied Physics Letters</i> , 2002 , 81, 4395-4397 | 3.4 | 136 |
| 235 | Memory Effect and Redistribution of Mg into Sequentially Regrown GaN Layer by Metalorganic Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 50-53 | 1.4 | 135 |
| 234 | Recent progress in metal-organic chemical vapor deposition of $\bar{1}11$ N-polar group-III nitrides. <i>Semiconductor Science and Technology</i> , 2014 , 29, 113001 | 1.8 | 129 |
| 233 | N-polar GaN epitaxy and high electron mobility transistors. <i>Semiconductor Science and Technology</i> , 2013 , 28, 074009 | 1.8 | 124 |
| 232 | Ultralow nonalloyed Ohmic contact resistance to self aligned N-polar GaN high electron mobility transistors by In(Ga)N regrowth. <i>Applied Physics Letters</i> , 2010 , 96, 143504 | 3.4 | 101 |
| 231 | In Situ Oxide, GaN Interlayer-Based Vertical Trench MOSFET (OG-FET) on Bulk GaN substrates. <i>IEEE Electron Device Letters</i> , 2017 , 38, 353-355 | 4.4 | 99 |
| 230 | Demonstration of Constant 8 W/mm Power Density at 10, 30, and 94 GHz in State-of-the-Art Millimeter-Wave N-Polar GaN MISHEMTs. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 45-50 | 2.9 | 98 |
| 229 | Polarity in GaN and ZnO: Theory, measurement, growth, and devices. <i>Applied Physics Reviews</i> , 2016 , 3, 041303 | 17.3 | 85 |
| 228 | Radiative and nonradiative processes in strain-free Al _x Ga _{1-x} N films studied by time-resolved photoluminescence and positron annihilation techniques. <i>Journal of Applied Physics</i> , 2004 , 95, 2495-2504 | 2.5 | 82 |

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| 227 | Two-photon absorption study of GaN. <i>Applied Physics Letters</i> , 2000 , 76, 439-441 | 3.4 | 82 |
| 226 | Charge control and mobility in AlGaIn/GaN transistors: Experimental and theoretical studies. <i>Journal of Applied Physics</i> , 2000 , 87, 7981-7987 | 2.5 | 78 |
| 225 | Design, fabrication, and performance analysis of GaN vertical electron transistors with a buried p/n junction. <i>Applied Physics Letters</i> , 2015 , 106, 183502 | 3.4 | 68 |
| 224 | Metalorganic chemical vapor deposition of group III nitrides— discussion of critical issues. <i>Journal of Crystal Growth</i> , 2003 , 248, 479-486 | 1.6 | 65 |
| 223 | Nonpolar m-Plane Blue-Light-Emitting Diode Lamps with Output Power of 23.5 mW under Pulsed Operation. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 739-741 | 1.4 | 60 |
| 222 | Preparation of indium nitride micro- and nanostructures by ammonolysis of indium oxide. <i>Journal of Materials Chemistry</i> , 2004 , 14, 637 | | 59 |
| 221 | Normally OFF Trench CAVET With Active Mg-Doped GaN as Current Blocking Layer. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 805-808 | 2.9 | 58 |
| 220 | . <i>IEEE Electron Device Letters</i> , 2008 , 29, 974-976 | 4.4 | 58 |
| 219 | High conductivity modulation doped AlGaIn/GaN multiple channel heterostructures. <i>Journal of Applied Physics</i> , 2003 , 94, 5321 | 2.5 | 57 |
| 218 | N-Polar GaN Cap MISHEMT With Record Power Density Exceeding 6.5 W/mm at 94 GHz. <i>IEEE Electron Device Letters</i> , 2017 , 38, 359-362 | 4.4 | 56 |
| 217 | Atom probe analysis of AlN interlayers in AlGaIn/AlN/GaN heterostructures. <i>Applied Physics Letters</i> , 2013 , 102, 111603 | 3.4 | 55 |
| 216 | Effect of doping and polarization on carrier collection in InGaIn quantum well solar cells. <i>Applied Physics Letters</i> , 2011 , 98, 243507 | 3.4 | 55 |
| 215 | 880 V/ $2.7 \times 10^{10} \text{ cm}^{-2}$ MIS Gate Trench CAVET on Bulk GaN Substrates. <i>IEEE Electron Device Letters</i> , 2018 , 39, 863-865 | 4.4 | 54 |
| 214 | Low nonalloyed Ohmic contact resistance to nitride high electron mobility transistors using N-face growth. <i>Applied Physics Letters</i> , 2007 , 91, 232103 | 3.4 | 53 |
| 213 | Spiral Growth of InGaIn Nanoscale Islands on GaN. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, L431-L434 | 4.4 | 51 |
| 212 | Scanning second-harmonic/third-harmonic generation microscopy of gallium nitride. <i>Applied Physics Letters</i> , 2000 , 77, 2331-2333 | 3.4 | 51 |
| 211 | High-transconductance self-aligned AlGaIn/GaN modulation-doped field-effect transistors with regrown ohmic contacts. <i>Applied Physics Letters</i> , 1998 , 73, 3147-3149 | 3.4 | 50 |
| 210 | N-Polar GaN HEMTs Exhibiting Record Breakdown Voltage Over 2000 V and Low Dynamic On-Resistance. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1014-1017 | 4.4 | 50 |

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| 209 | OG-FET: An In-Situ SiO_2 xide, Si_3N_4 Interlayer-Based Vertical Trench MOSFET. <i>IEEE Electron Device Letters</i> , 2016 , 37, 1601-1604 | 4.4 | 49 |
| 208 | Effect of quantum well cap layer thickness on the microstructure and performance of InGaN/GaN solar cells. <i>Applied Physics Letters</i> , 2012 , 100, 161101 | 3.4 | 47 |
| 207 | Growth study and impurity characterization of Al _x In _{1-x} N grown by metal organic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2011 , 324, 163-167 | 1.6 | 45 |
| 206 | Mass transport regrowth of GaN for ohmic contacts to AlGaIn/GaN. <i>Applied Physics Letters</i> , 2001 , 78, 2876-2878 | 3.4 | 45 |
| 205 | Growth and characterization of N-polar GaN films on SiC by metal organic chemical vapor deposition. <i>Journal of Applied Physics</i> , 2008 , 104, 024301 | 2.5 | 44 |
| 204 | W-Band Power Performance of SiN-Passivated N-Polar GaN Deep Recess HEMTs. <i>IEEE Electron Device Letters</i> , 2020 , 41, 349-352 | 4.4 | 42 |
| 203 | Effect of the Nucleation Conditions on the Polarity of AlN and GaN Films Grown on C-face 6H-SiC. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L322-L325 | 1.4 | 42 |
| 202 | Visible resonant modes in GaN-based photonic crystal membrane cavities. <i>Applied Physics Letters</i> , 2006 , 88, 031111 | 3.4 | 42 |
| 201 | Recessed Slant Gate AlGaIn/GaN High Electron Mobility Transistors with 20.9 W/mm at 10 GHz. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L1087-L1089 | 1.4 | 42 |
| 200 | Effect of the Trimethylgallium Flow during Nucleation Layer Growth on the Properties of GaN Grown on Sapphire. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, L285-L288 | 1.4 | 41 |
| 199 | Design of High-Aspect-Ratio T-Gates on N-Polar GaN/AlGaIn MIS-HEMTs for High f_{max} . <i>IEEE Electron Device Letters</i> , 2012 , 33, 785-787 | 4.4 | 40 |
| 198 | Impact of strain on free-exciton resonance energies in wurtzite AlN. <i>Journal of Applied Physics</i> , 2007 , 102, 123707 | 2.5 | 40 |
| 197 | Demonstrating >1.4 kV OG-FET performance with a novel double field-plated geometry and the successful scaling of large-area devices 2017 , | | 39 |
| 196 | Comparing electrical performance of GaN trench-gate MOSFETs with a-plane SiO_2 and m-plane SiO_2 sidewall channels. <i>Applied Physics Express</i> , 2016 , 9, 121001 | 2.4 | 38 |
| 195 | Gallium Nitride Powders from Ammonolysis: Influence of Reaction Parameters on Structure and Properties. <i>Chemistry of Materials</i> , 2004 , 16, 5088-5095 | 9.6 | 37 |
| 194 | Epitaxial Lateral Overgrowth of High Al Composition AlGaIn Alloys on Deep Grooved SiC Substrates. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L405-L407 | 1.4 | 37 |
| 193 | A comparative study of effects of SiNx deposition method on AlGaIn/GaN heterostructure field-effect transistors. <i>Applied Physics Letters</i> , 2009 , 94, 053513 | 3.4 | 36 |
| 192 | Dispersion Free 450-V p GaN-Gated CAVETs With Mg-ion Implanted Blocking Layer. <i>IEEE Electron Device Letters</i> , 2017 , 38, 933-936 | 4.4 | 35 |

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|-----|--|-----|----|
| 191 | Demonstration of ultra-small (0.2%) for mini-displays. <i>Applied Physics Express</i> , 2021 , 14, 011004 | 2.4 | 35 |
| 190 | Relaxed-plane InGaN layers for the growth of strain-reduced InGaN quantum wells. <i>Semiconductor Science and Technology</i> , 2015 , 30, 105015 | 1.8 | 34 |
| 189 | Capacitance-voltage characterization of interfaces between positive valence band offset dielectrics and wide bandgap semiconductors. <i>Journal of Applied Physics</i> , 2013 , 114, 083718 | 2.5 | 34 |
| 188 | Large-Area In-Situ Oxide, GaN Interlayer-Based Vertical Trench MOSFET (OG-FET). <i>IEEE Electron Device Letters</i> , 2018 , 39, 711-714 | 4.4 | 33 |
| 187 | Optical Properties of InGaN/GaN Quantum Wells with Si Doped Barriers. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, L1362-L1364 | 1.4 | 33 |
| 186 | Plasma Treatment for Leakage Reduction in AlGaIn/GaN and GaN Schottky Contacts. <i>IEEE Electron Device Letters</i> , 2008 , 29, 297-299 | 4.4 | 32 |
| 185 | Growth and properties of InGaIn nanoscale islands on GaN. <i>Journal of Crystal Growth</i> , 1998 , 189-190, 29-32 | 1.6 | 31 |
| 184 | N-Face Metal/Insulator/Semiconductor High-Electron-Mobility Transistors With AlN Back-Barrier. <i>IEEE Electron Device Letters</i> , 2008 , 29, 1101-1104 | 4.4 | 31 |
| 183 | Impact of CF_4 Plasma Treatment on GaN. <i>IEEE Electron Device Letters</i> , 2007 , 28, 781-783 | 4.4 | 31 |
| 182 | Microwave Power Performance N-Polar GaN MISHEMTs Grown by MOCVD on SiC Substrates Using an Al_2O_3 Etch-Stop Technology. <i>IEEE Electron Device Letters</i> , 2012 , 33, 44-46 | 4.4 | 30 |
| 181 | Ion versus pH sensitivity of ungated AlGaIn/GaN heterostructure-based devices. <i>Applied Physics Letters</i> , 2010 , 97, 012108 | 3.4 | 30 |
| 180 | Indium segregation in N-polar InGaIn quantum wells evidenced by energy dispersive X-ray spectroscopy and atom probe tomography. <i>Applied Physics Letters</i> , 2017 , 110, 143101 | 3.4 | 29 |
| 179 | Impact of Moisture and Fluorocarbon Passivation on the Current Collapse of AlGaIn/GaN HEMTs. <i>IEEE Electron Device Letters</i> , 2012 , 33, 1378-1380 | 4.4 | 29 |
| 178 | Two-Stage High-Gain High-Power Distributed Amplifier Using Dual-Gate GaN HEMTs. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011 , 59, 2059-2063 | 4.1 | 28 |
| 177 | Demonstration of GaN Current Aperture Vertical Electron Transistors With Aperture Region Formed by Ion Implantation. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 483-487 | 2.9 | 27 |
| 176 | N-Polar GaN MIS-HEMTs on Sapphire With High Combination of Power Gain Cutoff Frequency and Three-Terminal Breakdown Voltage. <i>IEEE Electron Device Letters</i> , 2016 , 37, 77-80 | 4.4 | 27 |
| 175 | Demonstration of a GaN/AlGaIn Superlattice-Based p-Channel FinFET With High ON-Current. <i>IEEE Electron Device Letters</i> , 2020 , 41, 220-223 | 4.4 | 27 |
| 174 | Growth and characterization of In-polar and N-polar InAlN by metal organic chemical vapor deposition. <i>Journal of Applied Physics</i> , 2010 , 107, 033509 | 2.5 | 26 |

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| 173 | N-Polar InAlN/AlN/GaN MIS-HEMTs. <i>IEEE Electron Device Letters</i> , 2010 , 31, 800-802 | 4.4 | 26 |
| 172 | N-Polar GaN MIS-HEMTs With a 12.1-W/mm Continuous-Wave Output Power Density at 4 GHz on Sapphire Substrate. <i>IEEE Electron Device Letters</i> , 2011 , 32, 635-637 | 4.4 | 26 |
| 171 | Generation of coherent acoustic phonons in strained GaN thin films. <i>Applied Physics Letters</i> , 2001 , 79, 3361-3363 | 3.4 | 26 |
| 170 | Model to explain the behavior of 2DEG mobility with respect to charge density in N-polar and Ga-polar AlGa _N -Ga _N heterostructures. <i>Journal of Applied Physics</i> , 2016 , 120, 115302 | 2.5 | 26 |
| 169 | . <i>IEEE Electron Device Letters</i> , 2017 , 38, 1575-1578 | 4.4 | 25 |
| 168 | Growth of strain-relaxed InGa _N on micrometer-sized patterned compliant Ga _N pseudo-substrates. <i>Applied Physics Letters</i> , 2020 , 116, 111101 | 3.4 | 23 |
| 167 | Measurement of the hot electron mean free path and the momentum relaxation rate in Ga _N . <i>Applied Physics Letters</i> , 2014 , 105, 263506 | 3.4 | 23 |
| 166 | Electrical properties of N-polar AlGa _N /Ga _N high electron mobility transistors grown on SiC by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2009 , 94, 153506 | 3.4 | 23 |
| 165 | Luminescence Characteristics of N-Polar Ga _N and InGa _N Films Grown by Metal Organic Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 071003 | 1.4 | 23 |
| 164 | Growth of high purity N-polar (In,Ga) _N films. <i>Journal of Crystal Growth</i> , 2017 , 464, 127-131 | 1.6 | 21 |
| 163 | RF Performance of N-Polar AlGa _N /Ga _N MIS-HEMTs Grown by MOCVD on Sapphire Substrate. <i>IEEE Electron Device Letters</i> , 2009 , 30, 584-586 | 4.4 | 21 |
| 162 | Non-planar Selective Area Growth and Characterization of Ga _N and AlGa _N . <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 6276-6283 | 1.4 | 21 |
| 161 | Milliwatt Power Deep Ultraviolet Light Emitting Diodes Grown on Silicon Carbide. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L502-L504 | 1.4 | 21 |
| 160 | Suppression of Mg propagation into subsequent layers grown by MOCVD. <i>Journal of Applied Physics</i> , 2017 , 121, 025106 | 2.5 | 20 |
| 159 | Fabrication of relaxed InGa _N pseudo-substrates composed of micron-sized pattern arrays with high fill factors using porous Ga _N . <i>Semiconductor Science and Technology</i> , 2019 , 34, 115020 | 1.8 | 20 |
| 158 | Influence of AlN interlayer on the anisotropic electron mobility and the device characteristics of N-polar AlGa _N /Ga _N metal-insulator-semiconductor-high electron mobility transistors grown on vicinal substrates. <i>Journal of Applied Physics</i> , 2010 , 108, 074502 | 2.5 | 20 |
| 157 | High-Performance N-Face Ga _N Microwave MIS-HEMTs With > 70% Power-Added Efficiency. <i>IEEE Electron Device Letters</i> , 2009 , 30, 802-804 | 4.4 | 20 |
| 156 | Very high channel conductivity in ultra-thin channel N-polar Ga _N /(AlN, InAlN, AlGa _N) high electron mobility hetero-junctions grown by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2013 , 102, 232104 | 3.4 | 19 |

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| 155 | Metalorganic Chemical Vapor Deposition Conditions for Efficient Silicon Doping in High Al-Composition AlGa _N Films. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 7227-7233 | 1.4 | 19 |
| 154 | Color-tunable . <i>Applied Physics Letters</i> , 2020 , 117, 061105 | 3.4 | 19 |
| 153 | Elimination of columnar microstructure in N-face InAlN, lattice-matched to GaN, grown by plasma-assisted molecular beam epitaxy in the N-rich regime. <i>Applied Physics Letters</i> , 2014 , 104, 072107 | 3.4 | 18 |
| 152 | Engineering the (In, Al, Ga)N back-barrier to achieve high channel-conductivity for extremely scaled channel-thicknesses in N-polar GaN high-electron-mobility-transistors. <i>Applied Physics Letters</i> , 2014 , 104, 092107 | 3.4 | 18 |
| 151 | Electrical and structural characterization of Mg-doped p-type Al _{0.69} Ga _{0.31} N films on SiC substrate. <i>Journal of Applied Physics</i> , 2007 , 101, 053717 | 2.5 | 18 |
| 150 | N-Polar Deep Recess MISHEMTs With Record 2.9 W/mm at 94 GHz. <i>IEEE Electron Device Letters</i> , 2016 , 1-1 | 4.4 | 18 |
| 149 | High Linearity and High Gain Performance of N-Polar GaN MIS-HEMT at 30 GHz. <i>IEEE Electron Device Letters</i> , 2020 , 41, 681-684 | 4.4 | 17 |
| 148 | . <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 2589-2596 | 2.9 | 17 |
| 147 | Enhancement-Mode m-plane AlGa _N /Ga _N Heterojunction Field-Effect Transistors with +3 V of Threshold Voltage Using Al ₂ O ₃ Deposited by Atomic Layer Deposition. <i>Applied Physics Express</i> , 2011 , 4, 096501 | 2.4 | 17 |
| 146 | Growth of embedded photonic crystals for GaN-based optoelectronic devices. <i>Journal of Applied Physics</i> , 2009 , 106, 024309 | 2.5 | 17 |
| 145 | Study of interface barrier of SiN _x /Ga _N interface for nitrogen-polar Ga _N based high electron mobility transistors. <i>Journal of Applied Physics</i> , 2008 , 103, 124508 | 2.5 | 17 |
| 144 | Metalorganic Chemical Vapor Deposition Regrowth of InGa _N and Ga _N on N-polar Pillar and Stripe Nanostructures. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L230-L233 | 1.4 | 17 |
| 143 | Mapping piezoelectric-field distribution in gallium nitride with scanning second-harmonic generation microscopy. <i>Scanning</i> , 2001 , 23, 182-92 | 1.6 | 17 |
| 142 | Metal-organic chemical vapor deposition of high quality, high indium composition N-polar InGa _N layers for tunnel devices. <i>Journal of Applied Physics</i> , 2017 , 121, 185707 | 2.5 | 16 |
| 141 | Improved Dynamic RON of Ga _N Vertical Trench MOSFETs (OG-FETs) Using TMAH Wet Etch. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1030-1033 | 4.4 | 16 |
| 140 | Observation of positive thermal power coefficient in InGa _N /Ga _N quantum well solar cells. <i>Applied Physics Letters</i> , 2011 , 99, 071104 | 3.4 | 16 |
| 139 | Investigation of nitrogen polar p-type doped Ga _N /Al _x Ga _(1-x) N superlattices for applications in wide-bandgap p-type field effect transistors. <i>Applied Physics Letters</i> , 2019 , 115, 172105 | 3.4 | 15 |
| 138 | N-Polar Ga _N /Al _N MIS-HEMT With f_{MAX} of 204 GHz for Ka-Band Applications. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1683-1685 | 4.4 | 15 |

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| 137 | f_{T} and f_{MAX} of 47 and 81 GHz , Respectively, on N-Polar GaN/AlN MIS-HEMT. <i>IEEE Electron Device Letters</i> , 2009 , 30, 599-601 | 4.4 | 15 |
| 136 | Characterizing the nanoacoustic superlattice in a phonon cavity using a piezoelectric single quantum well. <i>Applied Physics Letters</i> , 2006 , 89, 143103 | 3.4 | 15 |
| 135 | AlGaN/AlN distributed bragg reflectors for deep ultraviolet wavelengths. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 1915-1919 | 1.6 | 15 |
| 134 | Stimulated emission and ultrafast carrier relaxation in InGaN multiple quantum wells. <i>Applied Physics Letters</i> , 2003 , 82, 1416-1418 | 3.4 | 15 |
| 133 | Local wing tilt analysis of laterally overgrown GaN by x-ray rocking curve imaging. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, A50-A54 | 3 | 15 |
| 132 | Compliant Micron-Sized Patterned InGaN Pseudo-Substrates Utilizing Porous GaN. <i>Materials</i> , 2020 , 13, | 3.5 | 15 |
| 131 | Self-Aligned Technology for N-Polar GaN/Al(Ga)N MIS-HEMTs. <i>IEEE Electron Device Letters</i> , 2011 , 32, 33-35 | 4.4 | 14 |
| 130 | Lateral confinement of electrons in vicinal N-polar AlGaIn/GaN heterostructure. <i>Applied Physics Letters</i> , 2010 , 97, 162106 | 3.4 | 14 |
| 129 | Large near resonance third order nonlinearity in GaN. <i>Optical and Quantum Electronics</i> , 2000 , 32, 619-640. | 4 | 14 |
| 128 | Role of GaN cap layer for reference electrode free AlGaIn/GaN-based pH sensors. <i>Sensors and Actuators B: Chemical</i> , 2019 , 287, 250-257 | 8.5 | 13 |
| 127 | An improved methodology for extracting interface state density at Si3N4/GaN. <i>Applied Physics Letters</i> , 2020 , 116, 022104 | 3.4 | 13 |
| 126 | Analysis of MOCVD SiNx Passivated N-Polar GaN MIS-HEMTs on Sapphire With High $f_{\text{max}} \cdot V_{\text{DS,Q}}$. <i>IEEE Electron Device Letters</i> , 2018 , 39, 409-412 | 4.4 | 13 |
| 125 | Metal-organic chemical vapor deposition of N-polar InN quantum dots and thin films on vicinal GaN. <i>Journal of Applied Physics</i> , 2018 , 123, 055702 | 2.5 | 13 |
| 124 | GaN-based embedded 2D photonic crystal LEDs: Numerical optimization and device characterization. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, S675-S679 | | 13 |
| 123 | Electron mobility in N-polar GaN/AlGaIn/GaN heterostructures. <i>Applied Physics Letters</i> , 2008 , 93, 042104. | 4.4 | 13 |
| 122 | Simultaneous four-photon luminescence, third-harmonic generation, and second-harmonic generation microscopy of GaN. <i>Optics Letters</i> , 2005 , 30, 2463-5 | 3 | 13 |
| 121 | Ultrashort hole capture time in Mg-doped GaN thin films. <i>Applied Physics Letters</i> , 2002 , 81, 3975-3977 | 3.4 | 13 |
| 120 | Electrical and structural properties of AlGaIn/AlGaIn superlattice structures grown by metal-organic chemical vapor deposition. <i>Optical Materials</i> , 2003 , 23, 187-195 | 3.3 | 13 |

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| 119 | Observation of huge nonlinear absorption enhancement near exciton resonance in GaN. <i>Applied Physics Letters</i> , 2003 , 83, 3087-3089 | 3.4 | 13 |
| 118 | Studies of carrier dynamics in unintentionally doped gallium nitride bandtail states. <i>Applied Physics Letters</i> , 2001 , 78, 2724-2726 | 3.4 | 13 |
| 117 | AlGaN/GaN Superlattice-Based p-Type Field-Effect Transistor with Tetramethylammonium Hydroxide Treatment. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900692 | 1.6 | 13 |
| 116 | 6.2 W/Mm and Record 33.8% PAE at 94 GHz From N-Polar GaN Deep Recess MIS-HEMTs With ALD Ru Gates. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 31, 748-751 | 2.6 | 13 |
| 115 | Controlled low Si doping and high breakdown voltages in GaN on sapphire grown by MOCVD. <i>Semiconductor Science and Technology</i> , 2016 , 31, 125018 | 1.8 | 13 |
| 114 | Compositionally graded InGaN layers grown on vicinal N-face GaN substrates by plasma-assisted molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2017 , 465, 55-59 | 1.6 | 12 |
| 113 | Infrared luminescence from N-polar InN quantum dots and thin films grown by metal organic chemical vapor deposition. <i>Applied Physics Letters</i> , 2019 , 114, 241103 | 3.4 | 12 |
| 112 | First demonstration of improvement in hole conductivity inc-plane III-Nitrides through application of uniaxial strain. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 030908 | 1.4 | 12 |
| 111 | A Demonstration of Nitrogen Polar Gallium Nitride Current Aperture Vertical Electron Transistor. <i>IEEE Electron Device Letters</i> , 2019 , 40, 885-888 | 4.4 | 12 |
| 110 | Interfacial N Vacancies in GaN/(Al,Ga)N/GaN Heterostructures. <i>Physical Review Applied</i> , 2020 , 13, | 4.3 | 12 |
| 109 | Observation of Hot Electron and Impact Ionization in N-Polar GaN MIS-HEMTs. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1007-1010 | 4.4 | 12 |
| 108 | Low Ohmic Contact Resistancem-Plane AlGaN/GaN Heterojunction Field-Effect Transistors with Enhancement-Mode Operations. <i>Applied Physics Express</i> , 2010 , 3, 101002 | 2.4 | 12 |
| 107 | Correlation Between DCRF Dispersion and Gate Leakage in Deeply Recessed GaN/AlGaN/GaN HEMTs. <i>IEEE Electron Device Letters</i> , 2008 , 29, 303-305 | 4.4 | 12 |
| 106 | Crystal quality and growth evolution of aluminum nitride on silicon carbide. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 1708-1711 | 1.6 | 12 |
| 105 | N-Polar GaN-on-Sapphire Deep Recess HEMTs With High W-Band Power Density. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1633-1636 | 4.4 | 12 |
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