

# Stacia Keller

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Demonstration of device-quality 60% relaxed In <sub>0.2</sub> Ga <sub>0.8</sub> N on porous GaN pseudo-substrates grown by PAMBE. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 015701	2.5	3
243	Acceptor traps as the source of holes in p-type N-polar GaN/(AlN/AlGaN) superlattices. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 132104	3.4	2
242	Inverted N-polar blue and blue-green light emitting diodes with high power grown by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 101104	3.4	0
241	Demonstration of Acceptor-Like Traps at Positive Polarization Interfaces in Ga-Polar P-type (AlGa <sub>N</sub> /AlN)/GaN Superlattices. <i>Crystals</i> , <b>2022</b> , 12, 784	2.3	1
240	InGa <sub>N</sub> -Based microLED Devices Approaching 1% EQE with Red 609 nm Electroluminescence on Semi-Relaxed Substrates. <i>Crystals</i> , <b>2021</b> , 11, 1364	2.3	5
239	Properties of AlN/GaN Heterostructures Grown at Low Growth Temperatures with Ammonia and Dimethylhydrazine. <i>Crystals</i> , <b>2021</b> , 11, 1412	2.3	2
238	Demonstration of ultra-small (0.2%) for mini-displays. <i>Applied Physics Express</i> , <b>2021</b> , 14, 011004	2.4	35
237	MOCVD growth of thick V-pit-free InGa <sub>N</sub> films on semi-relaxed InGa <sub>N</sub> substrates. <i>Semiconductor Science and Technology</i> , <b>2021</b> , 36, 015011	1.8	4
236	2DEGs Formed in AlN/GaN HEMT structures with AlN grown at low temperature. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 222103	3.4	3
235	Metal Organic Vapor Phase Epitaxy of Thick N-Polar InGa <sub>N</sub> Films. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 1182.6	2.6	3
234	Growth by MOCVD and photoluminescence of semipolar (202□1□) InN quantum dashes. <i>Journal of Crystal Growth</i> , <b>2021</b> , 563, 126093	1.6	2
233	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> , <b>2021</b> , 31, 748-751	2.6	13
232	Investigation and optimization of N-polar GaN porosification for regrowth of smooth hillocks-free GaN films. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 042105	3.4	1
231	pH-Dependent surface charge at the interfaces between aluminum gallium nitride (AlGa <sub>N</sub> ) and aqueous solution revealed by surfactant adsorption. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 583, 331-339	9.3	1
230	Metalorganic chemical vapor deposition of InN quantum dots and nanostructures. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 150	16.7	0
229	Evaluation of linearity at 30 GHz for N-polar GaN deep recess transistors with 10.3 W/mm of output power and 47.4% PAE. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 072105	3.4	3
228	Realization of III-Nitride c-Plane microLEDs Emitting from 470 to 645 nm on Semi-Relaxed Substrates Enabled by V-Defect-Free Base Layers. <i>Crystals</i> , <b>2021</b> , 11, 1168	2.3	3

227	Effects of surface oxidation on the pH-dependent surface charge of oxidized aluminum gallium nitride. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 603, 604-614	9.3	1
226	Quantitative investigation of indium distribution in InN wetting layers and dots grown by metalorganic chemical vapor deposition. <i>Applied Physics Express</i> , <b>2020</b> , 13, 065005	2.4	3
225	Improved operation stability of in situ AlSiO dielectric grown on (0001) N-polar GaN by MOCVD. <i>Applied Physics Express</i> , <b>2020</b> , 13, 061010	2.4	5
224	Ultra-high silicon doped N-polar GaN contact layers grown by metal-organic chemical vapor deposition. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 095002	1.8	7
223	Flow modulation metalorganic vapor phase epitaxy of GaN at temperatures below 600 °C. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 095014	1.8	5
222	Growth of strain-relaxed InGaN on micrometer-sized patterned compliant GaN pseudo-substrates. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 111101	3.4	23
221	Bias-Dependent Electron Velocity Extracted From N-Polar GaN Deep Recess HEMTs. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 1542-1546	2.9	6
220	High Linearity and High Gain Performance of N-Polar GaN MIS-HEMT at 30 GHz. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 681-684	4.4	17
219	Observation of ID-VD Kink in N-Polar GaN MIS-HEMTs at Cryogenic Temperatures. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 345-348	4.4	5
218	W-Band Power Performance of SiN-Passivated N-Polar GaN Deep Recess HEMTs. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 349-352	4.4	42
217	An improved methodology for extracting interface state density at Si <sub>3</sub> N <sub>4</sub> /GaN. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 022104	3.4	13
216	First experimental demonstration and analysis of electrical transport characteristics of a GaN-based HEMT with a relaxed InGaN channel. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 075007	1.8	8
215	Interfacial N Vacancies in GaN/(Al,Ga)N/GaN Heterostructures. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	12
214	High-electron-mobility transistors with metal-organic chemical vapor deposition-regrown contacts for high voltage applications. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 124004	1.8	2
213	Compliant Micron-Sized Patterned InGaN Pseudo-Substrates Utilizing Porous GaN. <i>Materials</i> , <b>2020</b> , 13,	3.5	15
212	Characterization of AlSiO dielectrics with varying silicon composition for N-polar GaN-based devices. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 095027	1.8	7
211	Demonstration of a GaN/AlGaN Superlattice-Based p-Channel FinFET With High ON-Current. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 220-223	4.4	27
210	Optimization of Digital Growth of Thick N-Polar InGaN by MOCVD. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 3450-3454	1.9	2

209	Growth of high-quality N-polar GaN on bulk GaN by plasma-assisted molecular beam epitaxy. <i>Solid State Communications</i> , <b>2020</b> , 305, 113763	1.6	5
208	AlGaN/GaN Superlattice-Based p-Type Field-Effect Transistor with Tetramethylammonium Hydroxide Treatment. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2020</b> , 217, 1900692	1.6	13
207	A Novel Concept using Derivative Superposition at the Device-Level to Reduce Linearity Sensitivity to Bias in N-polar GaN MISHEMT <b>2020</b> ,		2
206	. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 1468-1471	4.4	3
205	Proposed existence of acceptor-like traps at positive polarization interfaces in p-type III-nitride semiconductors. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 042104	3.4	8
204	Color-tunable . <i>Applied Physics Letters</i> , <b>2020</b> , 117, 061105	3.4	19
203	Method of growing elastically relaxed crack-free AlGaIn on GaN as substrates for ultra-wide bandgap devices using porous GaN. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 062102	3.4	8
202	N-Polar GaN-on-Sapphire Deep Recess HEMTs With High W-Band Power Density. <i>IEEE Electron Device Letters</i> , <b>2020</b> , 41, 1633-1636	4.4	12
201	A systematic and quantitative analysis of the bulk and interfacial properties of the AlSiO dielectric on N-polar GaN using capacitance-voltage methods. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 074101	2.5	3
200	MOCVD Growth and Characterization of InN Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 1900508	1.3	5
199	Fabrication of relaxed InGaIn pseudo-substrates composed of micron-sized pattern arrays with high fill factors using porous GaN. <i>Semiconductor Science and Technology</i> , <b>2019</b> , 34, 115020	1.8	20
198	Characterization of InGaIn quantum dots grown by metalorganic chemical vapor deposition. <i>Semiconductor Science and Technology</i> , <b>2019</b> , 34, 125002	1.8	4
197	Infrared luminescence from N-polar InN quantum dots and thin films grown by metal organic chemical vapor deposition. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 241103	3.4	12
196	First demonstration of improvement in hole conductivity in-plane III-Nitrides through application of uniaxial strain. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 030908	1.4	12
195	A Demonstration of Nitrogen Polar Gallium Nitride Current Aperture Vertical Electron Transistor. <i>IEEE Electron Device Letters</i> , <b>2019</b> , 40, 885-888	4.4	12
194	Properties of N-polar InGaIn/GaN quantum wells grown with triethyl gallium and triethyl indium as precursors. <i>Semiconductor Science and Technology</i> , <b>2019</b> , 34, 075017	1.8	8
193	Electron transport in N-polar GaN-based heterostructures. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 162102	3.4	8
192	Role of GaN cap layer for reference electrode free AlGaIn/GaN-based pH sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 287, 250-257	8.5	13

191	Net negative fixed interface charge for Si <sub>3</sub> N <sub>4</sub> and SiO <sub>2</sub> grown in situ on 000-1 N-polar GaN. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 032103	3-4	11
190	Investigation of nitrogen polar p-type doped GaN/Al <sub>x</sub> Ga(1-x)N superlattices for applications in wide-bandgap p-type field effect transistors. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 172105	3-4	15
189	Electrical properties and interface abruptness of AlSiO gate dielectric grown on 000 1 N-polar and (0001) Ga-polar GaN. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 172104	3-4	7
188	pH-dependent surface properties of the gallium nitride - Solution interface mapped by surfactant adsorption. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 556, 680-688	9-3	3
187	Flatband voltage stability and time to failure of MOCVD-grown SiO <sub>2</sub> and Si <sub>3</sub> N <sub>4</sub> dielectrics on N-polar GaN. <i>Applied Physics Express</i> , <b>2019</b> , 12, 121001	2-4	4
186	First demonstration of RF N-polar GaN MIS-HEMTs grown on bulk GaN using PAMBE. <i>Semiconductor Science and Technology</i> , <b>2019</b> , 34, 045009	1-8	12
185	Virtual-Source Modeling of N-polar GaN MISHEMTS <b>2019</b> ,		1
184	Enhanced mobility in vertically scaled N-polar high-electron-mobility transistors using GaN/InGaN composite channels. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 073501	3-4	5
183	Analysis of MOCVD Si <sub>x</sub> N <sub>y</sub> Passivated N-Polar GaN MIS-HEMTs on Sapphire With High $f_{max} \cdot V_{DS,Q}$ . <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 409-412	4-4	13
182	Demonstration of GaN Current Aperture Vertical Electron Transistors With Aperture Region Formed by Ion Implantation. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 483-487	2-9	27
181	Metal-organic chemical vapor deposition of N-polar InN quantum dots and thin films on vicinal GaN. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 055702	2-5	13
180	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> , <b>2018</b> , 65, 45-50	2-9	98
179	Corrections to In Situ Oxide, GaN Interlayer-Based Vertical Trench MOSFET (OG-FET) on Bulk GaN Substrates [Mar 17 353-355]. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 316-316	4-4	3
178	880 V/ $2.7 \cdot 10^6$ cm <sup>2</sup> MIS Gate Trench CAVET on Bulk GaN Substrates. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 863-865	4-4	54
177	Large-Area In-Situ Oxide, GaN Interlayer-Based Vertical Trench MOSFET (OG-FET). <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 711-714	4-4	33
176	Investigation of Mg Doping for low resistance N-polar p-GaN films grown at reduced temperatures by MOCVD. <i>Semiconductor Science and Technology</i> , <b>2018</b> , 33, 095014	1-8	9
175	Observation of Hot Electron and Impact Ionization in N-Polar GaN MIS-HEMTs. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 1007-1010	4-4	12
174	Improved Dynamic RON of GaN Vertical Trench MOSFETs (OG-FETs) Using TMAH Wet Etch. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 1030-1033	4-4	16

173	Growth of N-polar GaN by ammonia molecular beam epitaxy. <i>Journal of Crystal Growth</i> , <b>2018</b> , 481, 65-70	1.6	8
172	N-Polar GaN HEMTs Exhibiting Record Breakdown Voltage Over 2000 V and Low Dynamic On-Resistance. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 1014-1017	4.4	50
171	N-Polar GaN Cap MISHEMT With Record Power Density Exceeding 6.5 W/mm at 94 GHz. <i>IEEE Electron Device Letters</i> , <b>2017</b> , 38, 359-362	4.4	56
170	Suppression of Mg propagation into subsequent layers grown by MOCVD. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 025106	2.5	20
169	Exploring metalorganic chemical vapor deposition of Si-alloyed Al <sub>2</sub> O <sub>3</sub> dielectrics using disilane. <i>Journal of Crystal Growth</i> , <b>2017</b> , 464, 54-58	1.6	6
168	Compositionally graded InGaN layers grown on vicinal N-face GaN substrates by plasma-assisted molecular beam epitaxy. <i>Journal of Crystal Growth</i> , <b>2017</b> , 465, 55-59	1.6	12
167	In Situ Oxide, GaN Interlayer-Based Vertical Trench MOSFET (OG-FET) on Bulk GaN substrates. <i>IEEE Electron Device Letters</i> , <b>2017</b> , 38, 353-355	4.4	99
166	Indium segregation in N-polar InGaN quantum wells evidenced by energy dispersive X-ray spectroscopy and atom probe tomography. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 143101	3.4	29
165	Metal-organic chemical vapor deposition of high quality, high indium composition N-polar InGaN layers for tunnel devices. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 185707	2.5	16
164	Vertical transport in isotype InAlN/GaN dipole induced diodes grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 205702	2.5	2
163	Dispersion Free 450-V p GaN-Gated CAVETs With Mg-ion Implanted Blocking Layer. <i>IEEE Electron Device Letters</i> , <b>2017</b> , 38, 933-936	4.4	35
162	Normally OFF Trench CAVET With Active Mg-Doped GaN as Current Blocking Layer. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 805-808	2.9	58
161	Abrupt GaN/p-GaN:Mg junctions grown via metalorganic chemical vapor deposition. <i>Applied Physics Express</i> , <b>2017</b> , 10, 111002	2.4	5
160	PB junction diodes with polarization induced p-type graded In <sub>x</sub> Ga <sub>1-x</sub> N layer. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 105013	1.8	7
159	Impact of Trench Dimensions on the Device Performance of GaN Vertical Trench MOSFETs. <i>IEEE Electron Device Letters</i> , <b>2017</b> , 38, 1559-1562	4.4	6
158	Characterization of N-polar AlN in GaN/AlN/(Al,Ga)N heterostructures grown by metal-organic chemical vapor deposition. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 115004	1.8	5
157	Atom Probe Tomography Quantification of Alloy Fluctuations in (Al,In,Ga)N. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 716-717	0.5	1
156	Maskless regrowth of GaN for trenched devices by MOCVD. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 233507	3.4	3

155	Impact of oxygen precursor flow on the forward bias behavior of MOCVD-Al <sub>2</sub> O <sub>3</sub> dielectrics grown on GaN. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 174101	2.5	3
154	Growth of high purity N-polar (In,Ga)N films. <i>Journal of Crystal Growth</i> , <b>2017</b> , 464, 127-131	1.6	21
153	. <i>IEEE Electron Device Letters</i> , <b>2017</b> , 38, 1575-1578	4.4	25
152	High Spatial Resolution Energy Dispersive X-ray Spectroscopy and Atom Probe Tomography study of Indium segregation in N-polar InGaN Quantum Wells. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1448-1449	0.5	1
151	Digital growth of thick N-polar InGaN films on relaxed InGaN pseudosubstrates. <i>Applied Physics Express</i> , <b>2017</b> , 10, 111001	2.4	11
150	Demonstrating >1.4 kV OG-FET performance with a novel double field-plated geometry and the successful scaling of large-area devices <b>2017</b> ,		39
149	Comparing electrical performance of GaN trench-gate MOSFETs with a-plane $\{11\bar{2}0\}$ and m-plane $\{1\bar{1}00\}$ sidewall channels. <i>Applied Physics Express</i> , <b>2016</b> , 9, 121001	2.4	38
148	High frequency N-polar GaN planar MIS-HEMTs on sapphire with high breakdown and low dispersion <b>2016</b> ,		10
147	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> , <b>2016</b> , 37, 77-80	4.4	27
146	Plasma-assisted molecular beam epitaxy growth diagram of InGaN on (0001)GaN for the optimized synthesis of InGaN compositional grades. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 626-629	1.3	11
145	Plasma-assisted molecular beam epitaxy growth diagram of InGaN on (0001)GaN for the optimized synthesis of InGaN compositional grades (Phys. Status Solidi B 4/2016). <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 792-792	1.3	
144	Performance projection of III-nitride heterojunction nanowire tunneling field-effect transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 905-908	1.6	10
143	Controlled low Si doping and high breakdown voltages in GaN on sapphire grown by MOCVD. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 125018	1.8	13
142	Optimization of a chlorine-based deep vertical etch of GaN demonstrating low damage and low roughness. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2016</b> , 34, 031303	2.9	11
141	Polarity in GaN and ZnO: Theory, measurement, growth, and devices. <i>Applied Physics Reviews</i> , <b>2016</b> , 3, 041303	17.3	85
140	Model to explain the behavior of 2DEG mobility with respect to charge density in N-polar and Ga-polar AlGaIn-GaN heterostructures. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 115302	2.5	26
139	N-Polar Deep Recess MISHEMTs With Record 2.9 W/mm at 94 GHz. <i>IEEE Electron Device Letters</i> , <b>2016</b> , 1-1	4.4	18
138	OG-FET: An In-Situ $\{O\}$ xide, $\{G\}$ aN Interlayer-Based Vertical Trench MOSFET. <i>IEEE Electron Device Letters</i> , <b>2016</b> , 37, 1601-1604	4.4	49

137	Design Space of III-N Hot Electron Transistors Using AlGa <sub>N</sub> and InGa <sub>N</sub> Polarization-Dipole Barriers. <i>IEEE Electron Device Letters</i> , <b>2015</b> , 36, 23-25	4.4	4
136	Unintentional gallium incorporation in AlN and its impact on the electrical properties of GaN/AlN and GaN/AlN/AlGa <sub>N</sub> heterostructures. <i>Semiconductor Science and Technology</i> , <b>2015</b> , 30, 055015	1.8	11
135	Method to Predict and Optimize Charge Sensitivity of Ungated AlGa <sub>N</sub> /GaN HEMT-Based Ion Sensor Without Use of Reference Electrode. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 5320-5326	4	9
134	Relaxed c-plane InGa <sub>N</sub> layers for the growth of strain-reduced InGa <sub>N</sub> quantum wells. <i>Semiconductor Science and Technology</i> , <b>2015</b> , 30, 105015	1.8	34
133	InGa <sub>N</sub> lattice constant engineering via growth on (In,Ga)N/GaN nanostripe arrays. <i>Semiconductor Science and Technology</i> , <b>2015</b> , 30, 105020	1.8	10
132	Measuring the signature of bias and temperature-dependent barrier heights in III-N materials using a hot electron transistor. <i>Semiconductor Science and Technology</i> , <b>2015</b> , 30, 105003	1.8	2
131	Barrier height fluctuations in InGa <sub>N</sub> polarization dipole diodes. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 173503	3.4	4
130	Design, fabrication, and performance analysis of GaN vertical electron transistors with a buried p/n junction. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 183502	3.4	68
129	Common emitter operation of III-N HETs using AlGa <sub>N</sub> and InGa <sub>N</sub> polarization-dipole induced barriers <b>2014</b> ,		1
128	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> , <b>2014</b> , 104, 072107	3.4	18
127	Improved properties of high-Al-composition AlGa <sub>N</sub> /GaN high electron mobility transistor structures with thin GaN cap layers. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 095504	1.4	7
126	Design of polarization-dipole-induced isotype heterojunction diodes for use in III-N hot electron transistors. <i>Applied Physics Express</i> , <b>2014</b> , 7, 014102	2.4	10
125	Low ON-resistance and high current GaN Vertical Electron Transistors with buried p-GaN layers <b>2014</b> ,		4
124	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> , <b>2014</b> , 104, 092107	3.4	18
123	Measurement of the hot electron mean free path and the momentum relaxation rate in GaN. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 263506	3.4	23
122	Recent progress in metal-organic chemical vapor deposition of $\left(000\bar{1}\right)$ N-polar group-III nitrides. <i>Semiconductor Science and Technology</i> , <b>2014</b> , 29, 113001	1.8	129
121	Dielectric stress tests and capacitance-voltage analysis to evaluate the effect of post deposition annealing on Al <sub>2</sub> O <sub>3</sub> films deposited on GaN. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 222905	3.4	10
120	Extraction of net interfacial polarization charge from Al <sub>0.54</sub> In <sub>0.12</sub> Ga <sub>0.34</sub> N/GaN high electron mobility transistors grown by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 183704	2.5	4



119	A donor-like trap at the InGaN/GaN interface with net negative polarization and its possible consequence on internal quantum efficiency. <i>Semiconductor Science and Technology</i> , <b>2013</b> , 28, 105021	1.8	9
118	Capacitance-voltage characterization of interfaces between positive valence band offset dielectrics and wide bandgap semiconductors. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 083718	2.5	34
117	Atom probe analysis of AlN interlayers in AlGaN/AlN/GaN heterostructures. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 111603	3.4	55
116	N-polar GaN epitaxy and high electron mobility transistors. <i>Semiconductor Science and Technology</i> , <b>2013</b> , 28, 074009	1.8	124
115	Development of gallium-nitride-based light-emitting diodes (LEDs) and laser diodes for energy-efficient lighting and displays. <i>Acta Materialia</i> , <b>2013</b> , 61, 945-951	8.4	283
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