Huili Grace Xing

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/3692885/huili-grace-xing-publications-by-year.pdf

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

299	12,283	57	103
papers	citations	h-index	g-index
336 ext. papers	14,253 ext. citations	4.3 avg, IF	6.39 L-index

#	Paper	IF	Citations
299	Breakdown Mechanisms in EGa2O3 Trench-MOS Schottky-Barrier Diodes. <i>IEEE Transactions on Electron Devices</i> , 2022 , 69, 75-81	2.9	2
298	Quantitative scanning microwave microscopy of 2D electron and hole gases in AlN/GaN heterostructures. <i>Applied Physics Letters</i> , 2022 , 120, 012103	3.4	0
297	A unified thermionic and thermionic-field emission (TEIIFE) model for ideal Schottky reverse-bias leakage current. <i>Journal of Applied Physics</i> , 2022 , 131, 015702	2.5	5
296	High thermal conductivity and ultrahigh thermal boundary conductance of homoepitaxial AlN thin films. <i>APL Materials</i> , 2022 , 10, 011115	5.7	1
295	Nucleation, growth, and stability of WSe2 thin films deposited on HOPG examined using in situ, real-time synchrotron x-ray radiation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022 , 40, 012201	2.9	
294	Infrared dielectric functions and Brillouin zone center phonons of £ a2O3 compared to £ Al2O3. <i>Physical Review Materials</i> , 2022 , 6,	3.2	5
293	Distributed polarization-doped GaN pl diodes with near-unity ideality factor and avalanche breakdown voltage of 1.25 kV. <i>Applied Physics Letters</i> , 2022 , 120, 122111	3.4	O
292	Infrared-active phonon modes and static dielectric constants in E(AlxGa111)2O3 (0.18 /k /10.54) alloys. <i>Applied Physics Letters</i> , 2022 , 120, 112202	3.4	1
291	Optically pumped deep-UV multimode lasing in AlGaN double heterostructure grown by molecular beam homoepitaxy. <i>AIP Advances</i> , 2022 , 12, 035023	1.5	2
2 90	Epitaxial ScxAl1NN on GaN exhibits attractive high-K dielectric properties. <i>Applied Physics Letters</i> , 2022 , 120, 152901	3.4	5
289	Structural and electronic properties of NbN/GaN junctions grown by molecular beam epitaxy. <i>APL Materials</i> , 2022 , 10, 051103	5.7	O
288	Polarization-induced 2D hole gases in pseudomorphic undoped GaN/AlN heterostructures on single-crystal AlN substrates. <i>Applied Physics Letters</i> , 2021 , 119, 162104	3.4	6
287	Adsorption-controlled growth of Ga2O3 by suboxide molecular-beam epitaxy. <i>APL Materials</i> , 2021 , 9, 031101	5.7	11
286	MBE growth and donor doping of coherent ultrawide bandgap AlGaN alloy layers on single-crystal AlN substrates. <i>Applied Physics Letters</i> , 2021 , 118, 092101	3.4	5
285	Enhanced efficiency in bottom tunnel junction InGaN blue LEDs 2021,		3
284	Next generation electronics on the ultrawide-bandgap aluminum nitride platform. <i>Semiconductor Science and Technology</i> , 2021 , 36, 044001	1.8	17
283	Ultrafast dynamics of gallium vacancy charge states in G a2O3. <i>Physical Review Research</i> , 2021 , 3,	3.9	4

(2021-2021)

282	Ephase inclusions as common structural defects in alloyed E(AlxGa1☑)2O3 and doped EGa2O3 films. <i>APL Materials</i> , 2021 , 9, 051119	5.7	7
281	ON-Resistance of Ga2O3 Trench-MOS Schottky Barrier Diodes: Role of Sidewall Interface Trapping. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 2420-2426	2.9	5
280	Temperature-dependent Lowering of Coercive Field in 300 nm Sputtered Ferroelectric Alo.70Sc0.30N 2021 ,		4
279	High-conductivity polarization-induced 2D hole gases in undoped GaN/AlN heterojunctions enabled by impurity blocking layers. <i>Journal of Applied Physics</i> , 2021 , 130, 025703	2.5	7
278	First RF Power Operation of AlN/GaN/AlN HEMTs With >3 A/mm and 3 W/mm at 10 GHz. <i>IEEE Journal of the Electron Devices Society</i> , 2021 , 9, 121-124	2.3	16
277	Crystal orientation dictated epitaxy of ultrawide-bandgap 5.4- to 8.6-eV ḤAlGa)O on m-plane sapphire. <i>Science Advances</i> , 2021 , 7,	14.3	35
276	Advanced concepts in Ga2O3 power and RF devices. Semiconductors and Semimetals, 2021, 107, 23-47	0.6	2
275	Epitaxial Ferrimagnetic Mn4N Thin Films on GaN by Molecular Beam Epitaxy. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	0
274	An all-epitaxial nitride heterostructure with concurrent quantum Hall effect and superconductivity. <i>Science Advances</i> , 2021 , 7,	14.3	4
273	Electric Fields and Surface Fermi Level in Undoped GaN/AlN Two-Dimensional Hole Gas Heterostructures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2000573	2.5	2
272	Anisotropic dielectric functions, band-to-band transitions, and critical points in £Ga2O3. <i>Applied Physics Letters</i> , 2021 , 118, 062103	3.4	12
271	Unexplored MBE growth mode reveals new properties of superconducting NbN. <i>Physical Review Materials</i> , 2021 , 5,	3.2	5
270	Molecular beam epitaxy of polar III-nitride resonant tunneling diodes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 023409	2.9	1
269	Thermal stability of epitaxial EGa2O3 and (Al,Ga)2O3 layers on m-plane sapphire. <i>Applied Physics Letters</i> , 2021 , 119, 062102	3.4	8
268	High-frequency and below bandgap anisotropic dielectric constants in 代AlxGa1刷2O3 (0個1). <i>Applied Physics Letters</i> , 2021 , 119, 092103	3.4	9
267	Dislocation and indium droplet related emission inhomogeneities in InGaN LEDs. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 495106	3	1
266	Thermal design of multi-fin Ga2O3 vertical transistors. <i>Applied Physics Letters</i> , 2021 , 119, 103502	3.4	6
265	Strong effect of scandium source purity on chemical and electronic properties of epitaxial ScxAl1N/GaN heterostructures. <i>APL Materials</i> , 2021 , 9, 091106	5.7	3

264	Momentum-resolved electronic structure and band offsets in an epitaxial NbN/GaN superconductor/semiconductor heterojunction <i>Science Advances</i> , 2021 , 7, eabi5833	14.3	3
263	Molecular beam homoepitaxy on bulk AlN enabled by aluminum-assisted surface cleaning. <i>Applied Physics Letters</i> , 2020 , 116, 172106	3.4	17
262	Near-ideal reverse leakage current and practical maximum electric field in EGa2O3 Schottky barrier diodes. <i>Applied Physics Letters</i> , 2020 , 116, 192101	3.4	42
261	SpinBrbit torque field-effect transistor (SOTFET): Proposal for a magnetoelectric memory. <i>Applied Physics Letters</i> , 2020 , 116, 242405	3.4	4
260	. IEEE Transactions on Electron Devices, 2020 , 67, 3978-3982	2.9	1
259	Fighting Broken Symmetry with Doping: Toward Polar Resonant Tunneling Diodes with Symmetric Characteristics. <i>Physical Review Applied</i> , 2020 , 13,	4.3	8
258	GaN HEMTs on Si With Regrown Contacts and Cutoff/Maximum Oscillation Frequencies of 250/204 GHz. <i>IEEE Electron Device Letters</i> , 2020 , 41, 689-692	4.4	29
257	All-Epitaxial Bulk Acoustic Wave Resonators. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900786	1.6	8
256	Multiferroic LuFeO3 on GaN by molecular-beam epitaxy. Applied Physics Letters, 2020, 116, 102901	3.4	5
255	Surface control and MBE growth diagram for homoepitaxy on single-crystal AlN substrates. <i>Applied Physics Letters</i> , 2020 , 116, 262102	3.4	17
254	Magnetic properties of MBE grown Mn4N on MgO, SiC, GaN and Al2O3 substrates. <i>AIP Advances</i> , 2020 , 10, 015238	1.5	3
253	Gallium nitride tunneling field-effect transistors exploiting polarization fields. <i>Applied Physics Letters</i> , 2020 , 116, 073502	3.4	2
252	Fully transparent field-effect transistor with high drain current and on-off ratio. <i>APL Materials</i> , 2020 , 8, 011110	5.7	16
251	Layered two-dimensional selenides and tellurides grown by molecular beam epitaxy 2020 , 235-269		1
250	GaN/AlN p-channel HFETs with Imax >420 mA/mm and ~20 GHz fT / fMAX 2020 ,		6
249	Monolithically p-down nitride laser diodes and LEDs obtained by MBE using buried tunnel junction design 2020 ,		2
248	Enhanced injection efficiency and light output in bottom tunnel-junction light-emitting diodes. <i>Optics Express</i> , 2020 , 28, 4489-4500	3.3	12
247	Distributed-feedback blue laser diode utilizing a tunnel junction grown by plasma-assisted molecular beam epitaxy. <i>Optics Express</i> , 2020 , 28, 35321-35329	3.3	3

(2020-2020)

246	GaN/AlGaN 2DEGs in the quantum regime: Magneto-transport and photoluminescence to 60 tesla. <i>Applied Physics Letters</i> , 2020 , 117, 262105	3.4	1
245	Field-Effect Transistors 5. <i>Springer Series in Materials Science</i> , 2020 , 639-660	0.9	
244	Resonant Tunneling Transport in Polar III-Nitride Heterostructures 2020 , 215-247		1
243	Degradation Mechanisms of GaN-Based Vertical Devices: A Review. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900750	1.6	3
242	Oxygen Incorporation in the Molecular Beam Epitaxy Growth of ScxGa1\(\mathbb{B}\)N and ScxAl1\(\mathbb{N}\)N. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900612	1.3	19
241	Molecular Beam Epitaxy Growth of Large-Area GaN/AlN 2D Hole Gas Heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900567	1.3	9
240	Nitride LEDs and Lasers with Buried Tunnel Junctions. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 015018	2	5
239	Field-Plated Ga2O3 Trench Schottky Barrier Diodes With a BV2/ \$R_{text{on,sp}}\$ of up to 0.95 GW/cm2. <i>IEEE Electron Device Letters</i> , 2020 , 41, 107-110	4.4	97
238	Molecular Beam Epitaxy of Transition Metal Nitrides for Superconducting Device Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900675	1.6	11
237	Epitaxial niobium nitride superconducting nanowire single-photon detectors. <i>Applied Physics Letters</i> , 2020 , 117, 132601	3.4	12
236	N-polar GaN/AlN resonant tunneling diodes. <i>Applied Physics Letters</i> , 2020 , 117, 143501	3.4	5
235	Guiding Principles for Trench Schottky Barrier Diodes Based on Ultrawide Bandgap Semiconductors: A Case Study in Ga®@ <i>lEEE Transactions on Electron Devices</i> , 2020 , 67, 3938-3947	2.9	26
234	Thermionic emission or tunneling? The universal transition electric field for ideal Schottky reverse leakage current: A case study in EGa2O3. <i>Applied Physics Letters</i> , 2020 , 117, 222104	3.4	14
233	Prospects for Wide Bandgap and Ultrawide Bandgap CMOS Devices. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 4010-4020	2.9	38
232	Bottom tunnel junction blue light-emitting field-effect transistors. <i>Applied Physics Letters</i> , 2020 , 117, 031107	3.4	2
231	Very High Parallel-Plane Surface Electric Field of 4.3 MV/cm in Ga2O3 Schottky Barrier Diodes with PtOx Contacts 2020 ,		4
230	Light-emitting diodes with AlN polarization-induced buried tunnel junctions: A second look. <i>Applied Physics Letters</i> , 2020 , 117, 061104	3.4	5
229	Structural and piezoelectric properties of ultra-thin ScxAl1NN films grown on GaN by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2020 , 117, 112101	3.4	15

228	. IEEE Transactions on Electron Devices, 2020 , 67, 3954-3959	2.9	12
227	Intra- and inter-conduction band optical absorption processes in EGa2O3. <i>Applied Physics Letters</i> , 2020 , 117, 072103	3.4	8
226	High-mobility two-dimensional electron gases at AlGaN/GaN heterostructures grown on GaN bulk wafers and GaN template substrates. <i>Applied Physics Express</i> , 2019 , 12, 121003	2.4	6
225	Significantly reduced thermal conductivity in E(Al0.1Ga0.9)2O3/Ga2O3 superlattices. <i>Applied Physics Letters</i> , 2019 , 115, 092105	3.4	17
224	Magnetotransport and superconductivity in InBi films grown on Si(111) by molecular beam epitaxy. Journal of Applied Physics, 2019 , 126, 103901	2.5	1
223	A polarization-induced 2D hole gas in undoped gallium nitride quantum wells. <i>Science</i> , 2019 , 365, 1454-	1 4 57	57
222	Wurtzite phonons and the mobility of a GaN/AlN 2D hole gas. <i>Applied Physics Letters</i> , 2019 , 114, 253501	l 3.4	14
221	Polarization control in nitride quantum well light emitters enabled by bottom tunnel-junctions. Journal of Applied Physics, 2019 , 125, 203104	2.5	14
220	Realization of GaN PolarMOS using selective-area regrowth by MBE and its breakdown mechanisms. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SCCD15	1.4	12
219	The new nitrides: layered, ferroelectric, magnetic, metallic and superconducting nitrides to boost the GaN photonics and electronics eco-system. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SC0801	1.4	43
218	Fiber Reinforced Layered Dielectric Nanocomposite. Advanced Functional Materials, 2019 , 29, 1900056	15.6	36
217	Blue (In,Ga)N light-emitting diodes with buried n +p + tunnel junctions by plasma-assisted molecular beam epitaxy. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 060914	1.4	3
216	Fin-channel orientation dependence of forward conduction in kV-class Ga2O3 trench Schottky barrier diodes. <i>Applied Physics Express</i> , 2019 , 12, 061007	2.4	29
215	Bandgap narrowing and Mott transition in Si-doped Al0.7Ga0.3N. <i>Applied Physics Letters</i> , 2019 , 114, 113	s 5 ₅ 0 ₄ 1	6
214	Electronic structure of SnSe2 films grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2019 , 114, 091602	3.4	8
213	Broken Symmetry Effects due to Polarization on Resonant Tunneling Transport in Double-Barrier Nitride Heterostructures. <i>Physical Review Applied</i> , 2019 , 11,	4.3	17
212	Self-assembly and properties of domain walls in BiFeO3 layers grown via molecular-beam epitaxy. <i>APL Materials</i> , 2019 , 7, 071101	5.7	7
211	1.6 kV Vertical Ga2O3 FinFETs With Source-Connected Field Plates and Normally-off Operation 2019 ,		19

(2018-2019)

210	Band Structure Engineering of Layered WSe One-Step Chemical Functionalization. <i>ACS Nano</i> , 2019 , 13, 7545-7555	16.7	14	
209	High Breakdown Voltage in RF AlN/GaN/AlN Quantum Well HEMTs. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1293-1296	4.4	46	
208	Molecular beam epitaxial growth of scandium nitride on hexagonal SiC, GaN, and AlN. <i>Applied Physics Letters</i> , 2019 , 115, 172101	3.4	14	
207	. IEEE Transactions on Electron Devices, 2019 , 66, 4597-4603	2.9	8	
206	Room-Temperature Graphene-Nanoribbon Tunneling Field-Effect Transistors. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	18	
205	Rotationally aligned hexagonal boron nitride on sapphire by high-temperature molecular beam epitaxy. <i>Physical Review Materials</i> , 2019 , 3,	3.2	15	
204	Materials Relevant to Realizing a Field-Effect Transistor Based on SpinDrbit Torques. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2019 , 5, 158-165	2.4	1	
203	2019,		23	
202	GaN/AlN Schottky-gate p-channel HFETs with InGaN contacts and 100 mA/mm on-current 2019,		17	
201	Thermal conductivity of crystalline AlN and the influence of atomic-scale defects. <i>Journal of Applied Physics</i> , 2019 , 126, 185105	2.5	42	
200	Modeling and Circuit Design of Associative Memories With SpinDrbit Torque FETs. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2019 , 5, 197-205	2.4	4	
199	GaN/NbN epitaxial semiconductor/superconductor heterostructures. <i>Nature</i> , 2018 , 555, 183-189	50.4	83	
198	Steep Sub-Boltzmann Switching in AlGaN/GaN Phase-FETs With ALD VO2. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 945-949	2.9	11	
197	Band offset and electron affinity of MBE-grown SnSe2. <i>Applied Physics Letters</i> , 2018 , 112, 042108	3.4	9	
196	234 nm and 246 nm AlN-Delta-GaN quantum well deep ultraviolet light-emitting diodes. <i>Applied Physics Letters</i> , 2018 , 112, 011101	3.4	42	
195	Development of GaN Vertical Trench-MOSFET With MBE Regrown Channel. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 2558-2564	2.9	32	
194	Enhancement-Mode Ga2O3 Vertical Transistors With Breakdown Voltage >1 kV. <i>IEEE Electron Device Letters</i> , 2018 , 39, 869-872	4.4	166	
193	Room temperature microwave oscillations in GaN/AlN resonant tunneling diodes with peak current densities up to 220 kA/cm2. <i>Applied Physics Letters</i> , 2018 , 112, 103101	3.4	38	

192	MBE growth of few-layer 2H-MoTe2 on 3D substrates. <i>Journal of Crystal Growth</i> , 2018 , 482, 61-69	1.6	30
191	Challenges and Opportunities in Molecular Beam Epitaxy Growth of 2D Crystals 2018 , 443-485		3
190	Activation of buried p-GaN in MOCVD-regrown vertical structures. <i>Applied Physics Letters</i> , 2018 , 113, 062105	3.4	25
189	Demonstration of AlGaN-delta-GaN QW by plasma-assisted molecular beam epitaxy for 260-nm ultraviolet light emitting diodes 2018 ,		1
188	2.44 kV Ga2O3 vertical trench Schottky barrier diodes with very low reverse leakage current 2018 ,		23
187	1230 V EGa2O3 trench Schottky barrier diodes with an ultra-low leakage current of . <i>Applied Physics Letters</i> , 2018 , 113, 202101	3.4	61
186	Measurement of ultrafast dynamics of photoexcited carriers in EGa2O3 by two-color optical pump-probe spectroscopy. <i>Applied Physics Letters</i> , 2018 , 113, 252102	3.4	14
185	Gate-Recessed E-mode p-Channel HFET With High On-Current Based on GaN/AlN 2D Hole Gas. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1848-1851	4.4	46
184	Comparison of unit cell coupling for grating-gate and high electron mobility transistor array THz resonant absorbers. <i>Journal of Applied Physics</i> , 2018 , 124, 093101	2.5	4
183	Breakdown mechanism in 1 kA/cm2 and 960 V E-mode EGa2O3 vertical transistors. <i>Applied Physics Letters</i> , 2018 , 113, 122103	3.4	91
182	1.5 kV Vertical Ga2O3 Trench-MIS Schottky Barrier Diodes 2018 ,		9
181	. IEEE Transactions on Electron Devices, 2017 , 64, 1635-1641	2.9	58
180	Inductively-coupled-plasma reactive ion etching of single-crystal EGa2O3. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 030304	1.4	34
179	Physics and polarization characteristics of 298 nm AlN-delta-GaN quantum well ultraviolet light-emitting diodes. <i>Applied Physics Letters</i> , 2017 , 110, 071103	3.4	37
178	Strained GaN quantum-well FETs on single crystal bulk AlN substrates. <i>Applied Physics Letters</i> , 2017 , 110, 063501	3.4	34
177	MBE-grown 232070 nm deep-UV LEDs using monolayer thin binary GaN/AlN quantum heterostructures. <i>Applied Physics Letters</i> , 2017 , 110, 041108	3.4	85
176	Single-crystal N-polar GaN p-n diodes by plasma-assisted molecular beam epitaxy. <i>Applied Physics Letters</i> , 2017 , 110, 253506	3.4	12
175	Electron mobility in polarization-doped Al0-0.2GaN with a low concentration near 1017 cmB. Applied Physics Letters, 2017, 110, 182102	3.4	8

(2016-2017)

174	Electronic Structure of the Metastable Epitaxial Rock-Salt SnSe {111} Topological Crystalline Insulator. <i>Physical Review X</i> , 2017 , 7,	9.1	8	
173	New Tunneling Features in Polar III-Nitride Resonant Tunneling Diodes. <i>Physical Review X</i> , 2017 , 7,	9.1	34	
172	Terahertz spectroscopy of an electron-hole bilayer system in AlN/GaN/AlN quantum wells. <i>Applied Physics Letters</i> , 2017 , 111, 073102	3.4	8	
171	Deep-UV emission at 219 nm from ultrathin MBE GaN/AlN quantum heterostructures. <i>Applied Physics Letters</i> , 2017 , 111, 091104	3.4	42	
170	GaN vertical nanowire and fin power MISFETs 2017,		5	
169	Selective Chemical Response of Transition Metal Dichalcogenides and Metal Dichalcogenides in Ambient Conditions. <i>ACS Applied Materials & Samp; Interfaces</i> , 2017 , 9, 29255-29264	9.5	17	
168	600 V GaN vertical V-trench MOSFET with MBE regrown channel 2017 ,		10	
167	1.1-kV Vertical GaN p-n Diodes With p-GaN Regrown by Molecular Beam Epitaxy. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1071-1074	4.4	50	
166	Wide-bandgap Gallium Nitride p-channel MISFETs with enhanced performance at high temperature 2017 ,		2	
165	S-shaped negative differential resistance in III-Nitride blue quantum-well laser diodes grown by plasma-assisted MBE 2017 ,		1	
164	Extended Defect Propagation in Highly Tensile-Strained Ge Waveguides. <i>Crystals</i> , 2017 , 7, 157	2.3	2	
163	Demonstration of GaN HyperFETs with ALD VO2 2016 ,		2	
162	Controllable growth of layered selenide and telluride heterostructures and superlattices using molecular beam epitaxy. <i>Journal of Materials Research</i> , 2016 , 31, 900-910	2.5	65	
161	Layered transition metal dichalcogenides: promising near-lattice-matched substrates for GaN growth. <i>Scientific Reports</i> , 2016 , 6, 23708	4.9	58	
160	First demonstration of strained AlN/GaN/AlN quantum well FETs on SiC 2016,		4	
159	Ultralow-Leakage AlGaN/GaN High Electron Mobility Transistors on Si With Non-Alloyed Regrown Ohmic Contacts. <i>IEEE Electron Device Letters</i> , 2016 , 37, 16-19	4.4	26	
158	1.7-kV and 0.55- \$text{m}Omega cdot text {cm}^{2}\$ GaN p-n Diodes on Bulk GaN Substrates With Avalanche Capability. <i>IEEE Electron Device Letters</i> , 2016 , 37, 161-164	4.4	125	
157	Scanning Tunneling Microscopy and Spectroscopy of Air Exposure Effects on Molecular Beam Epitaxy Grown WSe2 Monolayers and Bilayers. <i>ACS Nano</i> , 2016 , 10, 4258-67	16.7	62	

156	Exceptional Terahertz Wave Modulation in Graphene Enhanced by Frequency Selective Surfaces. <i>ACS Photonics</i> , 2016 , 3, 315-323	6.3	45
155	Atomic Layer Deposition of Al2O3 on WSe2 Functionalized by Titanyl Phthalocyanine. <i>ACS Nano</i> , 2016 , 10, 6888-96	16.7	48
154	Room temperature weak ferromagnetism in Sn1MMnxSe2 2D films grown by molecular beam epitaxy. <i>APL Materials</i> , 2016 , 4, 032601	5.7	25
153	Terahertz amplification in RTD-gated HEMTs with a grating-gate wave coupling topology. <i>Applied Physics Letters</i> , 2016 , 109, 063111	3.4	12
152	Sub-230 nm deep-UV emission from GaN quantum disks in AlN grown by a modified Stranski K rastanov mode. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 05FF06	1.4	23
151	Intrinsic electron mobility limits in EGa2O3. Applied Physics Letters, 2016 , 109, 212101	3.4	223
150	Physics-Inspired Neural Networks for Efficient Device Compact Modeling. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2016 , 2, 44-49	2.4	19
149	Two-dimensional heterojunction interlayer tunnel FET (Thin-TFET): From theory to applications 2016 ,		13
148	Comparing buffer leakage in PolarMOSH on SiC and free-standing GaN substrates 2016,		1
147	Self-assembled Ge QDs Formed by High-Temperature Annealing on Al(Ga)As (001). <i>Journal of Electronic Materials</i> , 2015 , 44, 1338-1343	1.9	2
146	Low temperature AlN growth by MBE and its application in HEMTs. <i>Journal of Crystal Growth</i> , 2015 , 425, 133-137	1.6	18
145	Two-Dimensional Heterojunction Interlayer Tunneling Field Effect Transistors (Thin-TFETs). <i>IEEE Journal of the Electron Devices Society</i> , 2015 , 3, 200-207	2.3	86
144	Comprehensive structural and optical characterization of MBE grown MoSe 2 on graphite, CaF 2 and graphene. <i>2D Materials</i> , 2015 , 2, 024007	5.9	104
143	High-voltage polarization-induced vertical heterostructure p-n junction diodes on bulk GaN substrates 2015 ,		3
142	Dual optical marker Raman characterization of strained GaN-channels on AlN using AlN/GaN/AlN quantum wells and 15N isotopes. <i>Applied Physics Letters</i> , 2015 , 106, 041906	3.4	10
141	Unique opportunity to harness polarization in GaN to override the conventional power electronics figure-of-merits 2015 ,		5
140	Lens-coupled folded-dipole antennas for terahertz detection and imaging. <i>IET Microwaves, Antennas and Propagation</i> , 2015 , 9, 1213-1220	1.6	8
139	Full-wave hydrodynamic model for predicting THz emission from grating-gate RTD-gated plasma wave HEMTs 2015 ,		2

(2014-2015)

138	Esaki Diodes in van der Waals Heterojunctions with Broken-Gap Energy Band Alignment. <i>Nano Letters</i> , 2015 , 15, 5791-8	11.5	237
137	Deep-UV LEDs using polarization-induced doping: Electroluminescence at cryogenic temperatures 2015 ,		1
136	Near unity ideality factor and Shockley-Read-Hall lifetime in GaN-on-GaN p-n diodes with avalanche breakdown. <i>Applied Physics Letters</i> , 2015 , 107, 243501	3.4	117
135	High breakdown single-crystal GaN p-n diodes by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2015 , 107, 232101	3.4	44
134	Polarization-induced Zener tunnel diodes in GaN/InGaN/GaN heterojunctions. <i>Applied Physics Letters</i> , 2015 , 107, 163504	3.4	27
133	. IEEE Electron Device Letters, 2015, 36, 375-377	4.4	126
132	2015,		16
131	Graphene nanoribbon field-effect transistors on wafer-scale epitaxial graphene on SiC substrates a. <i>APL Materials</i> , 2015 , 3, 011101	5.7	63
130	Chemical mechanical planarization of gold. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014 , 32, 021402	2.9	2
129	Electronic transport properties of top-gated epitaxial-graphene nanoribbon field-effect transistors on SiC wafers. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2014 , 32, 012202	1.3	4
128	Thermal conductivity of monolayer molybdenum disulfide obtained from temperature-dependent Raman spectroscopy. <i>ACS Nano</i> , 2014 , 8, 986-93	16.7	526
127	AlGaN/GaN HEMTs on Si by MBE with regrown contacts and fT = 153 GHz. <i>Physica Status Solidi C:</i> Current Topics in Solid State Physics, 2014 , 11, 887-889		8
126	Faceted sidewall etching of n-GaN on sapphire by photoelectrochemical wet processing. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2014 , 32, 061201	1.3	6
125	Two-dimensional electron gases in strained quantum wells for AlN/GaN/AlN double heterostructure field-effect transistors on AlN. <i>Applied Physics Letters</i> , 2014 , 104, 193506	3.4	35
124	GaN lateral PolarSJs: Polarization-doped super junctions 2014,		2
123	Tunnel-injection quantum dot deep-ultraviolet light-emitting diodes with polarization-induced doping in III-nitride heterostructures. <i>Applied Physics Letters</i> , 2014 , 104, 021105	3.4	68
122	High-voltage field effect transistors with wide-bandgap EGa2O3 nanomembranes. <i>Applied Physics Letters</i> , 2014 , 104, 203111	3.4	242
121	Coded-Aperture Imaging Using Photo-Induced Reconfigurable Aperture Arrays for Mapping Terahertz Beams. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2014 , 4, 321-327	3.4	36

12 0	GaN Heterostructure Barrier Diodes Exploiting Polarization-Induced \$delta\$ -Doping. <i>IEEE Electron Device Letters</i> , 2014 , 35, 615-617	4.4	6
119	Atomic Structure of Thin MoSe2 Films Grown by Molecular Beam Epitaxy. <i>Microscopy and Microanalysis</i> , 2014 , 20, 164-165	0.5	17
118	Impact of CF4plasma treatment on threshold voltage and mobility in Al2O3/InAlN/GaN MOSHEMTs. <i>Applied Physics Express</i> , 2014 , 7, 031002	2.4	15
117	Design, fabrication and characterization of 585 GHz integrated focal-plane arrays based on heterostructure backward diodes 2014 ,		3
116	Approaching real-time terahertz imaging with photo-induced coded apertures and compressed sensing. <i>Electronics Letters</i> , 2014 , 50, 801-803	1.1	26
115	Electron transport in 2D crystal semiconductors and their device applications 2014,		2
114	Ge quantum dots encapsulated by AlAs grown by molecular beam epitaxy on GaAs without extended defects. <i>Applied Physics Letters</i> , 2014 , 104, 073113	3.4	4
113	Single particle transport in two-dimensional heterojunction interlayer tunneling field effect transistor. <i>Journal of Applied Physics</i> , 2014 , 115, 074508	2.5	85
112	Vertical heterojunction of MoS2 and WSe2 2014 ,		3
111	Approaching real-time terahertz imaging using photo-induced reconfigurable aperture arrays 2014,		1
110	Graphene nanoribbon FETs for digital electronics: experiment and modeling. <i>International Journal of Circuit Theory and Applications</i> , 2013 , 41, 603-607	2	5
109	Electrical Noise and Transport Properties of Graphene. <i>Journal of Low Temperature Physics</i> , 2013 , 172, 202-211	1.3	9
108	Direct measurement of Dirac point energy at the graphene/oxide interface. Nano Letters, 2013, 13, 131	-6 1.5	56
107	Gate-recessed integrated E/D GaN HEMT technology with fT/fmax >300 GHz. <i>IEEE Electron Device Letters</i> , 2013 , 34, 741-743	4.4	70
106	Polarization-Induced GaN-on-Insulator E/D Mode p-Channel Heterostructure FETs. <i>IEEE Electron Device Letters</i> , 2013 , 34, 852-854	4.4	49
105	Time delay analysis in high speed gate-recessed E-mode InAlN HEMTs. <i>Solid-State Electronics</i> , 2013 , 80, 67-71	1.7	6
104	Ultrascaled InAlN/GaN High Electron Mobility Transistors with Cutoff Frequency of 400 GHz. Japanese Journal of Applied Physics, 2013 , 52, 08JN14	1.4	55
103	Evolution of strain in aluminum gallium nitride/gallium nitride high electron mobility transistors under on-state bias. <i>Journal of Applied Physics</i> , 2013 , 114, 064507	2.5	2

(2012-2013)

102	InGaN Channel High-Electron-Mobility Transistors with InAlGaN Barrier andfT/fmaxof 260/220 GHz. <i>Applied Physics Express</i> , 2013 , 6, 016503	2.4	30
101	Exfoliated MoTe2 field-effect transistor 2013 ,		3
100	A unique photoemission method to measure semiconductor heterojunction band offsets. <i>Applied Physics Letters</i> , 2013 , 102, 012101	3.4	10
99	Exciton dynamics in suspended monolayer and few-layer MoSI2D crystals. ACS Nano, 2013, 7, 1072-80	16.7	581
98	Power Amplification at THz via Plasma Wave Excitation in RTD-Gated HEMTs. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 200-206	3.4	25
97	Comparative study of chemically synthesized and exfoliated multilayer MoS2 field-effect transistors. <i>Applied Physics Letters</i> , 2013 , 102, 043116	3.4	33
96	Quaternary Barrier InAlGaN HEMTs With \$f_{T}/f_{max}\$ of 230/300 GHz. <i>IEEE Electron Device Letters</i> , 2013 , 34, 378-380	4.4	42
95	. Proceedings of the IEEE, 2013 , 101, 1705-1716	14.3	88
94	Tunnel-injection GaN quantum dot ultraviolet light-emitting diodes. <i>Applied Physics Letters</i> , 2013 , 102, 041103	3.4	56
93	Tunnel FETs with tunneling normal to the gate 2013,		1
92	Nanomembrane EGa2O3 high-voltage field effect transistors 2013 ,		1
91	Terahertz imaging employing graphene modulator arrays. <i>Optics Express</i> , 2013 , 21, 2324-30	3.3	85
90	Near-field enhanced graphene terahertz modulator 2013,		1
89	2013,		6
88	Terahertz plasmonic properties of highly oriented pyrolytic graphite. <i>Applied Physics Letters</i> , 2013 , 102, 171107	3.4	5
87	Terahertz focal plane arrays employing heterostructure backward diodes integrated with folded dipole antennas 2013 ,		9
86	Graphene as transparent electrode for direct observation of hole photoemission from silicon to oxide. <i>Applied Physics Letters</i> , 2013 , 102, 123106	3.4	18
85	AlGaSb/InAs Tunnel Field-Effect Transistor With On-Current of 78 \$muhbox{A}/muhbox{m}\$ at 0.5 V. IEEE Electron Device Letters, 2012 , 33, 363-365	4.4	112

84	. IEEE Electron Device Letters, 2012 , 33, 525-527	4.4	89
83	Performance of AlGaSb/InAs TFETs With Gate Electric Field and Tunneling Direction Aligned. <i>IEEE Electron Device Letters</i> , 2012 , 33, 655-657	4.4	84
82	Ultrathin Body GaN-on-Insulator Quantum Well FETs With Regrown Ohmic Contacts. <i>IEEE Electron Device Letters</i> , 2012 , 33, 661-663	4.4	34
81	Effect of Optical Phonon Scattering on the Performance of GaN Transistors. <i>IEEE Electron Device Letters</i> , 2012 , 33, 709-711	4.4	76
80	Extraordinary control of terahertz beam reflectance in graphene electro-absorption modulators. <i>Nano Letters</i> , 2012 , 12, 4518-22	11.5	187
79	InAlN/AlN/GaN HEMTs With Regrown Ohmic Contacts and \$f_{T}\$ of 370 GHz. <i>IEEE Electron Device Letters</i> , 2012 , 33, 988-990	4.4	252
78	Ultra-low resistance ohmic contacts to GaN with high Si doping concentrations grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2012 , 101, 032109	3.4	30
77	First demonstration of two-dimensional WS2 transistors exhibiting 105 room temperature modulation and ambipolar behavior 2012 ,		2
76	Polarization effects on gate leakage in InAlN/AlN/GaN high-electron-mobility transistors. <i>Applied Physics Letters</i> , 2012 , 101, 253519	3.4	47
75	Perspectives of TFETs for low power analog ICs 2012 ,		13
75 74	Perspectives of TFETs for low power analog ICs 2012, Transistors with chemically synthesized layered semiconductor WS2 exhibiting 105 room temperature modulation and ambipolar behavior. <i>Applied Physics Letters</i> , 2012, 101, 013107	3.4	13
	Transistors with chemically synthesized layered semiconductor WS2 exhibiting 105 room	3.4	
74	Transistors with chemically synthesized layered semiconductor WS2 exhibiting 105 room temperature modulation and ambipolar behavior. <i>Applied Physics Letters</i> , 2012 , 101, 013107 Efficient terahertz electro-absorption modulation employing graphene plasmonic structures.		212
74 73	Transistors with chemically synthesized layered semiconductor WS2 exhibiting 105 room temperature modulation and ambipolar behavior. <i>Applied Physics Letters</i> , 2012 , 101, 013107 Efficient terahertz electro-absorption modulation employing graphene plasmonic structures. <i>Applied Physics Letters</i> , 2012 , 101, 261115 Transport properties of graphene nanoribbon transistors on chemical-vapor-deposition grown	3.4	212
74 73 72	Transistors with chemically synthesized layered semiconductor WS2 exhibiting 105 room temperature modulation and ambipolar behavior. <i>Applied Physics Letters</i> , 2012 , 101, 013107 Efficient terahertz electro-absorption modulation employing graphene plasmonic structures. <i>Applied Physics Letters</i> , 2012 , 101, 261115 Transport properties of graphene nanoribbon transistors on chemical-vapor-deposition grown wafer-scale graphene. <i>Applied Physics Letters</i> , 2012 , 100, 203107 InAs/AlGaSb heterojunction tunnel field-effect transistor with tunnelling in-line with the gate field.	3.4	2128646
74 73 72 71	Transistors with chemically synthesized layered semiconductor WS2 exhibiting 105 room temperature modulation and ambipolar behavior. <i>Applied Physics Letters</i> , 2012 , 101, 013107 Efficient terahertz electro-absorption modulation employing graphene plasmonic structures. <i>Applied Physics Letters</i> , 2012 , 101, 261115 Transport properties of graphene nanoribbon transistors on chemical-vapor-deposition grown wafer-scale graphene. <i>Applied Physics Letters</i> , 2012 , 100, 203107 InAs/AlGaSb heterojunction tunnel field-effect transistor with tunnelling in-line with the gate field. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 389-392 In-situ X-ray photoelectron spectroscopy of trimethyl aluminum and water half-cycle treatments on	3.4	212864627
74 73 72 71 70	Transistors with chemically synthesized layered semiconductor WS2 exhibiting 105 room temperature modulation and ambipolar behavior. <i>Applied Physics Letters</i> , 2012 , 101, 013107 Efficient terahertz electro-absorption modulation employing graphene plasmonic structures. <i>Applied Physics Letters</i> , 2012 , 101, 261115 Transport properties of graphene nanoribbon transistors on chemical-vapor-deposition grown wafer-scale graphene. <i>Applied Physics Letters</i> , 2012 , 100, 203107 InAs/AlGaSb heterojunction tunnel field-effect transistor with tunnelling in-line with the gate field. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 389-392 In-situ X-ray photoelectron spectroscopy of trimethyl aluminum and water half-cycle treatments on HF-treated and O3-oxidized GaN substrates. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 22-24. Determination of graphene work function and graphene-insulator-semiconductor band alignment	3.4 3.4 4 ^{2.5}	212 86 46 27 20

66	Response to Comment on Zener tunneling semiconducting nanotubes and graphene nanoribbon p-n junctions[Appl. Phys. Lett. 101, 256103 (2012)]. <i>Applied Physics Letters</i> , 2012 , 101, 256104	3.4	
65	Fabrication of top-gated epitaxial graphene nanoribbon FETs using hydrogen-silsesquioxane. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 03D104	1.3	16
64	A new class of electrically tunable metamaterial terahertz modulators. <i>Optics Express</i> , 2012 , 20, 28664-7	73 .3	81
63	Monolithically integrated E/D-mode InAlN HEMTs with E/hax > 200/220 GHz 2012 ,		5
62	Ultra-thin Body GaN-on-insulator nFETs and pFETs: Towards III-nitride complementary logic 2012 ,		5
61	Unique prospects for graphene-based terahertz modulators. <i>Applied Physics Letters</i> , 2011 , 99, 113104	3.4	149
60	Metal-face InAlN/AlN/GaN high electron mobility transistors with regrown ohmic contacts by molecular beam epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1617-161	₫.6	19
59	Subcritical barrier AlN/GaN E/D-mode HFETs and inverters. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1620-1622	1.6	14
58	Polarization-engineering in group III-nitride heterostructures: New opportunities for device design. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1511-1516	1.6	66
57	Effect of optical phonon scattering on the performance limits of ultrafast GaN transistors 2011 ,		2
56	Presence and origin of interface charges at atomic-layer deposited Al2O3/III-nitride heterojunctions. <i>Applied Physics Letters</i> , 2011 , 99, 193504	3.4	132
55	Barrier height, interface charge & tunneling effective mass in ALD Al2O3/AlN/GaN HEMTs 2011 ,		3
54	Green luminescence of InGaN nanowires grown on silicon substrates by molecular beam epitaxy. Journal of Applied Physics, 2011 , 109, 084336	2.5	46
53	220-GHz Quaternary Barrier InAlGaN/AlN/GaN HEMTs. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1215-1217	4.4	58
52	Studies of intrinsic hot phonon dynamics in suspended graphene by transient absorption microscopy. <i>Nano Letters</i> , 2011 , 11, 3184-9	11.5	79
51	N-polar III-nitride quantum well light-emitting diodes with polarization-induced doping. <i>Applied Physics Letters</i> , 2011 , 99, 171104	3.4	55
50	Self-aligned InAs/Al0.45Ga0.55Sb vertical tunnel FETs 2011 ,		5
49	A 570-630 GHz FREQUENCY DOMAIN TERAHERTZ SPECTROSCOPY SYSTEM BASED ON A BROADBAND QUASI-OPTICAL ZERO BIAS SCHOTTKY DIODE DETECTOR. International Journal of High Speed Electronics and Systems 2011, 20, 629-638	0.5	15

48	FET THZ DETECTORS OPERATING IN THE QUANTUM CAPACITANCE LIMITED REGION. <i>International Journal of High Speed Electronics and Systems</i> , 2011 , 20, 597-609	0.5	6
47	Polarization-mediated remote surface roughness scattering in ultrathin barrier GaN high-electron mobility transistors. <i>Applied Physics Letters</i> , 2010 , 97, 222116	3.4	22
46	Polarization-engineered removal of buffer leakage for GaN transistors. <i>Applied Physics Letters</i> , 2010 , 96, 042102	3.4	36
45	High mobility two-dimensional electron gases in nitride heterostructures with high Al composition AlGaN alloy barriers. <i>Applied Physics Letters</i> , 2010 , 97, 222110	3.4	12
44	High-performance monolithically-integrated E/D mode InAlN/AlN/GaN HEMTs for mixed-signal applications 2010 ,		8
43	Threshold Voltage Control in \$hbox{Al}_{0.72} hbox{Ga}_{0.28}hbox{N/AlN/GaN}\$ HEMTs by Work-Function Engineering. <i>IEEE Electron Device Letters</i> , 2010 , 31, 954-956	4.4	34
42	Polarization-induced hole doping in wide-band-gap uniaxial semiconductor heterostructures. <i>Science</i> , 2010 , 327, 60-4	33.3	534
41	Scalability of Atomic-Thin-Body (ATB) Transistors Based on Graphene Nanoribbons. <i>IEEE Electron Device Letters</i> , 2010 , 31, 531-533	4.4	16
40	Gate-Recessed Enhancement-Mode InAlN/AlN/GaN HEMTs With 1.9-A/mm Drain Current Density and 800-mS/mm Transconductance. <i>IEEE Electron Device Letters</i> , 2010 , 31, 1383-1385	4.4	111
39	Quantum transport in graphene nanoribbons patterned by metal masks. <i>Applied Physics Letters</i> , 2010 , 96, 103109	3.4	41
38	High performance E-mode InAlN/GaN HEMTs: Interface states from subthreshold slopes 2010,		1
37	Performance evaluation of silicon and gallium nitride power FETs for DC/DC power converter applications 2010 ,		6
36	4-NM Aln BARRIER ALL BINARY HFET WITH SINx GATE DIELECTRIC. <i>International Journal of High Speed Electronics and Systems</i> , 2009 , 19, 153-159	0.5	4
35	Polarization-induced Zener tunnel junctions in wide-band-gap heterostructures. <i>Physical Review Letters</i> , 2009 , 103, 026801	7.4	107
34	High field transport properties of 2D and nanoribbon graphene FETs 2009,		5
33	Top-down AlN/GaN enhancement- & depletion-mode nanoribbon HEMTs 2009,		12
32	4-NM AlN BARRIER ALL BINARY HFET WITH SINX GATE DIELECTRIC. Selected Topics in Electornics and Systems, 2009 , 153-159	О	
31	Electrical transport properties of wafer-fused p-GaAs/n-GaN heterojunctions. <i>Applied Physics Letters</i> , 2008 , 93, 112103	3.4	20

(2004-2008)

30	Photocurrent polarization anisotropy of randomly oriented nanowire networks. <i>Nano Letters</i> , 2008 , 8, 1352-7	11.5	29
29	Zener tunneling in semiconducting nanotube and graphene nanoribbon pl junctions. <i>Applied Physics Letters</i> , 2008 , 93, 112106	3.4	76
28	Very low sheet resistance and Shubnikovde-Haas oscillations in two-dimensional electron gases at ultrathin binary AlNGaN heterojunctions. <i>Applied Physics Letters</i> , 2008 , 92, 152112	3.4	36
27	AlN/GaN Insulated-Gate HEMTs With 2.3 A/mm Output Current and 480 mS/mm Transconductance. <i>IEEE Electron Device Letters</i> , 2008 , 29, 661-664	4.4	122
26	The role of setback layers on the breakdown characteristics of AlGaAs/GaAs/GaN HBTs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 1989-1991		1
25	Formation of ohmic contacts to ultra-thin channel AlN/GaN HEMTs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 2030-2032		13
24	The role of doping type in setback layers on wafer-fused AlGaAs/GaAs/GaN HBTs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 2960-2962		
23	2.3 nm barrier AlN/GaN HEMTs with insulated gates. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 2047-2049		14
22	Graphene Nanoribbon Tunnel Transistors. IEEE Electron Device Letters, 2008, 29, 1344-1346	4.4	163
21	Polarization-sensitive nanowire photodetectors based on solution-synthesized CdSe quantum-wire solids. <i>Nano Letters</i> , 2007 , 7, 2999-3006	11.5	88
20	Carrier statistics and quantum capacitance of graphene sheets and ribbons. <i>Applied Physics Letters</i> , 2007 , 91, 092109	3.4	460
19	DC Characteristics of AlGaAs/GaAs/GaN HBTs Formed by Direct Wafer Fusion. <i>IEEE Electron Device Letters</i> , 2007 , 28, 8-10	4.4	19
18	Carrier transport and confinement in polarization-induced three-dimensional electron slabs: Importance of alloy scattering in AlGaN. <i>Applied Physics Letters</i> , 2006 , 88, 042109	3.4	38
17	Electron mobility in graded AlGaN alloys. <i>Applied Physics Letters</i> , 2006 , 88, 042103	3.4	33
16	Polarization-Induced 3-Dimensional Electron Slabs in Graded AlGaN Layers. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 892, 375		
15	TEMPERATURE DEPENDENT I-V CHARACTERISTICS OF AlGaN/GaN HBTS AND GaN BJTS. International Journal of High Speed Electronics and Systems, 2004 , 14, 819-824	0.5	10
14	High breakdown voltage AlGaN-GaN HEMTs achieved by multiple field plates. <i>IEEE Electron Device Letters</i> , 2004 , 25, 161-163	4.4	250
13	AlGaN/GaN polarization-doped field-effect transistor for microwave power applications. <i>Applied Physics Letters</i> , 2004 , 84, 1591-1593	3.4	74

12	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
11	n-AlGaAs/p-GaAs/n-GaN heterojunction bipolar transistor wafer-fused at 550🛭50 ˚LC. <i>Applied Physics Letters</i> , 2003 , 83, 560-562	3.4	5
10	Wafer-fused AlGaAs/GaAs/GaN heterojunction bipolar transistor. <i>Applied Physics Letters</i> , 2003 , 82, 820-	-83.2	9
9	Very high voltage operation (>330 V) with high current gain of AlGaN/GaN HBTs. <i>IEEE Electron Device Letters</i> , 2003 , 24, 141-143	4.4	34
8	Ultrashort hole capture time in Mg-doped GaN thin films. <i>Applied Physics Letters</i> , 2002 , 81, 3975-3977	3.4	13
7	Realization of wide electron slabs by polarization bulk doping in graded IIII nitride semiconductor alloys. <i>Applied Physics Letters</i> , 2002 , 81, 4395-4397	3.4	136
6	The First Wafer-fused AlGaAs-GaAs-GaN Heterojunction Bipolar Transistor. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 743, L12.10.1		
5	. IEEE Transactions on Electron Devices, 2001 , 48, 543-551	2.9	59
4	Heavy doping effects in Mg-doped GaN. Journal of Applied Physics, 2000, 87, 1832-1835	2.5	296
3	Photoelectric Generation Coefficient of B-Gallium Oxide during Exposure to High-Energy Ionizing Radiation. <i>Physica Status Solidi (A) Applications and Materials Science</i> ,2100700	1.6	
2	Very High Density (>10 14 cm 🛭) Polarization-Induced 2D Hole Gases Observed in Undoped Pseudomorphic InGaN/AlN Heterostructures. <i>Advanced Electronic Materials</i> ,2101120	6.4	3
1	In Situ Crystalline AlN Passivation for Reduced RF Dispersion in Strained-Channel AlN/GaN/AlN High-Electron-Mobility Transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> ,2100452	1.6	5