

Huili Grace Xing

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336
ext. papers

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ext. citations

4.3
avg, IF

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L-index

#	Paper	IF	Citations
299	Broadband graphene terahertz modulators enabled by intraband transitions. <i>Nature Communications</i> , 2012 , 3, 780	17.4	715
298	Exciton dynamics in suspended monolayer and few-layer MoS ₂ crystals. <i>ACS Nano</i> , 2013 , 7, 1072-80	16.7	581
297	Polarization-induced hole doping in wide-band-gap uniaxial semiconductor heterostructures. <i>Science</i> , 2010 , 327, 60-4	33.3	534
296	Thermal conductivity of monolayer molybdenum disulfide obtained from temperature-dependent Raman spectroscopy. <i>ACS Nano</i> , 2014 , 8, 986-93	16.7	526
295	Carrier statistics and quantum capacitance of graphene sheets and ribbons. <i>Applied Physics Letters</i> , 2007 , 91, 092109	3.4	460
294	Heavy doping effects in Mg-doped GaN. <i>Journal of Applied Physics</i> , 2000 , 87, 1832-1835	2.5	296
293	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
292	High breakdown voltage AlGaIn-GaN HEMTs achieved by multiple field plates. <i>IEEE Electron Device Letters</i> , 2004 , 25, 161-163	4.4	250
291	High-voltage field effect transistors with wide-bandgap AlGaInO_3 nanomembranes. <i>Applied Physics Letters</i> , 2014 , 104, 203111	3.4	242
290	Esaki Diodes in van der Waals Heterojunctions with Broken-Gap Energy Band Alignment. <i>Nano Letters</i> , 2015 , 15, 5791-8	11.5	237
289	Intrinsic electron mobility limits in AlGaInO_3 . <i>Applied Physics Letters</i> , 2016 , 109, 212101	3.4	223
288	Transistors with chemically synthesized layered semiconductor WS ₂ exhibiting 105 room temperature modulation and ambipolar behavior. <i>Applied Physics Letters</i> , 2012 , 101, 013107	3.4	212
287	Extraordinary control of terahertz beam reflectance in graphene electro-absorption modulators. <i>Nano Letters</i> , 2012 , 12, 4518-22	11.5	187
286	Enhancement-Mode Ga ₂ O ₃ Vertical Transistors With Breakdown Voltage >1 kV. <i>IEEE Electron Device Letters</i> , 2018 , 39, 869-872	4.4	166
285	Graphene Nanoribbon Tunnel Transistors. <i>IEEE Electron Device Letters</i> , 2008 , 29, 1344-1346	4.4	163
284	Unique prospects for graphene-based terahertz modulators. <i>Applied Physics Letters</i> , 2011 , 99, 113104	3.4	149
283	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

282	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
281	Determination of graphene work function and graphene-insulator-semiconductor band alignment by internal photoemission spectroscopy. <i>Applied Physics Letters</i> , 2012 , 101, 022105	3.4	134
280	Presence and origin of interface charges at atomic-layer deposited Al ₂ O ₃ /III-nitride heterojunctions. <i>Applied Physics Letters</i> , 2011 , 99, 193504	3.4	132
279	. <i>IEEE Electron Device Letters</i> , 2015 , 36, 375-377	4.4	126
278	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
277	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
276	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
275	AlGaSb/InAs Tunnel Field-Effect Transistor With On-Current of 78 $\mu\text{A}/\mu\text{m}^2$ at 0.5 V. <i>IEEE Electron Device Letters</i> , 2012 , 33, 363-365	4.4	112
274	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
273	Polarization-induced Zener tunnel junctions in wide-band-gap heterostructures. <i>Physical Review Letters</i> , 2009 , 103, 026801	7.4	107
272	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
271	Field-Plated Ga ₂ O ₃ Trench Schottky Barrier Diodes With a BV ₂ / $R_{\text{on,sp}}$ of up to 0.95 GW/cm ² . <i>IEEE Electron Device Letters</i> , 2020 , 41, 107-110	4.4	97
270	Breakdown mechanism in 1 kA/cm ² and 960 V E-mode Ga ₂ O ₃ vertical transistors. <i>Applied Physics Letters</i> , 2018 , 113, 122103	3.4	91
269	. <i>IEEE Electron Device Letters</i> , 2012 , 33, 525-527	4.4	89
268	. <i>Proceedings of the IEEE</i> , 2013 , 101, 1705-1716	14.3	88
267	Polarization-sensitive nanowire photodetectors based on solution-synthesized CdSe quantum-wire solids. <i>Nano Letters</i> , 2007 , 7, 2999-3006	11.5	88
266	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
265	Efficient terahertz electro-absorption modulation employing graphene plasmonic structures. <i>Applied Physics Letters</i> , 2012 , 101, 261115	3.4	86

264	MBE-grown 232nm deep-UV LEDs using monolayer thin binary GaN/AlN quantum heterostructures. <i>Applied Physics Letters</i> , 2017 , 110, 041108	3.4	85
263	Single particle transport in two-dimensional heterojunction interlayer tunneling field effect transistor. <i>Journal of Applied Physics</i> , 2014 , 115, 074508	2.5	85
262	Terahertz imaging employing graphene modulator arrays. <i>Optics Express</i> , 2013 , 21, 2324-30	3.3	85
261	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
260	GaN/NbN epitaxial semiconductor/superconductor heterostructures. <i>Nature</i> , 2018 , 555, 183-189	50.4	83
259	A new class of electrically tunable metamaterial terahertz modulators. <i>Optics Express</i> , 2012 , 20, 28664-713	3.3	81
258	Studies of intrinsic hot phonon dynamics in suspended graphene by transient absorption microscopy. <i>Nano Letters</i> , 2011 , 11, 3184-9	11.5	79
257	Effect of Optical Phonon Scattering on the Performance of GaN Transistors. <i>IEEE Electron Device Letters</i> , 2012 , 33, 709-711	4.4	76
256	Zener tunneling in semiconducting nanotube and graphene nanoribbon p-n junctions. <i>Applied Physics Letters</i> , 2008 , 93, 112106	3.4	76
255	AlGaIn/GaN polarization-doped field-effect transistor for microwave power applications. <i>Applied Physics Letters</i> , 2004 , 84, 1591-1593	3.4	74
254	Gate-recessed integrated E/D GaN HEMT technology with $f_T/f_{max} > 300$ GHz. <i>IEEE Electron Device Letters</i> , 2013 , 34, 741-743	4.4	70
253	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
252	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
251	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
250	Graphene nanoribbon field-effect transistors on wafer-scale epitaxial graphene on SiC substrates. <i>APL Materials</i> , 2015 , 3, 011101	5.7	63
249	Scanning Tunneling Microscopy and Spectroscopy of Air Exposure Effects on Molecular Beam Epitaxy Grown WSe ₂ Monolayers and Bilayers. <i>ACS Nano</i> , 2016 , 10, 4258-67	16.7	62
248	1230 V AlGa _{0.3} In _{0.7} O ₃ trench Schottky barrier diodes with an ultra-low leakage current of . <i>Applied Physics Letters</i> , 2018 , 113, 202101	3.4	61
247	. <i>IEEE Transactions on Electron Devices</i> , 2001 , 48, 543-551	2.9	59

246	. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 1635-1641	2.9	58
245	Layered transition metal dichalcogenides: promising near-lattice-matched substrates for GaN growth. <i>Scientific Reports</i> , 2016 , 6, 23708	4.9	58
244	220-GHz Quaternary Barrier InAlGa _N /AlN/GaN HEMTs. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1215-1217	4.4	58
243	A polarization-induced 2D hole gas in undoped gallium nitride quantum wells. <i>Science</i> , 2019 , 365, 1454-1457	3.3	57
242	Direct measurement of Dirac point energy at the graphene/oxide interface. <i>Nano Letters</i> , 2013 , 13, 131-135	6.5	56
241	Tunnel-injection GaN quantum dot ultraviolet light-emitting diodes. <i>Applied Physics Letters</i> , 2013 , 102, 041103	3.4	56
240	Ultrascaled InAlN/GaN High Electron Mobility Transistors with Cutoff Frequency of 400 GHz. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JN14	1.4	55
239	N-polar III-nitride quantum well light-emitting diodes with polarization-induced doping. <i>Applied Physics Letters</i> , 2011 , 99, 171104	3.4	55
238	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
237	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
236	Atomic Layer Deposition of Al ₂ O ₃ on WSe ₂ Functionalized by Titanyl Phthalocyanine. <i>ACS Nano</i> , 2016 , 10, 6888-96	16.7	48
235	Polarization effects on gate leakage in InAlN/AlN/GaN high-electron-mobility transistors. <i>Applied Physics Letters</i> , 2012 , 101, 253519	3.4	47
234	High Breakdown Voltage in RF AlN/GaN/AlN Quantum Well HEMTs. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1293-1296	4.4	46
233	Transport properties of graphene nanoribbon transistors on chemical-vapor-deposition grown wafer-scale graphene. <i>Applied Physics Letters</i> , 2012 , 100, 203107	3.4	46
232	Green luminescence of InGa _N nanowires grown on silicon substrates by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2011 , 109, 084336	2.5	46
231	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
230	Exceptional Terahertz Wave Modulation in Graphene Enhanced by Frequency Selective Surfaces. <i>ACS Photonics</i> , 2016 , 3, 315-323	6.3	45
229	High breakdown single-crystal GaN p-n diodes by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2015 , 107, 232101	3.4	44

228	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
227	Near-ideal reverse leakage current and practical maximum electric field in AlGa_2O_3 Schottky barrier diodes. <i>Applied Physics Letters</i> , 2020 , 116, 192101	3.4	42
226	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
225	Deep-UV emission at 219 nm from ultrathin MBE GaN/AlN quantum heterostructures. <i>Applied Physics Letters</i> , 2017 , 111, 091104	3.4	42
224	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
223	Thermal conductivity of crystalline AlN and the influence of atomic-scale defects. <i>Journal of Applied Physics</i> , 2019 , 126, 185105	2.5	42
222	Quantum transport in graphene nanoribbons patterned by metal masks. <i>Applied Physics Letters</i> , 2010 , 96, 103109	3.4	41
221	Room temperature microwave oscillations in GaN/AlN resonant tunneling diodes with peak current densities up to 220 kA/cm ² . <i>Applied Physics Letters</i> , 2018 , 112, 103101	3.4	38
220	Carrier transport and confinement in polarization-induced three-dimensional electron slabs: Importance of alloy scattering in AlGaIn. <i>Applied Physics Letters</i> , 2006 , 88, 042109	3.4	38
219	Prospects for Wide Bandgap and Ultrawide Bandgap CMOS Devices. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 4010-4020	2.9	38
218	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
217	Fiber Reinforced Layered Dielectric Nanocomposite. <i>Advanced Functional Materials</i> , 2019 , 29, 1900056	15.6	36
216	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
215	Polarization-engineered removal of buffer leakage for GaN transistors. <i>Applied Physics Letters</i> , 2010 , 96, 042102	3.4	36
214	Very low sheet resistance and Shubnikov-de Haas oscillations in two-dimensional electron gases at ultrathin binary AlN/GaN heterojunctions. <i>Applied Physics Letters</i> , 2008 , 92, 152112	3.4	36
213	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
212	Crystal orientation dictated epitaxy of ultrawide-bandgap 5.4- to 8.6-eV AlGaO on m-plane sapphire. <i>Science Advances</i> , 2021 , 7,	14.3	35
211	Inductively-coupled-plasma reactive ion etching of single-crystal AlGa_2O_3 . <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 030304	1.4	34

210	Strained GaN quantum-well FETs on single crystal bulk AlN substrates. <i>Applied Physics Letters</i> , 2017 , 110, 063501	3-4	34
209	New Tunneling Features in Polar III-Nitride Resonant Tunneling Diodes. <i>Physical Review X</i> , 2017 , 7,	9-1	34
208	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
207	Threshold Voltage Control in $\text{Al}_{0.72}\text{Ga}_{0.28}\text{N}/\text{AlN}/\text{GaN}$ HEMTs by Work-Function Engineering. <i>IEEE Electron Device Letters</i> , 2010 , 31, 954-956	4-4	34
206	Very high voltage operation (>330 V) with high current gain of AlGaIn/GaN HBTs. <i>IEEE Electron Device Letters</i> , 2003 , 24, 141-143	4-4	34
205	Comparative study of chemically synthesized and exfoliated multilayer MoS ₂ field-effect transistors. <i>Applied Physics Letters</i> , 2013 , 102, 043116	3-4	33
204	Electron mobility in graded AlGaIn alloys. <i>Applied Physics Letters</i> , 2006 , 88, 042103	3-4	33
203	Development of GaN Vertical Trench-MOSFET With MBE Regrown Channel. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 2558-2564	2-9	32
202	MBE growth of few-layer 2H-MoTe ₂ on 3D substrates. <i>Journal of Crystal Growth</i> , 2018 , 482, 61-69	1-6	30
201	InGaIn Channel High-Electron-Mobility Transistors with InAlGaIn Barrier and f_T/f_{max} of 260/220 GHz. <i>Applied Physics Express</i> , 2013 , 6, 016503	2-4	30
200	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
199	Fin-channel orientation dependence of forward conduction in kV-class Ga ₂ O ₃ trench Schottky barrier diodes. <i>Applied Physics Express</i> , 2019 , 12, 061007	2-4	29
198	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
197	Photocurrent polarization anisotropy of randomly oriented nanowire networks. <i>Nano Letters</i> , 2008 , 8, 1352-7	11-5	29
196	Polarization-induced Zener tunnel diodes in GaN/InGaIn/GaN heterojunctions. <i>Applied Physics Letters</i> , 2015 , 107, 163504	3-4	27
195	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		27
194	Ultralow-Leakage AlGaIn/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
193	Approaching real-time terahertz imaging with photo-induced coded apertures and compressed sensing. <i>Electronics Letters</i> , 2014 , 50, 801-803	1-1	26

192	Guiding Principles for Trench Schottky Barrier Diodes Based on Ultrawide Bandgap Semiconductors: A Case Study in GaN. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 3938-3947	2.9	26
191	Activation of buried p-GaN in MOCVD-regrown vertical structures. <i>Applied Physics Letters</i> , 2018 , 113, 062105	3.4	25
190	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
189	Room temperature weak ferromagnetism in Sn _{1-x} MnxSe ₂ 2D films grown by molecular beam epitaxy. <i>APL Materials</i> , 2016 , 4, 032601	5.7	25
188	Sub-230 nm deep-UV emission from GaN quantum disks in AlN grown by a modified Stranski-Krastanov mode. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 05FF06	1.4	23
187	2019 ,		23
186	2.44 kV Ga ₂ O ₃ vertical trench Schottky barrier diodes with very low reverse leakage current 2018 ,		23
185	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
184	In-situ X-ray photoelectron spectroscopy of trimethyl aluminum and water half-cycle treatments on HF-treated and O ₃ -oxidized GaN substrates. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 22-24	2.5	20
183	Electrical transport properties of wafer-fused p-GaAs/n-GaN heterojunctions. <i>Applied Physics Letters</i> , 2008 , 93, 112103	3.4	20
182	1.6 kV Vertical Ga ₂ O ₃ FinFETs With Source-Connected Field Plates and Normally-off Operation 2019 ,		19
181	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, 1617-1619	1.6	19
180	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
179	Oxygen Incorporation in the Molecular Beam Epitaxy Growth of Sc _x Ga _{1-x} N and Sc _x Al _{1-x} N. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900612	1.3	19
178	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
177	Low temperature AlN growth by MBE and its application in HEMTs. <i>Journal of Crystal Growth</i> , 2015 , 425, 133-137	1.6	18
176	Room-Temperature Graphene-Nanoribbon Tunneling Field-Effect Transistors. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	18
175	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

174	Significantly reduced thermal conductivity in $(\text{Al}_{0.1}\text{Ga}_{0.9})\text{N}/\text{GaN}$ superlattices. <i>Applied Physics Letters</i> , 2019 , 115, 092105	3.4	17
173	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
172	Molecular beam homoepitaxy on bulk AlN enabled by aluminum-assisted surface cleaning. <i>Applied Physics Letters</i> , 2020 , 116, 172106	3.4	17
171	Surface control and MBE growth diagram for homoepitaxy on single-crystal AlN substrates. <i>Applied Physics Letters</i> , 2020 , 116, 262102	3.4	17
170	Atomic Structure of Thin MoSe ₂ Films Grown by Molecular Beam Epitaxy. <i>Microscopy and Microanalysis</i> , 2014 , 20, 164-165	0.5	17
169	Selective Chemical Response of Transition Metal Dichalcogenides and Metal Dichalcogenides in Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29255-29264	9.5	17
168	Next generation electronics on the ultrawide-bandgap aluminum nitride platform. <i>Semiconductor Science and Technology</i> , 2021 , 36, 044001	1.8	17
167	GaN/AlN Schottky-gate p-channel HFETs with InGaN contacts and 100 mA/mm on-current 2019 ,		17
166	Fully transparent field-effect transistor with high drain current and on-off ratio. <i>APL Materials</i> , 2020 , 8, 011110	5.7	16
165	2015 ,		16
164	Scalability of Atomic-Thin-Body (ATB) Transistors Based on Graphene Nanoribbons. <i>IEEE Electron Device Letters</i> , 2010 , 31, 531-533	4.4	16
163	Fabrication of top-gated epitaxial graphene nanoribbon FETs using hydrogen-silsesquioxane. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 03D104	1.3	16
162	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
161	Impact of CF ₄ plasma treatment on threshold voltage and mobility in Al ₂ O ₃ /InAlN/GaN MOSHEMTs. <i>Applied Physics Express</i> , 2014 , 7, 031002	2.4	15
160	A 570-630 GHz FREQUENCY DOMAIN TERAHERTZ SPECTROSCOPY SYSTEM BASED ON A BROADBAND QUASI-OPTICAL ZERO BIAS SCHOTTKY DIODE DETECTOR. <i>International Journal of High Speed Electronics and Systems</i> , 2011 , 20, 629-638	0.5	15
159	Rotationally aligned hexagonal boron nitride on sapphire by high-temperature molecular beam epitaxy. <i>Physical Review Materials</i> , 2019 , 3,	3.2	15
158	Structural and piezoelectric properties of ultra-thin Sc _x Al _{1-x} N films grown on GaN by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2020 , 117, 112101	3.4	15
157	Wurtzite phonons and the mobility of a GaN/AlN 2D hole gas. <i>Applied Physics Letters</i> , 2019 , 114, 253501	3.4	14

156	Polarization control in nitride quantum well light emitters enabled by bottom tunnel-junctions. <i>Journal of Applied Physics</i> , 2019 , 125, 203104	2.5	14
155	Band Structure Engineering of Layered WSe One-Step Chemical Functionalization. <i>ACS Nano</i> , 2019 , 13, 7545-7555	16.7	14
154	Molecular beam epitaxial growth of scandium nitride on hexagonal SiC, GaN, and AlN. <i>Applied Physics Letters</i> , 2019 , 115, 172101	3.4	14
153	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
152	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
151	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
150	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
149	Perspectives of TFETs for low power analog ICs 2012 ,		13
148	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
147	Ultrashort hole capture time in Mg-doped GaN thin films. <i>Applied Physics Letters</i> , 2002 , 81, 3975-3977	3.4	13
146	Two-dimensional heterojunction interlayer tunnel FET (Thin-TFET): From theory to applications 2016 ,		13
145	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
144	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
143	High mobility two-dimensional electron gases in nitride heterostructures with high Al composition AlGa _N alloy barriers. <i>Applied Physics Letters</i> , 2010 , 97, 222110	3.4	12
142	Top-down AlN/GaN enhancement- & depletion-mode nanoribbon HEMTs 2009 ,		12
141	Enhanced injection efficiency and light output in bottom tunnel-junction light-emitting diodes. <i>Optics Express</i> , 2020 , 28, 4489-4500	3.3	12
140	Epitaxial niobium nitride superconducting nanowire single-photon detectors. <i>Applied Physics Letters</i> , 2020 , 117, 132601	3.4	12
139	. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 3954-3959	2.9	12

138	Terahertz amplification in RTD-gated HEMTs with a grating-gate wave coupling topology. <i>Applied Physics Letters</i> , 2016 , 109, 063111	3.4	12
137	Anisotropic dielectric functions, band-to-band transitions, and critical points in AlGa_2O_3 . <i>Applied Physics Letters</i> , 2021 , 118, 062103	3.4	12
136	Steep Sub-Boltzmann Switching in AlGa _N /Ga _N Phase-FETs With ALD VO ₂ . <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 945-949	2.9	11
135	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
134	Adsorption-controlled growth of Ga ₂ O ₃ by suboxide molecular-beam epitaxy. <i>APL Materials</i> , 2021 , 9, 031101	5.7	11
133	Dual optical marker Raman characterization of strained Ga _N -channels on Al _N using Al _N /Ga _N /Al _N quantum wells and ¹⁵ N isotopes. <i>Applied Physics Letters</i> , 2015 , 106, 041906	3.4	10
132	A unique photoemission method to measure semiconductor heterojunction band offsets. <i>Applied Physics Letters</i> , 2013 , 102, 012101	3.4	10
131	600 V Ga _N vertical V-trench MOSFET with MBE regrown channel 2017 ,		10
130	TEMPERATURE DEPENDENT I-V CHARACTERISTICS OF AlGa _N /Ga _N HBTS AND Ga _N BJTS. <i>International Journal of High Speed Electronics and Systems</i> , 2004 , 14, 819-824	0.5	10
129	Band offset and electron affinity of MBE-grown SnSe ₂ . <i>Applied Physics Letters</i> , 2018 , 112, 042108	3.4	9
128	Electrical Noise and Transport Properties of Graphene. <i>Journal of Low Temperature Physics</i> , 2013 , 172, 202-211	1.3	9
127	Terahertz focal plane arrays employing heterostructure backward diodes integrated with folded dipole antennas 2013 ,		9
126	Wafer-fused AlGaAs/GaAs/Ga _N heterojunction bipolar transistor. <i>Applied Physics Letters</i> , 2003 , 82, 820-822	3.4	9
125	Molecular Beam Epitaxy Growth of Large-Area Ga _N /Al _N 2D Hole Gas Heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900567	1.3	9
124	1.5 kV Vertical Ga ₂ O ₃ Trench-MIS Schottky Barrier Diodes 2018 ,		9
123	High-frequency and below bandgap anisotropic dielectric constants in $\text{Al}_x\text{Ga}_{1-x}\text{O}_3$. <i>Applied Physics Letters</i> , 2021 , 119, 092103	3.4	9
122	Electron mobility in polarization-doped Al _{0.2} Ga _N with a low concentration near 10 ¹⁷ cm ⁻³ . <i>Applied Physics Letters</i> , 2017 , 110, 182102	3.4	8
121	Electronic Structure of the Metastable Epitaxial Rock-Salt SnSe {111} Topological Crystalline Insulator. <i>Physical Review X</i> , 2017 , 7,	9.1	8

120	Electronic structure of SnSe ₂ films grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2019 , 114, 091602	3.4	8
119	Lens-coupled folded-dipole antennas for terahertz detection and imaging. <i>IET Microwaves, Antennas and Propagation</i> , 2015 , 9, 1213-1220	1.6	8
118	Fighting Broken Symmetry with Doping: Toward Polar Resonant Tunneling Diodes with Symmetric Characteristics. <i>Physical Review Applied</i> , 2020 , 13,	4.3	8
117	All-Epitaxial Bulk Acoustic Wave Resonators. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900786	1.6	8
116	. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 4597-4603	2.9	8
115	AlGa _N /Ga _N HEMTs on Si by MBE with regrown contacts and FT = 153 GHz. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 887-889		8
114	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
113	High-performance monolithically-integrated E/D mode InAlN/AlN/GaN HEMTs for mixed-signal applications 2010 ,		8
112	Intra- and inter-conduction band optical absorption processes in β -Ga ₂ O ₃ . <i>Applied Physics Letters</i> , 2020 , 117, 072103	3.4	8
111	Thermal stability of epitaxial β -Ga ₂ O ₃ and (Al,Ga) ₂ O ₃ layers on m-plane sapphire. <i>Applied Physics Letters</i> , 2021 , 119, 062102	3.4	8
110	Self-assembly and properties of domain walls in BiFeO ₃ layers grown via molecular-beam epitaxy. <i>APL Materials</i> , 2019 , 7, 071101	5.7	7
109	High aspect ratio features in poly(methylglutarimide) using electron beam lithography and solvent developers. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 06F101	1.3	7
108	β -phase inclusions as common structural defects in alloyed β -(Al _x Ga _{1-x}) ₂ O ₃ and doped β -Ga ₂ O ₃ films. <i>APL Materials</i> , 2021 , 9, 051119	5.7	7
107	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
106	High-mobility two-dimensional electron gases at AlGa _N /Ga _N heterostructures grown on GaN bulk wafers and GaN template substrates. <i>Applied Physics Express</i> , 2019 , 12, 121003	2.4	6
105	Bandgap narrowing and Mott transition in Si-doped Al _{0.7} Ga _{0.3} N. <i>Applied Physics Letters</i> , 2019 , 114, 113501	3.4	6
104	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
103	GaN Heterostructure Barrier Diodes Exploiting Polarization-Induced δ -Doping. <i>IEEE Electron Device Letters</i> , 2014 , 35, 615-617	4.4	6

102	Time delay analysis in high speed gate-recessed E-mode InAlN HEMTs. <i>Solid-State Electronics</i> , 2013 , 80, 67-71	1.7	6
101	2013 ,		6
100	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
99	Performance evaluation of silicon and gallium nitride power FETs for DC/DC power converter applications 2010 ,		6
98	GaN/AlN p-channel HFETs with $I_{max} > 420$ mA/mm and ~ 20 GHz f_T / f_{MAX} 2020 ,		6
97	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
96	Thermal design of multi-fin Ga ₂ O ₃ vertical transistors. <i>Applied Physics Letters</i> , 2021 , 119, 103502	3.4	6
95	Unique opportunity to harness polarization in GaN to override the conventional power electronics figure-of-merits 2015 ,		5
94	Multiferroic LuFeO ₃ on GaN by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2020 , 116, 102901	3.4	5
93	Graphene nanoribbon FETs for digital electronics: experiment and modeling. <i>International Journal of Circuit Theory and Applications</i> , 2013 , 41, 603-607	2	5
92	GaN vertical nanowire and fin power MISFETs 2017 ,		5
91	Terahertz plasmonic properties of highly oriented pyrolytic graphite. <i>Applied Physics Letters</i> , 2013 , 102, 171107	3.4	5
90	Self-aligned InAs/Al _{0.45} Ga _{0.55} Sb vertical tunnel FETs 2011 ,		5
89	Monolithically integrated E/D-mode InAlN HEMTs with $f_T/f_{max} > 200/220$ GHz 2012 ,		5
88	Ultra-thin Body GaN-on-insulator nFETs and pFETs: Towards III-nitride complementary logic 2012 ,		5
87	High field transport properties of 2D and nanoribbon graphene FETs 2009 ,		5
86	n-AlGaAs/p-GaAs/n-GaN heterojunction bipolar transistor wafer-fused at 550 \pm 50 $^{\circ}$ C. <i>Applied Physics Letters</i> , 2003 , 83, 560-562	3.4	5
85	A unified thermionic and thermionic-field emission (TE \square FE) model for ideal Schottky reverse-bias leakage current. <i>Journal of Applied Physics</i> , 2022 , 131, 015702	2.5	5

84	Infrared dielectric functions and Brillouin zone center phonons of Ga ₂ O ₃ compared to Al ₂ O ₃ . <i>Physical Review Materials</i> , 2022 , 6,	3.2	5
83	Nitride LEDs and Lasers with Buried Tunnel Junctions. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 015018	2	5
82	N-polar GaN/AlN resonant tunneling diodes. <i>Applied Physics Letters</i> , 2020 , 117, 143501	3.4	5
81	Light-emitting diodes with AlN polarization-induced buried tunnel junctions: A second look. <i>Applied Physics Letters</i> , 2020 , 117, 061104	3.4	5
80	MBE growth and donor doping of coherent ultrawide bandgap AlGa _N alloy layers on single-crystal AlN substrates. <i>Applied Physics Letters</i> , 2021 , 118, 092101	3.4	5
79	ON-Resistance of Ga ₂ O ₃ Trench-MOS Schottky Barrier Diodes: Role of Sidewall Interface Trapping. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 2420-2426	2.9	5
78	Unexplored MBE growth mode reveals new properties of superconducting NbN. <i>Physical Review Materials</i> , 2021 , 5,	3.2	5
77	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
76	Epitaxial ScxAl _{1-x} N on GaN exhibits attractive high-K dielectric properties. <i>Applied Physics Letters</i> , 2022 , 120, 152901	3.4	5
75	Spin-orbit torque field-effect transistor (SOTFET): Proposal for a magnetoelectric memory. <i>Applied Physics Letters</i> , 2020 , 116, 242405	3.4	4
74	First demonstration of strained AlN/GaN/AlN quantum well FETs on SiC 2016 ,		4
73	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
72	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
71	4-NM AlN BARRIER ALL BINARY HFET WITH SiN _x GATE DIELECTRIC. <i>International Journal of High Speed Electronics and Systems</i> , 2009 , 19, 153-159	0.5	4
70	Very High Parallel-Plane Surface Electric Field of 4.3 MV/cm in Ga ₂ O ₃ Schottky Barrier Diodes with PtOx Contacts 2020 ,		4
69	Ultrafast dynamics of gallium vacancy charge states in Ga ₂ O ₃ . <i>Physical Review Research</i> , 2021 , 3,	3.9	4
68	Temperature-dependent Lowering of Coercive Field in 300 nm Sputtered Ferroelectric Al _{0.70} Sc _{0.30} N 2021 ,		4
67	Modeling and Circuit Design of Associative Memories With Spin-orbit Torque FETs. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2019 , 5, 197-205	2.4	4

66	An all-epitaxial nitride heterostructure with concurrent quantum Hall effect and superconductivity. <i>Science Advances</i> , 2021 , 7,	14.3	4
65	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
64	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
63	High-voltage polarization-induced vertical heterostructure p-n junction diodes on bulk GaN substrates 2015 ,		3
62	Magnetic properties of MBE grown Mn4N on MgO, SiC, GaN and Al2O3 substrates. <i>AIP Advances</i> , 2020 , 10, 015238	1.5	3
61	Challenges and Opportunities in Molecular Beam Epitaxy Growth of 2D Crystals 2018 , 443-485		3
60	Exfoliated MoTe2 field-effect transistor 2013 ,		3
59	Design, fabrication and characterization of 585 GHz integrated focal-plane arrays based on heterostructure backward diodes 2014 ,		3
58	Vertical heterojunction of MoS2 and WSe2 2014 ,		3
57	Barrier height, interface charge & tunneling effective mass in ALD Al2O3/AlN/GaN HEMTs 2011 ,		3
56	Very High Density (>10 ¹⁴ cm ⁻²) Polarization-Induced 2D Hole Gases Observed in Undoped Pseudomorphic InGaN/AlN Heterostructures. <i>Advanced Electronic Materials</i> ,2101120	6.4	3
55	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
54	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
53	Enhanced efficiency in bottom tunnel junction InGaN blue LEDs 2021 ,		3
52	Strong effect of scandium source purity on chemical and electronic properties of epitaxial ScxAl1-xN/GaN heterostructures. <i>APL Materials</i> , 2021 , 9, 091106	5.7	3
51	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
50	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
49	Full-wave hydrodynamic model for predicting THz emission from grating-gate RTD-gated plasma wave HEMTs 2015 ,		2

48	Gallium nitride tunneling field-effect transistors exploiting polarization fields. <i>Applied Physics Letters</i> , 2020 , 116, 073502	3.4	2
47	Demonstration of GaN HyperFETs with ALD VO ₂ 2016 ,		2
46	Chemical mechanical planarization of gold. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014 , 32, 021402	2.9	2
45	GaN lateral PolarSJs: Polarization-doped super junctions 2014 ,		2
44	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
43	Wide-bandgap Gallium Nitride p-channel MISFETs with enhanced performance at high temperature 2017 ,		2
42	Extended Defect Propagation in Highly Tensile-Strained Ge Waveguides. <i>Crystals</i> , 2017 , 7, 157	2.3	2
41	Electron transport in 2D crystal semiconductors and their device applications 2014 ,		2
40	First demonstration of two-dimensional WS ₂ transistors exhibiting 105 room temperature modulation and ambipolar behavior 2012 ,		2
39	Effect of optical phonon scattering on the performance limits of ultrafast GaN transistors 2011 ,		2
38	Breakdown Mechanisms in Ga ₂ O ₃ Trench-MOS Schottky-Barrier Diodes. <i>IEEE Transactions on Electron Devices</i> , 2022 , 69, 75-81	2.9	2
37	Monolithically p-down nitride laser diodes and LEDs obtained by MBE using buried tunnel junction design 2020 ,		2
36	Bottom tunnel junction blue light-emitting field-effect transistors. <i>Applied Physics Letters</i> , 2020 , 117, 031107	3.4	2
35	Advanced concepts in Ga ₂ O ₃ power and RF devices. <i>Semiconductors and Semimetals</i> , 2021 , 107, 23-47	0.6	2
34	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
33	Optically pumped deep-UV multimode lasing in AlGa _N double heterostructure grown by molecular beam homoepitaxy. <i>AIP Advances</i> , 2022 , 12, 035023	1.5	2
32	Magnetotransport and superconductivity in InBi films grown on Si(111) by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2019 , 126, 103901	2.5	1
31	Deep-UV LEDs using polarization-induced doping: Electroluminescence at cryogenic temperatures 2015 ,		1

30	. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 3978-3982	2.9	1
29	Layered two-dimensional selenides and tellurides grown by molecular beam epitaxy 2020 , 235-269		1
28	S-shaped negative differential resistance in III-Nitride blue quantum-well laser diodes grown by plasma-assisted MBE 2017 ,		1
27	Approaching real-time terahertz imaging using photo-induced reconfigurable aperture arrays 2014 ,		1
26	Tunnel FETs with tunneling normal to the gate 2013 ,		1
25	Nanomembrane InGa_2O_3 high-voltage field effect transistors 2013 ,		1
24	Near-field enhanced graphene terahertz modulator 2013 ,		1
23	High performance E-mode InAlN/GaN HEMTs: Interface states from subthreshold slopes 2010 ,		1
22	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
21	High thermal conductivity and ultrahigh thermal boundary conductance of homoepitaxial AlN thin films. <i>APL Materials</i> , 2022 , 10, 011115	5.7	1
20	Demonstration of AlGaIn-delta-GaN QW by plasma-assisted molecular beam epitaxy for 260-nm ultraviolet light emitting diodes 2018 ,		1
19	GaN/AlGaIn 2DEGs in the quantum regime: Magneto-transport and photoluminescence to 60 tesla. <i>Applied Physics Letters</i> , 2020 , 117, 262105	3.4	1
18	Resonant Tunneling Transport in Polar III-Nitride Heterostructures 2020 , 215-247		1
17	Comparing buffer leakage in PolarMOSH on SiC and free-standing GaN substrates 2016 ,		1
16	Materials Relevant to Realizing a Field-Effect Transistor Based on SpinOrbit Torques. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2019 , 5, 158-165	2.4	1
15	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
14	Dislocation and indium droplet related emission inhomogeneities in InGaIn LEDs. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 495106	3	1
13	Infrared-active phonon modes and static dielectric constants in $\text{In}_{1-x}\text{Al}_x\text{Ga}_{1-x}\text{In}_x\text{O}_3$ (0.18 x 0.54) alloys. <i>Applied Physics Letters</i> , 2022 , 120, 112202	3.4	1

12	Quantitative scanning microwave microscopy of 2D electron and hole gases in AlN/GaN heterostructures. <i>Applied Physics Letters</i> , 2022 , 120, 012103	3-4	○
11	Epitaxial Ferrimagnetic Mn ₄ N Thin Films on GaN by Molecular Beam Epitaxy. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	○
10	Distributed polarization-doped GaN p ⁺ n diodes with near-unity ideality factor and avalanche breakdown voltage of 1.25 kV. <i>Applied Physics Letters</i> , 2022 , 120, 122111	3-4	○
9	Structural and electronic properties of NbN/GaN junctions grown by molecular beam epitaxy. <i>APL Materials</i> , 2022 , 10, 051103	5-7	○
8	Response to Comment on Resonant 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	
7	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		
6	Polarization-Induced 3-Dimensional Electron Slabs in Graded AlGa _{1-x} N Layers. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 892, 375		
5	The First Wafer-fused AlGaAs-GaAs-GaN Heterojunction Bipolar Transistor. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 743, L12.10.1		
4	Photoelectric Generation Coefficient of B-Gallium Oxide during Exposure to High-Energy Ionizing Radiation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 2100700	1-6	
3	Nucleation, growth, and stability of WSe ₂ 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	
2	Field-Effect Transistors 5. <i>Springer Series in Materials Science</i> , 2020 , 639-660	0-9	
1	4-NM AlN BARRIER ALL BINARY HFET WITH SiN _x GATE DIELECTRIC. <i>Selected Topics in Electronics and Systems</i> , 2009 , 153-159		○