

Debdeep Jena

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286
papers

10,639
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53
h-index

94
g-index

322
ext. papers

12,390
ext. citations

4.3
avg, IF

6.53
L-index

#	Paper	IF	Citations
286	Two-dimensional semiconductors for transistors. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	670
285	Polarization-induced hole doping in wide-band-gap uniaxial semiconductor heterostructures. <i>Science</i> , 2010 , 327, 60-4	33.3	534
284	Ultrawide-Bandgap Semiconductors: Research Opportunities and Challenges. <i>Advanced Electronic Materials</i> , 2018 , 4, 1600501	6.4	520
283	Enhancement of carrier mobility in semiconductor nanostructures by dielectric engineering. <i>Physical Review Letters</i> , 2007 , 98, 136805	7.4	330
282	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
281	High-voltage field effect transistors with wide-bandgap AlGa_2O_3 nanomembranes. <i>Applied Physics Letters</i> , 2014 , 104, 203111	3.4	242
280	Esaki Diodes in van der Waals Heterojunctions with Broken-Gap Energy Band Alignment. <i>Nano Letters</i> , 2015 , 15, 5791-8	11.5	237
279	Intrinsic electron mobility limits in AlGa_2O_3 . <i>Applied Physics Letters</i> , 2016 , 109, 212101	3.4	223
278	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
277	High-mobility window for two-dimensional electron gases at ultrathin AlN/GaN heterojunctions. <i>Applied Physics Letters</i> , 2007 , 90, 182112	3.4	212
276	Dislocation scattering in a two-dimensional electron gas. <i>Applied Physics Letters</i> , 2000 , 76, 1707-1709	3.4	198
275	Enhancement-Mode Ga_2O_3 Vertical Transistors With Breakdown Voltage >1 kV. <i>IEEE Electron Device Letters</i> , 2018 , 39, 869-872	4.4	166
274	Graphene Nanoribbon Tunnel Transistors. <i>IEEE Electron Device Letters</i> , 2008 , 29, 1344-1346	4.4	163
273	Unique prospects for graphene-based terahertz modulators. <i>Applied Physics Letters</i> , 2011 , 99, 113104	3.4	149
272	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
271	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
270	. <i>IEEE Electron Device Letters</i> , 2015 , 36, 375-377	4.4	126

269	Single-particle tunneling in doped graphene-insulator-graphene junctions. <i>Journal of Applied Physics</i> , 2012 , 111, 043711	2.5	126
268	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
267	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
266	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
265	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
264	Polarization-induced Zener tunnel junctions in wide-band-gap heterostructures. <i>Physical Review Letters</i> , 2009 , 103, 026801	7.4	107
263	Adsorption-controlled growth of La-doped BaSnO ₃ by molecular-beam epitaxy. <i>APL Materials</i> , 2017 , 5, 116107	5.7	98
262	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
261	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
260	2D crystal semiconductors: Intimate contacts. <i>Nature Materials</i> , 2014 , 13, 1076-8	27	90
259	. <i>IEEE Electron Device Letters</i> , 2012 , 33, 525-527	4.4	89
258	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
257	Efficient terahertz electro-absorption modulation employing graphene plasmonic structures. <i>Applied Physics Letters</i> , 2012 , 101, 261115	3.4	86
256	MBE-grown 232 \times 70 nm deep-UV LEDs using monolayer thin binary GaN/AlN quantum heterostructures. <i>Applied Physics Letters</i> , 2017 , 110, 041108	3.4	85
255	GaN/NbN epitaxial semiconductor/superconductor heterostructures. <i>Nature</i> , 2018 , 555, 183-189	50.4	83
254	SymFET: A Proposed Symmetric Graphene Tunneling Field-Effect Transistor. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 951-957	2.9	82
253	Intrinsic Mobility Limiting Mechanisms in Lanthanum-Doped Strontium Titanate. <i>Physical Review Letters</i> , 2014 , 112,	7.4	78
252	Effect of Optical Phonon Scattering on the Performance of GaN Transistors. <i>IEEE Electron Device Letters</i> , 2012 , 33, 709-711	4.4	76

251	AlGa _N /Ga _N polarization-doped field-effect transistor for microwave power applications. <i>Applied Physics Letters</i> , 2004 , 84, 1591-1593	3.4	74
250	High-performance photocurrent generation from two-dimensional WS ₂ field-effect transistors. <i>Applied Physics Letters</i> , 2014 , 104, 193113	3.4	72
249	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
248	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
247	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
246	Graphene nanoribbon field-effect transistors on wafer-scale epitaxial graphene on SiC substrates a. <i>APL Materials</i> , 2015 , 3, 011101	5.7	63
245	1230 V EGa ₂ O ₃ trench Schottky barrier diodes with an ultra-low leakage current of . <i>Applied Physics Letters</i> , 2018 , 113, 202101	3.4	61
244	. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 1635-1641	2.9	58
243	Layered transition metal dichalcogenides: promising near-lattice-matched substrates for Ga _N growth. <i>Scientific Reports</i> , 2016 , 6, 23708	4.9	58
242	220-GHz Quaternary Barrier InAlGa _N /Al _N /Ga _N HEMTs. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1215-1217	4.4	58
241	A polarization-induced 2D hole gas in undoped gallium nitride quantum wells. <i>Science</i> , 2019 , 365, 1454-1457	3.5	57
240	. <i>IEEE Electron Device Letters</i> , 2011 , 32, 309-311	4.4	57
239	Hot Electron Transistor with van der Waals Base-Collector Heterojunction and High-Performance Ga _N Emitter. <i>Nano Letters</i> , 2017 , 17, 3089-3096	11.5	55
238	Ultrascaled InAl _N /Ga _N High Electron Mobility Transistors with Cutoff Frequency of 400 GHz. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JN14	1.4	55
237	N-polar III-nitride quantum well light-emitting diodes with polarization-induced doping. <i>Applied Physics Letters</i> , 2011 , 99, 171104	3.4	55
236	Polarization-Engineered III-Nitride Heterojunction Tunnel Field-Effect Transistors. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2015 , 1, 28-34	2.4	54
235	Hot phonon effect on electron velocity saturation in Ga _N : A second look. <i>Applied Physics Letters</i> , 2007 , 91, 252104	3.4	53
234	Deep ultraviolet emission from ultra-thin Ga _N /Al _N heterostructures. <i>Applied Physics Letters</i> , 2016 , 109, 241102	3.4	53

233	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
232	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
231	CdSe nanowires with illumination-enhanced conductivity: Induced dipoles, dielectrophoretic assembly, and field-sensitive emission. <i>Journal of Applied Physics</i> , 2007 , 101, 073704	2.5	48
230	Polarization effects on gate leakage in InAlN/AlN/GaN high-electron-mobility transistors. <i>Applied Physics Letters</i> , 2012 , 101, 253519	3.4	47
229	High Breakdown Voltage in RF AlN/GaN/AlN Quantum Well HEMTs. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1293-1296	4.4	46
228	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
227	Green luminescence of InGaN nanowires grown on silicon substrates by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2011 , 109, 084336	2.5	46
226	Effect of scattering by strain fields surrounding edge dislocations on electron transport in two-dimensional electron gases. <i>Applied Physics Letters</i> , 2002 , 80, 64-66	3.4	46
225	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
224	High breakdown single-crystal GaN p-n diodes by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2015 , 107, 232101	3.4	44
223	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
222	Conduction band offset at the InN/GaN heterojunction. <i>Applied Physics Letters</i> , 2007 , 91, 232117	3.4	43
221	Near-ideal reverse leakage current and practical maximum electric field in EgGa_2O_3 Schottky barrier diodes. <i>Applied Physics Letters</i> , 2020 , 116, 192101	3.4	42
220	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
219	Deep-UV emission at 219 nm from ultrathin MBE GaN/AlN quantum heterostructures. <i>Applied Physics Letters</i> , 2017 , 111, 091104	3.4	42
218	Quaternary Barrier InAlGaN HEMTs With $f_{\text{T}}/f_{\text{max}}$ of 230/300 GHz. <i>IEEE Electron Device Letters</i> , 2013 , 34, 378-380	4.4	42
217	Thermal conductivity of crystalline AlN and the influence of atomic-scale defects. <i>Journal of Applied Physics</i> , 2019 , 126, 185105	2.5	42
216	Hole mobility of strained GaN from first principles. <i>Physical Review B</i> , 2019 , 100,	3.3	38

215	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
214	InGaN channel high electron mobility transistor structures grown by metal organic chemical vapor deposition. <i>Applied Physics Letters</i> , 2012 , 100, 121909	3-4	38
213	High-performance few-layer-MoS ₂ field-effect-transistor with record low contact-resistance 2013 ,		38
212	Carrier transport and confinement in polarization-induced three-dimensional electron slabs: Importance of alloy scattering in AlGa _N . <i>Applied Physics Letters</i> , 2006 , 88, 042109	3-4	38
211	Prospects for Wide Bandgap and Ultrawide Bandgap CMOS Devices. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 4010-4020	2-9	38
210	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
209	Polarization-engineered removal of buffer leakage for GaN transistors. <i>Applied Physics Letters</i> , 2010 , 96, 042102	3-4	36
208	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
207	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
206	Crystal orientation dictated epitaxy of ultrawide-bandgap 5.4- to 8.6-eV β -(AlGa)O on m-plane sapphire. <i>Science Advances</i> , 2021 , 7,	14-3	35
205	Inductively-coupled-plasma reactive ion etching of single-crystal β -Ga ₂ O ₃ . <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 030304	1-4	34
204	Strained GaN quantum-well FETs on single crystal bulk AlN substrates. <i>Applied Physics Letters</i> , 2017 , 110, 063501	3-4	34
203	New Tunneling Features in Polar III-Nitride Resonant Tunneling Diodes. <i>Physical Review X</i> , 2017 , 7,	9-1	34
202	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
201	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
200	Electron Transport in III-V Nitride Two-Dimensional Electron Gases. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 228, 617-619	1-3	34
199	Comparative study of chemically synthesized and exfoliated multilayer MoS ₂ field-effect transistors. <i>Applied Physics Letters</i> , 2013 , 102, 043116	3-4	33
198	A computational study of metal-contacts to beyond-graphene 2D semiconductor materials 2012 ,		33

197	Electron mobility in graded AlGa _N alloys. <i>Applied Physics Letters</i> , 2006 , 88, 042103	3-4	33
196	Development of GaN Vertical Trench-MOSFET With MBE Regrown Channel. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 2558-2564	2-9	32
195	Effect of dislocation scattering on the transport properties of InN grown on GaN substrates by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2006 , 89, 162110	3-4	32
194	Dipole scattering in polarization induced III ^V nitride two-dimensional electron gases. <i>Journal of Applied Physics</i> , 2000 , 88, 4734	2-5	32
193	Route to High Hole Mobility in GaN via Reversal of Crystal-Field Splitting. <i>Physical Review Letters</i> , 2019 , 123, 096602	7-4	31
192	InGa _N Channel High-Electron-Mobility Transistors with InAlGa _N Barrier and f_T/f_{max} of 260/220 GHz. <i>Applied Physics Express</i> , 2013 , 6, 016503	2-4	30
191	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
190	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
189	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
188	Polarization-induced Zener tunnel diodes in GaN/InGa _N /GaN heterojunctions. <i>Applied Physics Letters</i> , 2015 , 107, 163504	3-4	27
187	Ultrathin CdSe nanowire field-effect transistors. <i>Journal of Electronic Materials</i> , 2006 , 35, 170-172	1-9	27
186	Ultralow-Leakage AlGa _N /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
185	Guiding Principles for Trench Schottky Barrier Diodes Based on Ultrawide Bandgap Semiconductors: A Case Study in Ga ₂ O ₃ . <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 3938-3947	2-9	26
184	Activation of buried p-GaN in MOCVD-regrown vertical structures. <i>Applied Physics Letters</i> , 2018 , 113, 062105	3-4	25
183	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
182	Quantum and classical scattering times due to charged dislocations in an impure electron gas. <i>Physical Review B</i> , 2002 , 66,	3-3	25
181	Room temperature weak ferromagnetism in Sn _{1-x} Mn _x Se ₂ 2D films grown by molecular beam epitaxy. <i>APL Materials</i> , 2016 , 4, 032601	5-7	25
180	On the possibility of sub 60 mV/decade subthreshold switching in piezoelectric gate barrier transistors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013 , 10, 1469-1472		24

179	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
178	2019 ,		23
177	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
176	Charged basal stacking fault scattering in nitride semiconductors. <i>Applied Physics Letters</i> , 2011 , 98, 022109	3.9	21
175	Dipole scattering in highly polar semiconductor alloys. <i>Journal of Applied Physics</i> , 2004 , 96, 2095-2101	2.5	21
174	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
173	Explanation of anomalously high current gain observed in GaN based bipolar transistors. <i>IEEE Electron Device Letters</i> , 2003 , 24, 4-6	4.4	20
172	1.6 kV Vertical Ga ₂ O ₃ FinFETs With Source-Connected Field Plates and Normally-off Operation 2019 ,		19
171	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
170	Phototransistors: High-Detectivity Multilayer MoS ₂ Phototransistors with Spectral Response from Ultraviolet to Infrared (Adv. Mater. 43/2012). <i>Advanced Materials</i> , 2012 , 24, 5902-5902	24	19
169	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
168	Low temperature AlN growth by MBE and its application in HEMTs. <i>Journal of Crystal Growth</i> , 2015 , 425, 133-137	1.6	18
167	Room-Temperature Graphene-Nanoribbon Tunneling Field-Effect Transistors. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	18
166	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
165	Effect of p-doped overlayer thickness on RF-dispersion in GaN junction FETs. <i>IEEE Electron Device Letters</i> , 2002 , 23, 306-308	4.4	18
164	Significantly reduced thermal conductivity in (Al _{0.1} Ga _{0.9}) ₂ O ₃ /Ga ₂ O ₃ superlattices. <i>Applied Physics Letters</i> , 2019 , 115, 092105	3.4	17
163	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
162	Molecular beam homoepitaxy on bulk AlN enabled by aluminum-assisted surface cleaning. <i>Applied Physics Letters</i> , 2020 , 116, 172106	3.4	17

161	Surface control and MBE growth diagram for homoepitaxy on single-crystal AlN substrates. <i>Applied Physics Letters</i> , 2020 , 116, 262102	3.4	17
160	Atomic Structure of Thin MoSe ₂ Films Grown by Molecular Beam Epitaxy. <i>Microscopy and Microanalysis</i> , 2014 , 20, 164-165	0.5	17
159	Next generation electronics on the ultrawide-bandgap aluminum nitride platform. <i>Semiconductor Science and Technology</i> , 2021 , 36, 044001	1.8	17
158	GaN/AlN Schottky-gate p-channel HFETs with InGaN contacts and 100 mA/mm on-current 2019 ,		17
157	Fully transparent field-effect transistor with high drain current and on-off ratio. <i>APL Materials</i> , 2020 , 8, 011110	5.7	16
156	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
155	First-principles study of high-field-related electronic behavior of group-III nitrides. <i>Physical Review B</i> , 2014 , 90,	3.3	15
154	Rotationally aligned hexagonal boron nitride on sapphire by high-temperature molecular beam epitaxy. <i>Physical Review Materials</i> , 2019 , 3,	3.2	15
153	Structural and piezoelectric properties of ultra-thin ScxAl1-xN films grown on GaN by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2020 , 117, 112101	3.4	15
152	Wurtzite phonons and the mobility of a GaN/AlN 2D hole gas. <i>Applied Physics Letters</i> , 2019 , 114, 253501	3.4	14
151	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
150	Molecular beam epitaxial growth of scandium nitride on hexagonal SiC, GaN, and AlN. <i>Applied Physics Letters</i> , 2019 , 115, 172101	3.4	14
149	Steep subthreshold swing tunnel FETs: GaN/InN/GaN and transition metal dichalcogenide channels 2015 ,		14
148	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
147	Short-period AlN/GaN p-type superlattices: hole transport use in p-n junctions. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2386-2389		14
146	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
145	Thermionic emission or tunneling? The universal transition electric field for ideal Schottky reverse leakage current: A case study in EGa ₂ O ₃ . <i>Applied Physics Letters</i> , 2020 , 117, 222104	3.4	14
144	Measurement of ultrafast dynamics of photoexcited carriers in EGa ₂ O ₃ by two-color optical pump-probe spectroscopy. <i>Applied Physics Letters</i> , 2018 , 113, 252102	3.4	14

143	Perspectives of TFETs for low power analog ICs 2012 ,		13
142	Influence of Metal/Graphene Contact on the Operation and Scalability of Graphene Field-Effect Transistors. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 3170-3178	2.9	13
141	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
140	Two-dimensional heterojunction interlayer tunnel FET (Thin-TFET): From theory to applications 2016 ,		13
139	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
138	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
137	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
136	Top-down AlN/GaN enhancement- & depletion-mode nanoribbon HEMTs 2009 ,		12
135	Enhanced injection efficiency and light output in bottom tunnel-junction light-emitting diodes. <i>Optics Express</i> , 2020 , 28, 4489-4500	3.3	12
134	Epitaxial niobium nitride superconducting nanowire single-photon detectors. <i>Applied Physics Letters</i> , 2020 , 117, 132601	3.4	12
133	. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 3954-3959	2.9	12
132	Anisotropic dielectric functions, band-to-band transitions, and critical points in EGa ₂ O ₃ . <i>Applied Physics Letters</i> , 2021 , 118, 062103	3.4	12
131	Determination of the Mott-Hubbard gap in GdT ₂ O ₃ . <i>Physical Review B</i> , 2015 , 92,	3.3	11
130	Steep Sub-Boltzmann Switching in AlGa _n /GaN Phase-FETs With ALD VO ₂ . <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 945-949	2.9	11
129	Surface potential analysis of AlN/GaN heterostructures by electrochemical capacitance-voltage measurements. <i>Journal of Applied Physics</i> , 2012 , 112, 074508	2.5	11
128	Stark-effect scattering in rough quantum wells. <i>Applied Physics Letters</i> , 2011 , 99, 012104	3.4	11
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