Debdeep Jena

List of Publications by Year in Descending Order

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

 286
 10,639
 53
 94

 papers
 citations
 h-index
 g-index

 322
 12,390
 4.3
 6.53

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
286	Breakdown Mechanisms in EGa2O3 Trench-MOS Schottky-Barrier Diodes. <i>IEEE Transactions on Electron Devices</i> , 2022 , 69, 75-81	2.9	2
285	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
284	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
283	High thermal conductivity and ultrahigh thermal boundary conductance of homoepitaxial AlN thin films. <i>APL Materials</i> , 2022 , 10, 011115	5.7	1
282	Infrared dielectric functions and Brillouin zone center phonons of £ a2O3 compared to E Al2O3. Physical Review Materials, 2022 , 6,	3.2	5
281	Distributed polarization-doped GaN pfi diodes with near-unity ideality factor and avalanche breakdown voltage of 1.25 kV. <i>Applied Physics Letters</i> , 2022 , 120, 122111	3.4	О
280	Infrared-active phonon modes and static dielectric constants in E(AlxGa1日)2O3 (0.18 次 亿.54) alloys. <i>Applied Physics Letters</i> , 2022 , 120, 112202	3.4	1
279	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
278	Epitaxial ScxAl1NN on GaN exhibits attractive high-K dielectric properties. <i>Applied Physics Letters</i> , 2022 , 120, 152901	3.4	5
277	Structural and electronic properties of NbN/GaN junctions grown by molecular beam epitaxy. <i>APL Materials</i> , 2022 , 10, 051103	5.7	0
276	Tight-binding band structure of Band Phase Ga2O3 and Al2O3. <i>Journal of Applied Physics</i> , 2022 , 131, 175702	2.5	
275	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
274	Adsorption-controlled growth of Ga2O3 by suboxide molecular-beam epitaxy. <i>APL Materials</i> , 2021 , 9, 031101	5.7	11
273	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
272	Enhanced efficiency in bottom tunnel junction InGaN blue LEDs 2021,		3
271	Next generation electronics on the ultrawide-bandgap aluminum nitride platform. <i>Semiconductor Science and Technology</i> , 2021 , 36, 044001	1.8	17
270	Ultrafast dynamics of gallium vacancy charge states in G a2O3. <i>Physical Review Research</i> , 2021 , 3,	3.9	4

(2021-2021)

269	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	
268	ON-Resistance of Ga2O3 Trench-MOS Schottky Barrier Diodes: Role of Sidewall Interface Trapping. IEEE Transactions on Electron Devices, 2021 , 68, 2420-2426	2.9	5	
267	Temperature-dependent Lowering of Coercive Field in 300 nm Sputtered Ferroelectric Alo.70Sc0.30N 2021 ,		4	
266	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	
265	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	
264	Crystal orientation dictated epitaxy of ultrawide-bandgap 5.4- to 8.6-eV E(AlGa)O on m-plane sapphire. <i>Science Advances</i> , 2021 , 7,	14.3	35	
263	Advanced concepts in Ga2O3 power and RF devices. Semiconductors and Semimetals, 2021, 107, 23-47	0.6	2	
262	Epitaxial Ferrimagnetic Mn4N Thin Films on GaN by Molecular Beam Epitaxy. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	Ο	
261	An all-epitaxial nitride heterostructure with concurrent quantum Hall effect and superconductivity. <i>Science Advances</i> , 2021 , 7,	14.3	4	
260	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	
259	Anisotropic dielectric functions, band-to-band transitions, and critical points in £Ga2O3. <i>Applied Physics Letters</i> , 2021 , 118, 062103	3.4	12	
258	Unexplored MBE growth mode reveals new properties of superconducting NbN. <i>Physical Review Materials</i> , 2021 , 5,	3.2	5	
257	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	
256	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	
255	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	
254	Dislocation and indium droplet related emission inhomogeneities in InGaN LEDs. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 495106	3	1	
253	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	
252	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	

251	Molecular beam homoepitaxy on bulk AlN enabled by aluminum-assisted surface cleaning. <i>Applied Physics Letters</i> , 2020 , 116, 172106	3.4	17
250	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
249	SpinBrbit torque field-effect transistor (SOTFET): Proposal for a magnetoelectric memory. <i>Applied Physics Letters</i> , 2020 , 116, 242405	3.4	4
248	. IEEE Transactions on Electron Devices, 2020 , 67, 3978-3982	2.9	1
247	Fighting Broken Symmetry with Doping: Toward Polar Resonant Tunneling Diodes with Symmetric Characteristics. <i>Physical Review Applied</i> , 2020 , 13,	4.3	8
246	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
245	All-Epitaxial Bulk Acoustic Wave Resonators. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900786	1.6	8
244	Multiferroic LuFeO3 on GaN by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2020 , 116, 102901	3.4	5
243	Surface control and MBE growth diagram for homoepitaxy on single-crystal AlN substrates. <i>Applied Physics Letters</i> , 2020 , 116, 262102	3.4	17
242	Magnetic properties of MBE grown Mn4N on MgO, SiC, GaN and Al2O3 substrates. <i>AIP Advances</i> , 2020 , 10, 015238	1.5	3
241	Gallium nitride tunneling field-effect transistors exploiting polarization fields. <i>Applied Physics Letters</i> , 2020 , 116, 073502	3.4	2
240	Fully transparent field-effect transistor with high drain current and on-off ratio. <i>APL Materials</i> , 2020 , 8, 011110	5.7	16
239	GaN/AlN p-channel HFETs with Imax >420 mA/mm and ~20 GHz fT / fMAX 2020 ,		6
238	Monolithically p-down nitride laser diodes and LEDs obtained by MBE using buried tunnel junction design 2020 ,		2
237	Enhanced injection efficiency and light output in bottom tunnel-junction light-emitting diodes. <i>Optics Express</i> , 2020 , 28, 4489-4500	3.3	12
236	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
235	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
234	Resonant Tunneling Transport in Polar III-Nitride Heterostructures 2020 , 215-247		1

(2019-2020)

233	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	
232	Oxygen Incorporation in the Molecular Beam Epitaxy Growth of ScxGa1NN and ScxAl1NN. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900612	1.3	19	
231	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	
230	Nitride LEDs and Lasers with Buried Tunnel Junctions. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 015018	2	5	
229	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	
228	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	
227	Epitaxial niobium nitride superconducting nanowire single-photon detectors. <i>Applied Physics Letters</i> , 2020 , 117, 132601	3.4	12	
226	N-polar GaN/AlN resonant tunneling diodes. <i>Applied Physics Letters</i> , 2020 , 117, 143501	3.4	5	
225	Guiding Principles for Trench Schottky Barrier Diodes Based on Ultrawide Bandgap Semiconductors: A Case Study in GaDI <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 3938-3947	2.9	26	
224	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	
223	Prospects for Wide Bandgap and Ultrawide Bandgap CMOS Devices. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 4010-4020	2.9	38	
222	Bottom tunnel junction blue light-emitting field-effect transistors. <i>Applied Physics Letters</i> , 2020 , 117, 031107	3.4	2	
221	Very High Parallel-Plane Surface Electric Field of 4.3 MV/cm in Ga2O3 Schottky Barrier Diodes with PtOx Contacts 2020 ,		4	
220	Light-emitting diodes with AlN polarization-induced buried tunnel junctions: A second look. <i>Applied Physics Letters</i> , 2020 , 117, 061104	3.4	5	
219	Structural and piezoelectric properties of ultra-thin ScxAl1N films grown on GaN by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2020 , 117, 112101	3.4	15	
218	. IEEE Transactions on Electron Devices, 2020 , 67, 3954-3959	2.9	12	
217	Intra- and inter-conduction band optical absorption processes in EGa2O3. <i>Applied Physics Letters</i> , 2020 , 117, 072103	3.4	8	
216	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	

215	Hole mobility of strained GaN from first principles. <i>Physical Review B</i> , 2019 , 100,	3.3	38
214	Significantly reduced thermal conductivity in E(Al0.1Ga0.9)2O3/Ga2O3 superlattices. <i>Applied Physics Letters</i> , 2019 , 115, 092105	3.4	17
213	Route to High Hole Mobility in GaN via Reversal of Crystal-Field Splitting. <i>Physical Review Letters</i> , 2019 , 123, 096602	7.4	31
212	Magnetotransport and superconductivity in InBi films grown on Si(111) by molecular beam epitaxy. Journal of Applied Physics, 2019 , 126, 103901	2.5	1
211	A polarization-induced 2D hole gas in undoped gallium nitride quantum wells. <i>Science</i> , 2019 , 365, 1454-	-1457	57
210	Wurtzite phonons and the mobility of a GaN/AlN 2D hole gas. <i>Applied Physics Letters</i> , 2019 , 114, 25350	1 3.4	14
209	Polarization control in nitride quantum well light emitters enabled by bottom tunnel-junctions. Journal of Applied Physics, 2019 , 125, 203104	2.5	14
208	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
207	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
206	Blue (In,Ga)N light-emitting diodes with buried n + β + tunnel junctions by plasma-assisted molecular beam epitaxy. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 060914	1.4	3
205	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
204	Bandgap narrowing and Mott transition in Si-doped Al0.7Ga0.3N. <i>Applied Physics Letters</i> , 2019 , 114, 113	359041	6
203	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
202	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
201	1.6 kV Vertical Ga2O3 FinFETs With Source-Connected Field Plates and Normally-off Operation 2019 ,		19
200	High Breakdown Voltage in RF AlN/GaN/AlN Quantum Well HEMTs. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1293-1296	4.4	46
199	Molecular beam epitaxial growth of scandium nitride on hexagonal SiC, GaN, and AlN. <i>Applied Physics Letters</i> , 2019 , 115, 172101	3.4	14
198	. IEEE Transactions on Electron Devices, 2019 , 66, 4597-4603	2.9	8

(2018-2019)

197	Room-Temperature Graphene-Nanoribbon Tunneling Field-Effect Transistors. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	18
196	Rotationally aligned hexagonal boron nitride on sapphire by high-temperature molecular beam epitaxy. <i>Physical Review Materials</i> , 2019 , 3,	3.2	15
195	New physics in GaN resonant tunneling diodes 2019 ,		1
194	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
193	2019,		23
192	GaN/AlN Schottky-gate p-channel HFETs with InGaN contacts and 100 mA/mm on-current 2019 ,		17
191	Thermal conductivity of crystalline AlN and the influence of atomic-scale defects. <i>Journal of Applied Physics</i> , 2019 , 126, 185105	2.5	42
190	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
189	GaN/NbN epitaxial semiconductor/superconductor heterostructures. <i>Nature</i> , 2018 , 555, 183-189	50.4	83
188	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
187	75 Years of the Device Research Conference History Worth Repeating. <i>IEEE Journal of the Electron Devices Society</i> , 2018 , 6, 116-120	2.3	1
186	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
185	Development of GaN Vertical Trench-MOSFET With MBE Regrown Channel. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 2558-2564	2.9	32
184	Enhancement-Mode Ga2O3 Vertical Transistors With Breakdown Voltage >1 kV. <i>IEEE Electron Device Letters</i> , 2018 , 39, 869-872	4.4	166
183	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
182	Activation of buried p-GaN in MOCVD-regrown vertical structures. <i>Applied Physics Letters</i> , 2018 , 113, 062105	3.4	25
181	Ultrawide-Bandgap Semiconductors: Research Opportunities and Challenges. <i>Advanced Electronic Materials</i> , 2018 , 4, 1600501	6.4	520
180	2018,		7

179	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
178	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
177	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
176	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
175	1.5 kV Vertical Ga2O3 Trench-MIS Schottky Barrier Diodes 2018 ,		9
174	. IEEE Transactions on Electron Devices, 2017 , 64, 1635-1641	2.9	58
173	Inductively-coupled-plasma reactive ion etching of single-crystal EGa2O3. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 030304	1.4	34
172	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
171	Strained GaN quantum-well FETs on single crystal bulk AlN substrates. <i>Applied Physics Letters</i> , 2017 , 110, 063501	3.4	34
170	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
169	Hot Electron Transistor with van der Waals Base-Collector Heterojunction and High-Performance GaN Emitter. <i>Nano Letters</i> , 2017 , 17, 3089-3096	11.5	55
168	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
167	Electron mobility in polarization-doped Al0-0.2GaN with a low concentration near 1017 cmB. <i>Applied Physics Letters</i> , 2017 , 110, 182102	3.4	8
166	New Tunneling Features in Polar III-Nitride Resonant Tunneling Diodes. <i>Physical Review X</i> , 2017 , 7,	9.1	34
165	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
164	Deep-UV emission at 219 nm from ultrathin MBE GaN/AlN quantum heterostructures. <i>Applied Physics Letters</i> , 2017 , 111, 091104	3.4	42
163	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
162	Wide-bandgap Gallium Nitride p-channel MISFETs with enhanced performance at high temperature 2017 ,		2

(2015-2017)

161	S-shaped negative differential resistance in III-Nitride blue quantum-well laser diodes grown by plasma-assisted MBE 2017 ,		1	
160	Adsorption-controlled growth of La-doped BaSnO3 by molecular-beam epitaxy. <i>APL Materials</i> , 2017 , 5, 116107	5.7	98	
159	Demonstration of GaN HyperFETs with ALD VO2 2016 ,		2	
158	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	
157	Two-dimensional semiconductors for transistors. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	670	
156	Layered transition metal dichalcogenides: promising near-lattice-matched substrates for GaN growth. <i>Scientific Reports</i> , 2016 , 6, 23708	4.9	58	
155	First demonstration of strained AlN/GaN/AlN quantum well FETs on SiC 2016,		4	
154	Structural Properties of (Sn,Mn)Se 2 - a New 2D Magnetic Semiconductor with Potential for Spintronic Applications. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1512-1513	0.5	1	
153	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	
152	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	
151	Deep ultraviolet emission from ultra-thin GaN/AlN heterostructures. <i>Applied Physics Letters</i> , 2016 , 109, 241102	3.4	53	
150	Room temperature weak ferromagnetism in Sn1\(\text{M}\)MnxSe2 2D films grown by molecular beam epitaxy. <i>APL Materials</i> , 2016 , 4, 032601	5.7	25	
149	Novel III-N heterostructure devices for low-power logic and more 2016 ,		3	
148	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	
147	Intrinsic electron mobility limits in EGa2O3. Applied Physics Letters, 2016, 109, 212101	3.4	223	
146	Two-dimensional heterojunction interlayer tunnel FET (Thin-TFET): From theory to applications 2016 ,		13	
145	Comparing buffer leakage in PolarMOSH on SiC and free-standing GaN substrates 2016,		1	
144	Low temperature AlN growth by MBE and its application in HEMTs. <i>Journal of Crystal Growth</i> , 2015 , 425, 133-137	1.6	18	

143	Determination of the Mott-Hubbard gap in GdTiO3. Physical Review B, 2015, 92,	3.3	11
142	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
141	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
140	High-voltage polarization-induced vertical heterostructure p-n junction diodes on bulk GaN substrates 2015 ,		3
139	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
138	Unique opportunity to harness polarization in GaN to override the conventional power electronics figure-of-merits 2015 ,		5
137	Transistor Switches Using Active Piezoelectric Gate Barriers. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2015 , 1, 35-42	2.4	4
136	Esaki Diodes in van der Waals Heterojunctions with Broken-Gap Energy Band Alignment. <i>Nano Letters</i> , 2015 , 15, 5791-8	11.5	237
135	Deep-UV LEDs using polarization-induced doping: Electroluminescence at cryogenic temperatures 2015 ,		1
134	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
134		3.4	117 44
	breakdown. <i>Applied Physics Letters</i> , 2015 , 107, 243501 High breakdown single-crystal GaN p-n diodes by molecular beam epitaxy. <i>Applied Physics Letters</i> ,		
133	breakdown. <i>Applied Physics Letters</i> , 2015 , 107, 243501 High breakdown single-crystal GaN p-n diodes by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2015 , 107, 232101 Polarization-induced Zener tunnel diodes in GaN/InGaN/GaN heterojunctions. <i>Applied Physics</i>	3.4	44
133	breakdown. <i>Applied Physics Letters</i> , 2015 , 107, 243501 High breakdown single-crystal GaN p-n diodes by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2015 , 107, 232101 Polarization-induced Zener tunnel diodes in GaN/InGaN/GaN heterojunctions. <i>Applied Physics Letters</i> , 2015 , 107, 163504	3.4	27
133 132 131	High breakdown single-crystal GaN p-n diodes by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2015, 107, 232101 Polarization-induced Zener tunnel diodes in GaN/InGaN/GaN heterojunctions. <i>Applied Physics Letters</i> , 2015, 107, 163504 . <i>IEEE Electron Device Letters</i> , 2015, 36, 375-377 Steep subthreshold swing tunnel FETs: GaN/InN/GaN and transition metal dichalcogenide channels	3.4	27 126
133 132 131	High breakdown single-crystal GaN p-n diodes by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2015, 107, 232101 Polarization-induced Zener tunnel diodes in GaN/InGaN/GaN heterojunctions. <i>Applied Physics Letters</i> , 2015, 107, 163504 . <i>IEEE Electron Device Letters</i> , 2015, 36, 375-377 Steep subthreshold swing tunnel FETs: GaN/InN/GaN and transition metal dichalcogenide channels 2015, Graphene nanoribbon field-effect transistors on wafer-scale epitaxial graphene on SiC substrates a.	3·4 3·4 4·4	4427126
133 132 131 130	High breakdown single-crystal GaN p-n diodes by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2015, 107, 232101 Polarization-induced Zener tunnel diodes in GaN/InGaN/GaN heterojunctions. <i>Applied Physics Letters</i> , 2015, 107, 163504 . <i>IEEE Electron Device Letters</i> , 2015, 36, 375-377 Steep subthreshold swing tunnel FETs: GaN/InN/GaN and transition metal dichalcogenide channels 2015, Graphene nanoribbon field-effect transistors on wafer-scale epitaxial graphene on SiC substrates a. <i>APL Materials</i> , 2015, 3, 011101 Photoluminescence-Based Electron and Lattice Temperature Measurements in GaN-Based HEMTs.	3·4 3·4 4·4	44271261463

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