

Rachel Angharad Oliver

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7195244/rachel-angharad-oliver-publications-by-year.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

262 papers	4,590 citations	36 h-index	53 g-index
279 ext. papers	5,134 ext. citations	3.7 avg, IF	5.54 L-index

#	Paper	IF	Citations
262	Influence of Al _x Ga _{1-x} N nucleation layers on MOVPE-grown zincblende GaN epilayers on 3C-SiC/Si(001). <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 175110	3	1
261	Optical emission from focused ion beam milled halide perovskite device cross-sections.. <i>Microscopy Research and Technique</i> , 2022 ,	2.8	3
260	Investigation of wurtzite formation in MOVPE-grown zincblende GaN epilayers on Al _x Ga _{1-x} N nucleation layers. <i>Journal of Applied Physics</i> , 2022 , 131, 115703	2.5	1
259	Decreased Fast Time Scale Spectral Diffusion of a Nonpolar InGa _N Quantum Dot. <i>ACS Photonics</i> , 2022 , 9, 275-281	6.3	1
258	Photocurrent detection of radially polarized optical vortex with hot electrons in Au/GaN. <i>Applied Physics Letters</i> , 2022 , 120, 202101	3.4	
257	Nitride single photon sources. <i>Frontiers of Nanoscience</i> , 2021 , 439-471	0.7	
256	Dislocations at coalescence boundaries in heteroepitaxial GaN/sapphire studied after the epitaxial layer has completely coalesced. <i>Ultramicroscopy</i> , 2021 , 231, 113258	3.1	2
255	Defect structures in (001) zincblende GaN/3C-SiC nucleation layers. <i>Journal of Applied Physics</i> , 2021 , 129, 155306	2.5	6
254	Using pulsed mode scanning electron microscopy for cathodoluminescence studies on hybrid perovskite films. <i>Nano Express</i> , 2021 , 2, 024002	2	2
253	Effect of Micron-scale Photoluminescence Variation on Droop Measurements in InGa _N /Ga _N Quantum Wells. <i>Journal of Physics: Conference Series</i> , 2021 , 1919, 012011	0.3	
252	Photoluminescence efficiency of zincblende InGa _N /Ga _N quantum wells. <i>Journal of Applied Physics</i> , 2021 , 129, 175702	2.5	4
251	Pure single-photon emission from an InGa _N /Ga _N quantum dot. <i>APL Materials</i> , 2021 , 9, 061106	5.7	5
250	Thermal stress modelling of diamond on GaN/III-Nitride membranes. <i>Carbon</i> , 2021 , 174, 647-661	10.4	7
249	Gender issues in fundamental physics: Strumia's bibliometric analysis fails to account for key confounders and confuses correlation with causation. <i>Quantitative Science Studies</i> , 2021 , 2, 263-272	3.8	2
248	Origin(s) of Anomalous Substrate Conduction in MOVPE-Grown GaN HEMTs on Highly Resistive Silicon. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 813-824	4	3
247	Combined SEM-CL and STEM investigation of green InGa _N quantum wells. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 165107	3	
246	Directly correlated microscopy of trench defects in InGa _N quantum wells. <i>Ultramicroscopy</i> , 2021 , 231, 113255	3.1	1

245	The effect of thermal annealing on the optical properties of Mg-doped zincblende GaN epilayers. <i>Journal of Applied Physics</i> , 2021 , 130, 085705	2.5	2
244	Multimicroscopy of cross-section zincblende GaN LED heterostructure. <i>Journal of Applied Physics</i> , 2021 , 130, 115705	2.5	0
243	Effect of Si-doped InGaN underlayers on photoluminescence efficiency and recombination dynamics in InGaN/GaN quantum wells. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 475104	3	1
242	The relationship between the three-dimensional structure of porous GaN distributed Bragg reflectors and their birefringence. <i>Journal of Applied Physics</i> , 2020 , 127, 193101	2.5	4
241	Dislocations as channels for the fabrication of sub-surface porous GaN by electrochemical etching. <i>APL Materials</i> , 2020 , 8, 031115	5.7	7
240	Non-polar nitride single-photon sources. <i>Journal of Optics (United Kingdom)</i> , 2020 , 22, 073001	1.7	1
239	GaN-on-diamond technology platform: Bonding-free membrane manufacturing process. <i>AIP Advances</i> , 2020 , 10, 035306	1.5	8
238	Cross-shaped markers for the preparation of site-specific transmission electron microscopy lamellae using focused ion beam techniques. <i>Ultramicroscopy</i> , 2020 , 212, 112970	3.1	1
237	Polar (In,Ga)N/GaN Quantum Wells: Revisiting the Impact of Carrier Localization on the Green Gap Problem. <i>Physical Review Applied</i> , 2020 , 13,	4.3	20
236	Halide Homogenization for High-Performance Blue Perovskite Electroluminescence. <i>Research</i> , 2020 , 2020, 9017871	7.8	20
235	Porous nitride semiconductors reviewed. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 383002	3	11
234	Efficient light-emitting diodes from mixed-dimensional perovskites on a fluoride interface. <i>Nature Electronics</i> , 2020 , 3, 704-710	28.4	67
233	Alloy segregation at stacking faults in zincblende GaN heterostructures. <i>Journal of Applied Physics</i> , 2020 , 128, 145703	2.5	6
232	Stacking fault-associated polarized surface-emitted photoluminescence from zincblende InGaN/GaN quantum wells. <i>Applied Physics Letters</i> , 2020 , 117, 032103	3.4	5
231	Crystalline Interlayers for Reducing the Effective Thermal Boundary Resistance in GaN-on-Diamond. <i>ACS Applied Materials & Interfaces</i> , 2020 ,	9.5	13
230	Ti Alloyed -GaO: Route towards Wide Band Gap Engineering. <i>Micromachines</i> , 2020 , 11,	3.3	6
229	Effects of microstructure and growth conditions on quantum emitters in gallium nitride. <i>APL Materials</i> , 2019 , 7, 081106	5.7	10
228	Insight into the impact of atomic- and nano-scale indium distributions on the optical properties of InGaN/GaN quantum well structures grown on m-plane freestanding GaN substrates. <i>Journal of Applied Physics</i> , 2019 , 125, 225704	2.5	3

227	Light-output enhancement of InGaN light emitting diodes regrown on nanoporous distributed Bragg reflector substrates. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SCCC14	1.4	5
226	Optical properties of c-Plane InGaN/GaN single quantum wells as a function of total electric field strength. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SCCB09	1.4	3
225	Investigation of stacking faults in MOVPE-grown zincblende GaN by XRD and TEM. <i>Journal of Applied Physics</i> , 2019 , 125, 105303	2.5	11
224	Optical and structural properties of dislocations in InGaN. <i>Journal of Applied Physics</i> , 2019 , 125, 165701	2.5	8
223	Spectral diffusion time scales in InGaN/GaN quantum dots. <i>Applied Physics Letters</i> , 2019 , 114, 112109	3.4	16
222	Investigation of MOVPE-grown zincblende GaN nucleation layers on 3C-SiC/Si substrates. <i>Journal of Crystal Growth</i> , 2019 , 524, 125167	1.6	2
221	Thick, Adherent Diamond Films on AlN with Low Thermal Barrier Resistance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40826-40834	9.5	31
220	InGaN as a Substrate for AC Photoelectrochemical Imaging. <i>Sensors</i> , 2019 , 19,	3.8	7
219	Encapsulation of methylammonium lead bromide perovskite in nanoporous GaN. <i>APL Materials</i> , 2019 , 7, 021107	5.7	12
218	Impact of alloy fluctuations and Coulomb effects on the electronic and optical properties of c-plane GaN/AlGaIn quantum wells. <i>Scientific Reports</i> , 2019 , 9, 18862	4.9	6
217	Structural characterization of porous GaN distributed Bragg reflectors using x-ray diffraction. <i>Journal of Applied Physics</i> , 2019 , 126, 213109	2.5	2
216	Nanoscale structural and chemical analysis of F-implanted enhancement-mode InAlN/GaN heterostructure field effect transistors. <i>Journal of Applied Physics</i> , 2018 , 123, 024902	2.5	2
215	Nanosopic insights into the effect of silicon on core-shell InGaN/GaN nanorods: Luminescence, composition, and structure. <i>Journal of Applied Physics</i> , 2018 , 123, 045103	2.5	8
214	Resonant photoluminescence studies of carrier localisation in c-plane InGaN/GaN quantum well structures. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 175303	1.8	8
213	Structure and magnetic properties of an epitaxial Fe(110)/MgO(111)/GaN(0001) heterostructure. <i>Journal of Applied Physics</i> , 2018 , 123, 103901	2.5	
212	Atom probe tomography of nitride semiconductors. <i>Scripta Materialia</i> , 2018 , 148, 75-81	5.6	25
211	Ultra-low-threshold InGaN/GaN quantum dot micro-ring lasers. <i>Optics Letters</i> , 2018 , 43, 799-802	3	19
210	Vertical leakage mechanism in GaN on Si high electron mobility transistor buffer layers. <i>Journal of Applied Physics</i> , 2018 , 124, 055702	2.5	20

209	Atomic Resolution Imaging of Dislocations in AlGa _N and the Efficiency of UV LEDs. <i>Microscopy and Microanalysis</i> , 2018 , 24, 4-5	0.5	
208	Alloy fluctuations at dislocations in III-nitrides: identification and impact on optical properties 2018 ,		1
207	Characterisation of InGa _N by Photoconductive Atomic Force Microscopy. <i>Materials</i> , 2018 , 11,	3.5	5
206	What is red? On the chromaticity of orange-red InGa _N /Ga _N based LEDs. <i>Journal of Applied Physics</i> , 2018 , 124, 183102	2.5	18
205	Porous AlGa _N -Based Ultraviolet Distributed Bragg Reflectors. <i>Materials</i> , 2018 , 11,	3.5	7
204	Recombination from polar InGa _N /Ga _N quantum well structures at high excitation carrier densities. <i>Physical Review B</i> , 2018 , 98,	3.3	8
203	Effects of a Si-doped InGa _N Underlayer on the Optical Properties of InGa _N /Ga _N Quantum Well Structures with Different Numbers of Quantum Wells. <i>Materials</i> , 2018 , 11,	3.5	5
202	Photomodulated Reflectivity Measurement of Free-Carrier Dynamics in InGa _N /Ga _N Quantum Wells. <i>ACS Photonics</i> , 2018 , 5, 4437-4446	6.3	4
201	Improvement of single photon emission from InGa _N QDs embedded in porous micropillars. <i>Applied Physics Letters</i> , 2018 , 113, 101107	3.4	15
200	Effect of growth temperature and V/III-ratio on the surface morphology of MOVPE-grown cubic zincblende Ga _N . <i>Journal of Applied Physics</i> , 2018 , 124, 105302	2.5	13
199	On-Chip Thermal Insulation Using Porous Ga _N . <i>Proceedings (mdpi)</i> , 2018 , 2, 776	0.3	2
198	Effect of stacking faults on the photoluminescence spectrum of zincblende Ga _N . <i>Journal of Applied Physics</i> , 2018 , 123, 185705	2.5	9
197	Evolution of the m-Plane Quantum Well Morphology and Composition within a Ga _N /InGa _N Core/Shell Structure. <i>Crystal Growth and Design</i> , 2017 , 17, 474-482	3.5	8
196	X-ray reflectivity method for the characterization of InGa _N /Ga _N quantum well interface. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600664	1.3	5
195	Carrier localization in the vicinity of dislocations in InGa _N . <i>Journal of Applied Physics</i> , 2017 , 121, 013104	2.5	36
194	The atomic structure of polar and non-polar InGa _N quantum wells and the green gap problem. <i>Ultramicroscopy</i> , 2017 , 176, 93-98	3.1	19
193	Validity of Vegard's rule for Al _{1-x} In _x N (0.08 ≤ x ≤ 1). <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 205107	3	8
192	Structural impact on the nanoscale optical properties of InGa _N core-shell nanorods. <i>Applied Physics Letters</i> , 2017 , 110, 172105	3.4	19

191	Dielectric behaviour of montmorillonite/cyanoethylated cellulose nanocomposites. <i>Carbohydrate Polymers</i> , 2017 , 172, 315-321	10.3	13
190	Theoretical and experimental analysis of radiative recombination lifetimes in nonpolar InGaN/GaN quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600675	1.3	14
189	Mechanisms preventing trench defect formation in InGaN/GaN quantum well structures using hydrogen during GaN barrier growth. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600666	1.3	10
188	High-temperature performance of non-polar (11 $\bar{2}$ 0) InGaN quantum dots grown by a quasi-two-temperature method. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600724	1.3	5
187	Photoluminescence studies of cubic GaN epilayers. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600733	1.3	13
186	Defects in III-nitride microdisk cavities. <i>Semiconductor Science and Technology</i> , 2017 , 32, 033002	1.8	4
185	Surface Zeta Potential and Diamond Seeding on Gallium Nitride Films. <i>ACS Omega</i> , 2017 , 2, 7275-7280	3.9	26
184	X-ray diffraction analysis of cubic zincblende III-nitrides. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 433002		26
183	Deterministic optical polarisation in nitride quantum dots at thermoelectrically cooled temperatures. <i>Scientific Reports</i> , 2017 , 7, 12067	4.9	10
182	Application of Atom Probe Tomography to Nitride Semiconductors. <i>Microscopy and Microanalysis</i> , 2017 , 23, 666-667	0.5	
181	Dislocations in AlGaIn: Core Structure, Atom Segregation, and Optical Properties. <i>Nano Letters</i> , 2017 , 17, 4846-4852	11.5	23
180	Effects of Wavelength and Defect Density on the Efficiency of (In,Ga)N-Based Light-Emitting Diodes. <i>Physical Review Applied</i> , 2017 , 7,	4.3	11
179	Direct generation of linearly polarized single photons with a deterministic axis in quantum dots. <i>Nanophotonics</i> , 2017 , 6, 1175-1183	6.3	11
178	Wafer-scale Fabrication of Non-Polar Mesoporous GaN Distributed Bragg Reflectors via Electrochemical Porosification. <i>Scientific Reports</i> , 2017 , 7, 45344	4.9	33
177	Stable Speckle Patterns for Nano-scale Strain Mapping up to 700 $^{\circ}$ C. <i>Experimental Mechanics</i> , 2017 , 57, 1469-1482	2.6	26
176	Temperature-dependent fine structure splitting in InGaIn quantum dots. <i>Applied Physics Letters</i> , 2017 , 111, 053101	3.4	4
175	Properties of GaN nanowires with ScxGa1-xN insertion. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600740	1.3	
174	Polarisation-controlled single photon emission at high temperatures from InGaIn quantum dots. <i>Nanoscale</i> , 2017 , 9, 9421-9427	7.7	22

173	Highly polarized electrically driven single-photon emission from a non-polar InGaN quantum dot. <i>Applied Physics Letters</i> , 2017 , 111, 251108	3.4	6
172	The ABC model of recombination reinterpreted: Impact on understanding carrier transport and efficiency droop in InGaN/GaN light emitting diodes. <i>Journal of Applied Physics</i> , 2017 , 122, 234505	2.5	20
171	Impact of high energy electrons on nitrides for nanocathodoluminescence 2016 , 1044-1045		
170	Structural and optical properties of (112 2) InGaN quantum wells compared to (0001) and (112 0). <i>Semiconductor Science and Technology</i> , 2016 , 31, 085007	1.8	4
169	A study of the optical and polarisation properties of InGaN/GaN multiple quantum wells grown on -plane and -plane GaN substrates. <i>Science and Technology of Advanced Materials</i> , 2016 , 17, 736-743	7.1	5
168	Structure and composition of non-polar (11-20) InGaN nanorings grown by modified droplet epitaxy. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 840-844	1.3	1
167	Critical Assessment 23: Gallium nitride-based visible light-emitting diodes. <i>Materials Science and Technology</i> , 2016 , 32, 737-745	1.5	8
166	Nanocathodoluminescence reveals the mitigation of the Stark shift in InGaN quantum wells by silicon doping 2016 , 562-563		
165	Molecular beam epitaxy of free-standing bulk wurtzite Al _x Ga _{1-x} N layers using a highly efficient RF plasma source. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016 , 13, 217-220		1
164	Nanocomposites of TiO ₂ /cyanoethylated cellulose with ultra high dielectric constants. <i>Nanotechnology</i> , 2016 , 27, 195402	3.4	17
163	Ultrafast, Polarized, Single-Photon Emission from m-Plane InGaN Quantum Dots on GaN Nanowires. <i>Nano Letters</i> , 2016 , 16, 7779-7785	11.5	23
162	Theoretical and experimental analysis of the photoluminescence and photoluminescence excitation spectroscopy spectra of m-plane InGaN/GaN quantum wells. <i>Applied Physics Letters</i> , 2016 , 109, 223102	3.4	6
161	Comparative studies of efficiency droop in polar and non-polar InGaN quantum wells. <i>Applied Physics Letters</i> , 2016 , 108, 252101	3.4	17
160	A comparison of the optical properties of InGaN/GaN multiple quantum well structures grown with and without Si-doped InGaN prelayers. <i>Journal of Applied Physics</i> , 2016 , 119, 055708	2.5	12
159	The nature of carrier localisation in polar and nonpolar InGaN/GaN quantum wells. <i>Journal of Applied Physics</i> , 2016 , 119, 181505	2.5	56
158	The microstructure of non-polar a-plane (11 $\bar{2}00$) InGaN quantum wells. <i>Journal of Applied Physics</i> , 2016 , 119, 175703	2.5	19
157	Radiative recombination mechanisms in polar and non-polar InGaN/GaN quantum well LED structures. <i>Applied Physics Letters</i> , 2016 , 109, 151110	3.4	29
156	Local carrier recombination and associated dynamics in m-plane InGaN/GaN quantum wells probed by picosecond cathodoluminescence. <i>Applied Physics Letters</i> , 2016 , 109, 232103	3.4	7

155	Nano-cathodoluminescence reveals the effect of electron damage on the optical properties of nitride optoelectronics and the damage threshold. <i>Journal of Applied Physics</i> , 2016 , 120, 165704	2.5	8
154	Nitride quantum light sources. <i>Europhysics Letters</i> , 2016 , 113, 38001	1.6	11
153	Self-assembled Multilayers of Silica Nanospheres for Defect Reduction in Non- and Semipolar Gallium Nitride Epitaxial Layers. <i>Crystal Growth and Design</i> , 2016 , 16, 1010-1016	3.5	4
152	Effect of QW growth temperature on the optical properties of blue and green InGaN/GaN QW structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016 , 13, 209-213		4
151	Investigating efficiency droop in InGaN/GaN quantum well structures using ultrafast time-resolved terahertz and photoluminescence spectroscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016 , 13, 252-255		
150	Room temperature PL efficiency of InGaN/GaN quantum well structures with prelayers as a function of number of quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016 , 13, 248-251		7
149	Effect of electron blocking layers on the conduction and valence band profiles of InGaN/GaN LEDs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016 , 13, 262-265		1
148	A study of the inclusion of prelayers in InGaN/GaN single- and multiple-quantum-well structures. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 866-872	1.3	14
147	Carrier distributions in InGaN/GaN light-emitting diodes. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 890-894	1.3	5
146	Low-Temperature Growth of Carbon Nanotube Forests Consisting of Tubes with Narrow Inner Spacing Using Co/Al/Mo Catalyst on Conductive Supports. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16819-27	9.5	23
145	SCM and SIMS investigations of unintentional doping in III-nitrides. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015 , 12, 403-407		6
144	Nanocathodoluminescence Reveals Mitigation of the Stark Shift in InGaN Quantum Wells by Si Doping. <i>Nano Letters</i> , 2015 , 15, 7639-43	11.5	28
143	Indium clustering in a-plane InGaN quantum wells as evidenced by atom probe tomography. <i>Applied Physics Letters</i> , 2015 , 106, 072104	3.4	40
142	Effect of the barrier growth mode on the luminescence and conductivity micron scale uniformity of InGaN light emitting diodes. <i>Journal of Applied Physics</i> , 2015 , 117, 115705	2.5	7
141	Non-polar InGaN quantum dot emission with crystal-axis oriented linear polarization. <i>Applied Physics Letters</i> , 2015 , 106, 171108	3.4	11
140	Ultra-low threshold gallium nitride photonic crystal nanobeam laser. <i>Applied Physics Letters</i> , 2015 , 106, 231104	3.4	19
139	Practical Issues for Atom Probe Tomography Analysis of III-Nitride Semiconductor Materials. <i>Microscopy and Microanalysis</i> , 2015 , 21, 544-56	0.5	22
138	Growth of non-polar InGaN quantum dots with an underlying AlN/GaN distributed Bragg reflector by metal-organic vapour phase epitaxy. <i>Superlattices and Microstructures</i> , 2015 , 88, 480-488	2.8	3

137	Structural, electronic, and optical properties of m-plane InGa _N /Ga _N quantum wells: Insights from experiment and atomistic theory. <i>Physical Review B</i> , 2015 , 92,	3.3	48
136	Difference in linear polarization of biaxially strained In _x Ga _{1-x} N alloys on nonpolar a-plane and m-plane GaN. <i>Physical Review B</i> , 2015 , 92,	3.3	3
135	Effects of quantum well growth temperature on the recombination efficiency of InGa _N /Ga _N multiple quantum wells that emit in the green and blue spectral regions. <i>Applied Physics Letters</i> , 2015 , 107, 132106	3.4	48
134	Optical studies of non-polar m-plane () InGa _N /Ga _N multi-quantum wells grown on freestanding bulk GaN. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 965-970	1.3	13
133	Microstructural dependency of optical properties of m-plane InGa _N multiple quantum wells grown on 2° misoriented bulk GaN substrates. <i>Applied Physics Letters</i> , 2015 , 107, 082104	3.4	3
132	Effect of Threading Dislocations on the Quality Factor of InGa _N /Ga _N Microdisk Cavities. <i>ACS Photonics</i> , 2015 , 2, 137-143	6.3	23
131	Investigation of unintentional indium incorporation into Ga _N barriers of InGa _N /Ga _N quantum well structures. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 928-935	1.3	14
130	Cathodoluminescence hyperspectral imaging of trench-like defects in InGa _N /Ga _N quantum well structures. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 135107	3	9
129	Effects of an InGa _N prelayer on the properties of InGa _N /Ga _N quantum well structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 710-713		10
128	An investigation into defect reduction techniques for growth of non-polar Ga _N on sapphire. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 541-544		15
127	High excitation density recombination dynamics in InGa _N /Ga _N quantum well structures in the droop regime. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 694-697		1
126	Non-polar (11 $\bar{2}$ 0) InGa _N quantum dots with short exciton lifetimes grown by metal-organic vapour phase epitaxy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 698-701		4
125	High temperature stability in non-polar (11 $\bar{2}$ 0) InGa _N quantum dots: Exciton and biexciton dynamics. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 702-705		17
124	The effects of varying threading dislocation density on the optical properties of InGa _N /Ga _N quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 750-753		8
123	Bias dependence and correlation of the cathodoluminescence and electron beam induced current from an InGa _N /Ga _N light emitting diode. <i>Journal of Applied Physics</i> , 2014 , 116, 033105	2.5	15
122	Distinctive signature of indium gallium nitride quantum dot lasing in microdisk cavities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14042-6	11.5	32
121	Coincident electron channeling and cathodoluminescence studies of threading dislocations in Ga _N . <i>Microscopy and Microanalysis</i> , 2014 , 20, 55-60	0.5	23
120	Growth of non-polar (11-20) InGa _N quantum dots by metal organic vapour phase epitaxy using a two temperature method. <i>APL Materials</i> , 2014 , 2, 126101	5.7	16

119	Observations of Rabi oscillations in a non-polar InGaN quantum dot. <i>Applied Physics Letters</i> , 2014 , 104, 263108	3.4	16
118	Polarized photoluminescence excitation spectroscopy of a-plane InGaN/GaN multiple quantum wells grown on r-plane sapphire. <i>Journal of Applied Physics</i> , 2014 , 115, 113106	2.5	11
117	The effects of Si-doped prelayers on the optical properties of InGaN/GaN single quantum well structures. <i>Applied Physics Letters</i> , 2014 , 105, 092106	3.4	16
116	The impact of trench defects in InGaN/GaN light emitting diodes and implications for the green gap problem. <i>Applied Physics Letters</i> , 2014 , 105, 112110	3.4	39
115	Low temperature carrier redistribution dynamics in InGaN/GaN quantum wells. <i>Journal of Applied Physics</i> , 2014 , 115, 113505	2.5	16
114	Evaluation of growth methods for the heteroepitaxy of non-polar (112 $\bar{0}$) GaN on sapphire by MOVPE. <i>Journal of Crystal Growth</i> , 2014 , 408, 32-41	1.6	12
113	The impact of growth parameters on trench defects in InGaN/GaN quantum wells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 740-743	1.6	6
112	Dynamics of carrier redistribution processes in InGaN/GaN quantum well structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 738-741		2
111	Electron Channeling Contrast Imaging of Defects in III-Nitride Semiconductors. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1024-1025	0.5	
110	Alloy content determination of fully strained and partially relaxed semi-polar group III-nitrides by x-ray diffraction. <i>Journal of Applied Physics</i> , 2013 , 114, 053520	2.5	8
109	Low temperature growth of ultra-high mass density carbon nanotube forests on conductive supports. <i>Applied Physics Letters</i> , 2013 , 103, 073116	3.4	44
108	The impact of gross well width fluctuations on the efficiency of GaN-based light emitting diodes. <i>Applied Physics Letters</i> , 2013 , 103, 141114	3.4	45
107	Correlations between the morphology and emission properties of trench defects in InGaN/GaN quantum wells. <i>Journal of Applied Physics</i> , 2013 , 113, 073505	2.5	28
106	Towards a better understanding of trench defects in InGaN/GaN quantum wells. <i>Journal of Physics: Conference Series</i> , 2013 , 471, 012042	0.3	2
105	High excitation carrier density recombination dynamics of InGaN/GaN quantum well structures: Possible relevance to efficiency droop. <i>Applied Physics Letters</i> , 2013 , 102, 022106	3.4	27
104	Properties of trench defects in InGaN/GaN quantum well structures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 195-198	1.6	12
103	Growth of InGaN quantum dots with AlGaIn barrier layers via modified droplet epitaxy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013 , 178, 1390-1394	3.1	5
102	The impact of substrate miscut on the morphology of InGaIn epitaxial layers subjected to a growth interruption. <i>Journal of Applied Physics</i> , 2013 , 113, 063503	2.5	7

101	Low threshold, room-temperature microdisk lasers in the blue spectral range. <i>Applied Physics Letters</i> , 2013 , 103, 021112	3.4	48
100	Defect Reduction in Semi-Polar (112 2) Gallium Nitride Grown Using Epitaxial Lateral Overgrowth. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JB01	1.4	9
99	Non-polar (11-20) InGaN quantum dots with short exciton lifetimes grown by metal-organic vapor phase epitaxy. <i>Applied Physics Letters</i> , 2013 , 102, 251905	3.4	32
98	Fundamentals of X-ray Diffraction Characterisation of Strain in GaN Based Compounds. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JB29	1.4	8
97	Origins of Spectral Diffusion in the Micro-Photoluminescence of Single InGaN Quantum Dots. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JE01	1.4	13
96	Carrier Density Dependent Localization and Consequences for Efficiency Droop in InGaN/GaN Quantum Well Structures. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JK10	1.4	13
95	Evidence for Dark States in the Temperature Dependent Recombination Dynamics of InGaN/GaN Quantum Wells. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JL12	1.4	
94	Growth and optical characterisation of multilayers of InGaN quantum dots. <i>Journal of Crystal Growth</i> , 2012 , 338, 262-266	1.6	12
93	The consequences of high injected carrier densities on carrier localization and efficiency droop in InGaN/GaN quantum well structures. <i>Journal of Applied Physics</i> , 2012 , 111, 083512	2.5	90
92	The negligible effects of miscut on indium aluminium nitride growth. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 461-464		1
91	Unintentional doping in GaN. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 9558-73	3.6	44
90	Recombination mechanisms in heteroepitaxial non-polar InGaN/GaN quantum wells. <i>Journal of Applied Physics</i> , 2012 , 112, 013534	2.5	3
89	Morphological, structural, and emission characterization of trench defects in InGaN/GaN quantum well structures. <i>Applied Physics Letters</i> , 2012 , 101, 212107	3.4	62
88	Optical cavity efficacy and lasing of focused ion beam milled GaN/InGaN micropillars. <i>Journal of Applied Physics</i> , 2012 , 112, 113516	2.5	1
87	A full free spectral range tuning of p-i-n doped gallium nitride microdisk cavity. <i>Applied Physics Letters</i> , 2012 , 101, 161105	3.4	8
86	Atom probe tomography characterisation of a laser diode structure grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2012 , 111, 053508	2.5	11
85	The effects of Si doping on dislocation movement and tensile stress in GaN films. <i>Journal of Applied Physics</i> , 2011 , 109, 073509	2.5	51
84	Response to Comment on The effects of Si doping on dislocation movement and tensile stress in GaN films[J. Appl. Phys. 109, 073509 (2011)]. <i>Journal of Applied Physics</i> , 2011 , 110, 096102	2.5	3

83	The impact of hydrogen on indium incorporation and surface accumulation in InAlN epitaxy. <i>Journal of Crystal Growth</i> , 2011 , 331, 4-7	1.6	8
82	Carrier localization mechanisms in In _x Ga _{1-x} N/GaN quantum wells. <i>Physical Review B</i> , 2011 , 83,	3.3	146
81	Controlled tuning of whispering gallery modes of GaN/InGaN microdisk cavities. <i>Applied Physics Letters</i> , 2011 , 99, 111111	3.4	12
80	Support Catalyst-Gas Interactions during Carbon Nanotube Growth on Metallic Ta Films. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4359-4369	3.8	55
79	The effects of varying metal precursor fluxes on the growth of InAlN by metal organic vapour phase epitaxy. <i>Journal of Crystal Growth</i> , 2011 , 314, 13-20	1.6	19
78	Atom probe tomography and transmission electron microscopy of a Mg-doped AlGaIn/GaN superlattice. <i>Ultramicroscopy</i> , 2011 , 111, 207-11	3.1	38
77	AN INTRODUCTION TO SCANNING PROBE MICROSCOPY OF SEMICONDUCTORS WITH CASE STUDIES CONCERNING GALLIUM NITRIDE AND RELATED MATERIALS. <i>Materials and Energy</i> , 2011 , 313-367		
76	Atom probe tomography assessment of the impact of electron beam exposure on In _x Ga _{1-x} N/GaN quantum wells. <i>Applied Physics Letters</i> , 2011 , 99, 021906	3.4	43
75	Dislocation density-dependent quality factors in InGaIn quantum dot containing microdisks. <i>Applied Physics Letters</i> , 2011 , 98, 131909	3.4	10
74	In-situ study of growth of carbon nanotube forests on conductive CoSi ₂ support. <i>Journal of Applied Physics</i> , 2011 , 109, 114314	2.5	31
73	Carrier dynamics of In _x Ga _{1-x} N quantum disks embedded in GaN nanocolumns. <i>Journal of Applied Physics</i> , 2011 , 109, 063515	2.5	9
72	Microstructural, optical, and electrical characterization of semipolar (112̄2) gallium nitride grown by epitaxial lateral overgrowth. <i>Journal of Applied Physics</i> , 2010 , 108, 083521	2.5	25
71	Microstructural origins of localization in InGaIn quantum wells. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 354003	3	75
70	Characterization of unintentional doping in nonpolar GaN. <i>Journal of Applied Physics</i> , 2010 , 107, 023503	2.5	13
69	Low temperature photoluminescence and cathodoluminescence studies of nonpolar GaN grown using epitaxial lateral overgrowth. <i>Journal of Applied Physics</i> , 2010 , 108, 033523	2.5	21
68	Imaging dislocations in gallium nitride across broad areas using atomic force microscopy. <i>Review of Scientific Instruments</i> , 2010 , 81, 063701	1.7	5
67	Investigation of optimum growth conditions of InAlN for application in distributed Bragg reflectors. <i>Journal of Physics: Conference Series</i> , 2010 , 209, 012015	0.3	4
66	Scanning capacitance microscopy studies of GaN grown by epitaxial layer overgrowth. <i>Journal of Physics: Conference Series</i> , 2010 , 209, 012049	0.3	1

65	Mg dopant distribution in an AlGaIn/GaN p-type superlattice assessed using atom probe tomography, TEM and SIMS. <i>Journal of Physics: Conference Series</i> , 2010 , 209, 012014	0.3	7
64	Microstructural characterisation of a prototype layer structure for a GaN-based photonic crystal cavity. <i>Journal of Physics: Conference Series</i> , 2010 , 209, 012016	0.3	
63	The role of rough surfaces in quantitative ADF imaging of gallium nitride-based materials. <i>Journal of Physics: Conference Series</i> , 2010 , 209, 012019	0.3	1
62	The impact of ScOxNy interlayers on unintentional doping and threading dislocations in GaN. <i>Journal of Physics: Conference Series</i> , 2010 , 209, 012067	0.3	1
61	Application of highly silicon-doped marker layers in the investigation of unintentional doping in GaN on sapphire. <i>Ultramicroscopy</i> , 2010 , 111, 73-8	3.1	4
60	Q-factor measurements on planar nitride cavities. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 1866-1868		
59	Atom probe extended to AlGaIn: three-dimensional imaging of a Mg-doped AlGaIn/GaN superlattice. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 1781-1783		4
58	Energy landscape and carrier wave-functions in InGaIn/GaN quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2255-2258		7
57	Quantification of unintentional doping in non-polar GaN using scanning capacitance microscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 1875-1877		
56	Effect of overgrowth conditions on the optical properties of lateral epitaxially overgrown a-plane GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2088-2090		2
55	Cavity Enhancement of Single Quantum Dot Emission in the Blue. <i>Nanoscale Research Letters</i> , 2009 , 5, 608-612	5	3
54	Morphological changes of InGaIn epilayers during annealing assessed by spectral analysis of atomic force microscopy images. <i>Journal of Applied Physics</i> , 2009 , 106, 054319	2.5	7
53	The Spatial Distribution of Threading Dislocations in Gallium Nitride Films. <i>Advanced Materials</i> , 2009 , 21, 3941-3944	24	40
52	Nitride-based quantum dots for single photon source applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 2510-2523	1.6	21
51	Non-linear excitation and correlation studies of single InGaIn quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 864-867		2
50	Scanning capacitance microscopy as a tool for the assessment of unintentional doping in GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, S980-S983		1
49	Optimisation of GaIn overgrowth of InAlN for DBRs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, S666-S670		11
48	The influence of coalescence time on unintentional doping in GaIn/sapphire. <i>Journal of Crystal Growth</i> , 2009 , 311, 232-237	1.6	38

47	Scanning capacitance microscopy studies of unintentional doping in epitaxial lateral overgrowth GaN. <i>Journal of Applied Physics</i> , 2009 , 106, 104503	2.5	15
46	Two-photon autocorrelation measurements on a single InGaN/GaN quantum dot. <i>Nanotechnology</i> , 2009 , 20, 245702	3.4	8
45	Surface terracing on ferritic stainless-steel fibres and potential relevance to in vitro cell growth. <i>Philosophical Magazine</i> , 2009 , 89, 2285-2303	1.6	5
44	Advances in AFM for the electrical characterization of semiconductors. <i>Reports on Progress in Physics</i> , 2008 , 71, 076501	14.4	155
43	Three-dimensional atom probe analysis of green- and blue-emitting In _x Ga _{1-x} N/GaN multiple quantum well structures. <i>Journal of Applied Physics</i> , 2008 , 104, 013524	2.5	77
42	High resolution transmission electron microscopy and three-dimensional atom probe microscopy as complementary techniques for the high spatial resolution analysis of GaN based quantum well systems. <i>Materials Science and Technology</i> , 2008 , 24, 675-681	1.5	17
41	Assessment of the performance of scanning capacitance microscopy for n-type gallium nitride. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 611		18
40	Electrically driven single InGaN/GaN quantum dot emission. <i>Applied Physics Letters</i> , 2008 , 93, 233103	3.4	11
39	Compositional inhomogeneity of a high-efficiency In _x Ga _{1-x} N based multiple quantum well ultraviolet emitter studied by three dimensional atom probe. <i>Applied Physics Letters</i> , 2008 , 92, 041904	3.4	31
38	The origin and reduction of dislocations in Gallium Nitride. <i>Journal of Materials Science: Materials in Electronics</i> , 2008 , 19, 208-214	2.1	18
37	Gross well-width fluctuations in InGaN quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 1475-1481		5
36	Assessment of scanning spreading resistance microscopy for application to n-type GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 1652-1654		0
35	Unintentional doping in GaN assessed by scanning capacitance microscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 896-898	1.3	21
34	Atom probe reveals the structure of In _x Ga _{1-x} N based quantum wells in three dimensions. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 861-867	1.3	12
33	Experimental and theoretical study of the quantum-confined Stark effect in a single InGaN/GaN quantum dot under applied vertical electric field. <i>Superlattices and Microstructures</i> , 2008 , 43, 431-435	2.8	12
32	Progress in the optical studies of single InGaN/GaN quantum dots. <i>Philosophical Magazine</i> , 2007 , 87, 2077-2093	1.6	8
31	Atom probe tomography today. <i>Materials Today</i> , 2007 , 10, 36-42	21.8	186
30	Practical issues in carrier-contrast imaging of GaN structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 2576-2580		16

29	Intentional and unintentional localization in InGaN. <i>Philosophical Magazine</i> , 2007 , 87, 1967-1969	1.6	11
28	Preparation of InAs(0 0 1) surface for spin injection via a chemical route. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 3190-3193	3	6
27	Response to [Comment on [Three-dimensional atom probe studies of an In _x Ga _{1-x} N/GaN multiple quantum well structure: assessment of possible indium clustering [Appl. Phys. Lett. 91, 176101 (2007)]. <i>Applied Physics Letters</i> , 2007 , 91, 176102	3.4	8
26	Anisotropic strain relaxation in a-plane GaN quantum dots. <i>Journal of Applied Physics</i> , 2007 , 101, 063541	2.5	21
25	Characterization of InGaN quantum wells with gross fluctuations in width. <i>Journal of Applied Physics</i> , 2007 , 102, 013513	2.5	30
24	Three-dimensional atom probe studies of an In _x Ga _{1-x} N/GaN multiple quantum well structure: Assessment of possible indium clustering. <i>Applied Physics Letters</i> , 2007 , 90, 061903	3.4	142
23	Role of gross well-width fluctuations in bright, green-emitting single InGaN/GaN quantum well structures. <i>Applied Physics Letters</i> , 2007 , 90, 121911	3.4	68
22	Materials challenges for devices based on single, self-assembled InGaN quantum dots. <i>Journal of Physics: Conference Series</i> , 2007 , 61, 889-893	0.3	7
21	Control of the oscillator strength of the exciton in a single InGaN-GaN quantum dot. <i>Physical Review Letters</i> , 2007 , 99, 197403	7.4	52
20	Cavity-enhanced blue single-photon emission from a single InGaN/GaN quantum dot. <i>Applied Physics Letters</i> , 2007 , 91, 052101	3.4	54
19	Insights into the origin of threading dislocations in GaN/Al ₂ O ₃ from atomic force microscopy. <i>Applied Physics Letters</i> , 2006 , 89, 011914	3.4	24
18	Three methods for the growth of InGaN nanostructures by MOVPE. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 1552-1556		3
17	Towards a better understanding of nano-islands formed during atmospheric pressure MOVPE. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 1544-1547		4
16	The effect of Si on the growth mode of GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 1570-1574		
15	Two-photon absorption from single InGaN/GaN quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 32, 119-122	3	38
14	Quantum-confined Stark effect in a single InGaN quantum dot under a lateral electric field. <i>Applied Physics Letters</i> , 2005 , 86, 213103	3.4	45
13	The mean inner potential of GaN measured from nanowires using off-axis electron holography. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 892, 184		3
12	Growth modes in heteroepitaxy of InGaN on GaN. <i>Journal of Applied Physics</i> , 2005 , 97, 013707	2.5	93

11	Temporal variation in photoluminescence from single InGa _N quantum dots. <i>Applied Physics Letters</i> , 2004 , 84, 4110-4112	3.4	52
10	Time-integrated and time-resolved photoluminescence studies of InGa _N quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 568-572		1
9	The influence of ammonia on the growth mode in InGa _N /Ga _N heteroepitaxy. <i>Journal of Crystal Growth</i> , 2004 , 272, 393-399	1.6	21
8	Nucleation and growth of Ga _N Al _N quantum dots. <i>Physical Review B</i> , 2004 , 70,	3.3	41
7	Growth of InGa _N quantum dots on Ga _N by MOVPE, employing a growth temperature nitrogen anneal. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 2515-2519		7
6	Time-resolved dynamics in single InGa _N quantum dots. <i>Applied Physics Letters</i> , 2003 , 83, 2674-2676	3.4	48
5	Nanoscale solid-state quantum computing. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003 , 361, 1473-85	3	46
4	InGa _N quantum dots grown by metalorganic vapor phase epitaxy employing a post-growth nitrogen anneal. <i>Applied Physics Letters</i> , 2003 , 83, 755-757	3.4	126
3	Heteroepitaxial growth of In _N islands studied by STM and AFM. <i>Journal Physics D: Applied Physics</i> , 2002 , 35, 615-619	3	11
2	Transcript analysis of 1003 novel yeast genes using high-throughput northern hybridizations. <i>EMBO Journal</i> , 2001 , 20, 3177-86	13	38
1	Understanding the Role of Grain Boundaries on Charge-Carrier and Ion Transport in Cs ₂ AgBiBr ₆ Thin Films. <i>Advanced Functional Materials</i> , 2104981	15.6	8