# Nicolas Grandjean

#### List of Publications by Citations

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 533
 15,450
 62
 98

 papers
 citations
 h-index
 g-index

 566
 16,633
 3
 6.19

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

#	Paper	IF	Citations
533	Room-temperature polariton lasing in semiconductor microcavities. <i>Physical Review Letters</i> , <b>2007</b> , 98, 126405	7.4	710
532	Temperature quenching of photoluminescence intensities in undoped and doped GaN. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 3721-3728	2.5	418
531	Quantum confined Stark effect due to built-in internal polarization fields in (Al,Ga)N/GaN quantum wells. <i>Physical Review B</i> , <b>1998</b> , 58, R13371-R13374	3.3	362
530	Current status of AllnN layers lattice-matched to GaN for photonics and electronics. <i>Journal Physics D: Applied Physics</i> , <b>2007</b> , 40, 6328-6344	3	278
529	From visible to white light emission by GaN quantum dots on Si(111) substrate. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 962-964	3.4	254
528	High electron mobility lattice-matched AlinNtan field-effect transistor heterostructures. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 062106	3.4	253
527	Room temperature polariton lasing in a GaNAlGaN multiple quantum well microcavity. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 051102	3.4	232
526	Built-in electric-field effects in wurtzite AlGaN/GaN quantum wells. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 3714-3720	2.5	223
525	High internal electric field in a graded-width InGaN/GaN quantum well: Accurate determination by time-resolved photoluminescence spectroscopy. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1252-1254	3.4	194
524	Nitridation of sapphire. Effect on the optical properties of GaN epitaxial overlayers. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 2071-2073	3.4	170
523	Barrier-width dependence of group-III nitrides quantum-well transition energies. <i>Physical Review B</i> , <b>1999</b> , 60, 1496-1499	3.3	168
522	Spontaneous polarization buildup in a room-temperature polariton laser. <i>Physical Review Letters</i> , <b>2008</b> , 101, 136409	7.4	163
521	Two-dimensional electron gas density in Al1IInxN/AlN/GaN heterostructures (0.03III).  Journal of Applied Physics, 2008, 103, 093714	2.5	138
520	Epitaxial growth of highly strained InxGa1NAs on GaAs(001): the role of surface diffusion length. <i>Journal of Crystal Growth</i> , <b>1993</b> , 134, 51-62	1.6	133
519	Molecular Beam Epitaxy of Group-III Nitrides on Silicon Substrates: Growth, Properties and Device Applications. <i>Physica Status Solidi A</i> , <b>2001</b> , 188, 501-510		131
518	Delayed relaxation by surfactant action in highly strained III-V semiconductor epitaxial layers. <i>Physical Review Letters</i> , <b>1992</b> , 69, 796-799	7:4	129
517	Progresses in III-nitride distributed Bragg reflectors and microcavities using AllnN/GaN materials. <i>Physica Status Solidi (B): Basic Research</i> , <b>2005</b> , 242, 2326-2344	1.3	124

516	Time-resolved photoluminescence as a probe of internal electric fields in GaN-(GaAl)N quantum wells. <i>Physical Review B</i> , <b>1999</b> , 59, 15363-15367	3.3	120
515	Oscillation of the lattice relaxation in layer-by-layer epitaxial growth of highly strained materials. <i>Physical Review Letters</i> , <b>1993</b> , 71, 1411-1414	7.4	116
514	High-electron-mobility AlGaN/GaN heterostructures grown on Si(111) by molecular-beam epitaxy. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 335-337	3.4	115
513	Composition of Wide Bandgap Semiconductor Materials and Nanostructures Measured by Atom Probe Tomography and Its Dependence on the Surface Electric Field. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 24136-24151	3.8	114
512	205-GHz (Al,In)N/GaN HEMTs. IEEE Electron Device Letters, 2010, 31, 957-959	4.4	111
511	Efficiency of NH3 as nitrogen source for GaN molecular beam epitaxy. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 350-352	3.4	111
510	Blue monolithic AlInN-based vertical cavity surface emitting laser diode on free-standing GaN substrate. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 151113	3.4	109
509	Room-temperature blue-green emission from InGaN/GaN quantum dots made by strain-induced islanding growth. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 3751-3753	3.4	105
508	High electron mobility in AlGaN/GaN heterostructures grown on bulk GaN substrates. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2551-2553	3.4	103
507	Radiative lifetime of a single electron-hole pair in GaNAIN quantum dots. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	101
506	GaN and AlxGa1N molecular beam epitaxy monitored by reflection high-energy electron diffraction. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 1816-1818	3.4	100
505	Monolithic White Light Emitting Diodes Based on InGaN/GaN Multiple-Quantum Wells. <i>Japanese Journal of Applied Physics</i> , <b>2001</b> , 40, L918-L920	1.4	100
504	Crack-free fully epitaxial nitride microcavity using highly reflective AlInNCaN Bragg mirrors. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 031107	3.4	98
503	Luminescence and reflectivity studies of undoped, n- and p-doped GaN on (0001) sapphire.  Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1997, 50, 97-104	3.1	97
502	Barrier-Layer Scaling of InAlN/GaN HEMTs. <i>IEEE Electron Device Letters</i> , <b>2008</b> , 29, 422-425	4.4	95
501	Testing the Temperature Limits of GaN-Based HEMT Devices. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2010</b> , 10, 427-436	1.6	92
500	GaN evaporation in molecular-beam epitaxy environment. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 1854-1856	3.4	90
499	Surfactant effect on the surface diffusion length in epitaxial growth. <i>Physical Review B</i> , <b>1993</b> , 48, 8502-	8 <u>5</u> .05	89

498	Analysis of degradation mechanisms in lattice-matched InAlN/GaN high-electron-mobility transistors. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 124503	2.5	84
497	Molecular-beam epitaxy of gallium nitride on (0001) sapphire substrates using ammonia. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 1379-1383	2.5	83
496	Can InAlN/GaN be an alternative to high power / high temperature AlGaN/GaN devices? 2006,		82
495	Polariton lasing in a hybrid bulk ZnO microcavity. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 161104	3.4	81
494	Condensation phase diagram of cavity polaritons in GaN-based microcavities: Experiment and theory. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	80
493	Recent Progress in the Growth of Highly Reflective Nitride-Based Distributed Bragg Reflectors and Their Use in Microcavities. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, 7207-7216	1.4	79
492	Midinfrared intersubband absorption in lattice-matched AlInN©aN multiple quantum wells. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 111106	3.4	78
491	Self-limitation of AlGaN/GaN quantum well energy by built-in polarization field. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 2361-2363	3.4	78
490	Gas source molecular beam epitaxy of wurtzite GaN on sapphire substrates using GaN buffer layers. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 240-242	3.4	76
489	Technology and Performance of InAlN/AlN/GaN HEMTs With Gate Insulation and Current Collapse Suppression Using Zr\$hbox{O}_{bm 2}\$ or Hf \$hbox{O}_{bm 2}\$. <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 937-941	2.9	76
488	Thermal stability of GaN investigated by Raman scattering. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 960-962	3.4	74
487	Real time control of InxGa1N molecular beam epitaxy growth. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 1078-	10 <sub>9</sub> 8Ф	74
486	Crack-free highly reflective AlInNAlGaN Bragg mirrors for UV applications. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 051108	3.4	73
485	Recombination coefficients of GaN-based laser diodes. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 093106	2.5	7 <sup>2</sup>
484	Burying non-radiative defects in InGaN underlayer to increase InGaN/GaN quantum well efficiency. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 262101	3.4	71
483	Large vacuum Rabi splitting in a multiple quantum well GaN-based microcavity in the strong-coupling regime. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	71
482	Surfactant mediated epitaxial growth of InxGa1NAs on GaAs (001). <i>Applied Physics Letters</i> , <b>1992</b> , 61, 99-101	3.4	71
481	Room-temperature polariton luminescence from a bulk GaN microcavity. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	70

# (2001-2006)

480	High spatial resolution picosecond cathodoluminescence of InGaN quantum wells. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 232109	3.4	70	
479	InGaN/GaN quantum wells grown by molecular-beam epitaxy emitting from blue to red at 300 K. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1268-1270	3.4	70	
478	InGaN based micro light emitting diodes featuring a buried GaN tunnel junction. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 051107	3.4	67	
477	Exciton localization on basal stacking faults in a-plane epitaxial lateral overgrown GaN grown by hydride vapor phase epitaxy. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 043102	2.5	65	
476	GaN surface as the source of non-radiative defects in InGaN/GaN quantum wells. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 111106	3.4	65	
475	Impact of disorder on high quality factor III-V nitride microcavities. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 26	1304	64	
474	Piezoelectric field and its influence on the pressure behavior of the light emission from GaN/AlGaN strained quantum wells. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1483-1485	3.4	64	
473	Broadband blue superluminescent light-emitting diodes based on GaN. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 081107	3.4	62	
472	Large size dependence of exciton-longitudinal-optical-phonon coupling in nitride-based quantum wells and quantum boxes. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 428-430	3.4	62	
471	Complex behavior of biexcitons in GaN quantum dots due to a giant built-in polarization field. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	61	
470	Polarity inversion of GaN(0001) by a high Mg doping. <i>Journal of Crystal Growth</i> , <b>2004</b> , 269, 249-256	1.6	61	
469	Influence of pressure on the optical properties of InxGa1NN epilayers and quantum structures. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	61	
468	. IEEE Electron Device Letters, <b>2011</b> , 32, 1364-1366	4.4	60	
467	Gate insulation and drain current saturation mechanism in InAlNGaN metal-oxide-semiconductor high-electron-mobility transistors. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 043509	3.4	59	
466	InAlN/GaN HEMTs for Operation in the 1000 \$^{circ} hbox{C}\$ Regime: A First Experiment. <i>IEEE Electron Device Letters</i> , <b>2012</b> , 33, 985-987	4.4	58	
465	Surface segregation in (Ga,In)As/GaAs quantum boxes. <i>Physical Review B</i> , <b>1997</b> , 55, R10189-R10192	3.3	56	
464	Role of stable and metastable MgH complexes in p-type GaN for cw blue laser diodes. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 213505	3.4	55	
463	Group-III nitride quantum heterostructures grown by molecular beam epitaxy. <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, 6945-6960	1.8	55	

462	Epitaxial relationships between GaN and Al2O3(0001) substrates. Applied Physics Letters, 1997, 70, 64	3-6445	54
461	MOCVD of HfO2 and ZrO2 high-k gate dielectrics for InAlN/AlN/GaN MOS-HEMTs. <i>Semiconductor Science and Technology</i> , <b>2007</b> , 22, 1272-1275	1.8	54
460	GaN grown on Si(111) substrate: From two-dimensional growth to quantum well assessment. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 82-84	3.4	53
459	Effects of strain and composition on the lattice parameters and applicability of Vegard I rule in Al-rich All InxN films grown on sapphire. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 103513	2.5	52
458	Monte Carlo simulation of In surface segregation during the growth of InxGa1-xAs on GaAs(001). <i>Physical Review B</i> , <b>1996</b> , 53, 998-1001	3.3	52
457	Strain compensation in AllnN/GaN multilayers on GaN substrates: Application to the realization of defect-free Bragg reflectors. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 181111	3.4	51
456	High quality factor two dimensional GaN photonic crystal cavity membranes grown on silicon substrate. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 071103	3.4	50
455	High quality nitride based microdisks obtained via selective wet etching of AllnN sacrificial layers. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 171102	3.4	50
454	Effects of GaAlN barriers and of dimensionality on optical recombination processes in InGaN quantum wells and quantum boxes. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1538-1540	3.4	50
453	Intrinsic degradation mechanism of nearly lattice-matched InAlN layers grown on GaN substrates. Journal of Applied Physics, <b>2013</b> , 113, 063506	2.5	49
452	Ultraviolet GaN light-emitting diodes grown by molecular beam epitaxy using NH3. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 82-84	3.4	49
451	Ultrathin InAlN/AlN Barrier HEMT With High Performance in Normally Off Operation. <i>IEEE Electron Device Letters</i> , <b>2009</b> , 30, 1030-1032	4.4	48
450	InAlN/GaN MOSHEMT With Self-Aligned Thermally Generated Oxide Recess. <i>IEEE Electron Device Letters</i> , <b>2009</b> , 30, 1131-1133	4.4	48
449	Indium surfactant effect on AlNGaN heterostructures grown by metal-organic vapor-phase epitaxy: Applications to intersubband transitions. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 151902	3.4	48
448	Observation and modeling of the time-dependent descreening of internal electric field in a wurtzite GaN/Al0.15Ga0.85N quantum well after high photoexcitation. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	48
447	In surface segregation in InGaN/GaN quantum wells. <i>Journal of Crystal Growth</i> , <b>2003</b> , 251, 471-475	1.6	48
446	Intraband absorptions in GaN/AlN quantum dots in the wavelength range of 1.272.4 fb. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 868-870	3.4	48
445	Status of the Emerging InAlN/GaN Power HEMT Technology. <i>Open Electrical and Electronic Engineering Journal</i> , <b>2008</b> , 2, 1-7	O	48

# (2002-2013)

444	Integrated photonics on silicon with wide bandgap GaN semiconductor. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 081120	3.4	47	
443	Blue lasing at room temperature in high quality factor GaNAlInN microdisks with InGaN quantum wells. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 061106	3.4	47	
442	Acoustic phonon scattering of two-dimensional electrons in GaN/AlGaN heterostructures. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1228-1230	3.4	46	
441	Critical impact of EhrlichBchwBel barrier on GaN surface morphology during homoepitaxial growth. <i>Journal of Crystal Growth</i> , <b>2016</b> , 433, 36-42	1.6	45	
440	Diamond overgrown InAlN/GaN HEMT. Diamond and Related Materials, 2011, 20, 604-608	3.5	45	
439	AlGaN/GaN HEMT on (111) single crystalline diamond. <i>Electronics Letters</i> , <b>2010</b> , 46, 299	1.1	45	
438	Blue lasing at room temperature in an optically pumped lattice-matched AlInN/GaN VCSEL structure. <i>Electronics Letters</i> , <b>2007</b> , 43, 924	1.1	45	
437	Molecular Beam Epitaxy of GaN under N-rich Conditions using NH3. <i>Japanese Journal of Applied Physics</i> , <b>1999</b> , 38, 618-621	1.4	45	
436	Continuous wave blue lasing in III-nitride nanobeam cavity on silicon. <i>Nano Letters</i> , <b>2015</b> , 15, 1259-63	11.5	44	
435	Impact of inhomogeneous excitonic broadening on the strong exciton-photon coupling in quantum well nitride microcavities. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	44	
434	Two-color GaN/AlGaN quantum cascade detector at short infrared wavelengths of 1 and 1.7 lb. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 181103	3.4	43	
433	High-Al-content crack-free AlGaN/GaN Bragg mirrors grown by molecular-beam epitaxy. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 499-501	3.4	43	
432	Photoreflectance investigations of the bowing parameter in AlGaN alloys lattice-matched to GaN. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 3353-3355	3.4	43	
431	102-GHz AllnN/GaN HEMTs on Silicon With 2.5-W/mm Output Power at 10 GHz. <i>IEEE Electron Device Letters</i> , <b>2009</b> , 30, 796-798	4.4	42	
430	Lattice-matched distributed Bragg reflectors for nitride-based vertical cavity surface emitting lasers. <i>Electronics Letters</i> , <b>2005</b> , 41, 94	1.1	42	
429	Statistical correction of atom probe tomography data of semiconductor alloys combined with optical spectroscopy: The case of Al0.25Ga0.75N. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 105704	2.5	42	
428	High doping level in Mg-doped GaN layers grown at low temperature. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 013110	2.5	41	
427	Injection Dependence of the Electroluminescence Spectra of Phosphor Free GaN-Based White Light Emitting Diodes. <i>Physica Status Solidi A</i> , <b>2002</b> , 192, 139-143		41	

426	GaN epitaxial growth on sapphire (0 0 0 1): the role of the substrate nitridation. <i>Journal of Crystal Growth</i> , <b>1997</b> , 178, 220-228	1.6	40
425	Inhomogeneous broadening of AlxGa1NGaN quantum wells. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	40
424	Low-temperature time-resolved cathodoluminescence study of exciton dynamics involving basal stacking faults in a-plane GaN. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 201115	3.4	39
423	Gate-lag and drain-lag effects in (GaN)/InAlN/GaN and InAlN/AlN/GaN HEMTs. <i>Physica Status Solidi</i> (A) Applications and Materials Science, <b>2007</b> , 204, 2019-2022	1.6	39
422	Photoluminescence energy and linewidth in GaN/AlN stackings of quantum dot planes. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 180-185	2.5	39
421	Optical properties of GaN epilayers and GaN/AlGaN quantum wells grown by molecular beam epitaxy on GaN(0001) single crystal substrate. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 183-187	2.5	39
420	GaInN/GaN multiple-quantum-well light-emitting diodes grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 3616-3618	3.4	39
419	A quantum optical study of thresholdless lasing features in high-Ihitride nanobeam cavities. <i>Nature Communications</i> , <b>2018</b> , 9, 564	17.4	38
418	Time dependence of the photoluminescence of GaN/AlN quantum dots under high photoexcitation. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	38
417	M-Plane GaN/InAlN Multiple Quantum Wells in CoreBhell Wire Structure for UV Emission. <i>ACS Photonics</i> , <b>2014</b> , 1, 38-46	6.3	37
416	94-GHz Large-Signal Operation of AllnN/GaN High-Electron-Mobility Transistors on Silicon With Regrown Ohmic Contacts. <i>IEEE Electron Device Letters</i> , <b>2015</b> , 36, 17-19	4.4	37
415	Thermally induced voltage shift in capacitanceNoltage characteristics and its relation to oxide/semiconductor interface states in Ni/Al2O3/InAlN/GaN heterostructures. <i>Semiconductor Science and Technology</i> , <b>2009</b> , 24, 035008	1.8	37
414	Temperature Dependence of Optical Properties of h-GaN Films Studied by Reflectivity and Ellipsometry. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, 20-25	1.4	37
413	Mg doping for p-type AllnN lattice-matched to GaN. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 082113	3.4	36
412	Enhancement of Auger recombination induced by carrier localization in InGaN/GaN quantum wells. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	35
411	Visible InGaN/GaN Quantum-Dot Materials and Devices. <i>Proceedings of the IEEE</i> , <b>2007</b> , 95, 1853-1865	14.3	35
410	Near infrared absorption and room temperature photovoltaic response in AlNCaN superlattices grown by metal-organic vapor-phase epitaxy. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 041106	3.4	35
409	Comparison of the In distribution in InGaN/GaN quantum well structures grown by molecular beam epitaxy and metalorganic vapor phase epitaxy. <i>Journal of Crystal Growth</i> , <b>2004</b> , 262, 145-150	1.6	35

# (2000-2003)

408	Control of the polarity of GaN films using an Mg adsorption layer. <i>Journal of Crystal Growth</i> , <b>2003</b> , 251, 460-464	1.6	35	
407	Surfactant-mediated molecular-beam epitaxy of IIIIV strained-layer heterostructures. <i>Journal of Crystal Growth</i> , <b>1995</b> , 150, 460-466	1.6	35	
406	Exciton dynamics at a single dislocation in GaN probed by picosecond time-resolved cathodoluminescence. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 042101	3.4	35	
405	Carrier-density-dependent recombination dynamics of excitons and electron-hole plasma in m-plane InGaN/GaN quantum wells. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	34	
404	Microroughness and exciton localization in (Al,Ga)As/GaAs quantum wells. <i>Physical Review B</i> , <b>1997</b> , 55, 5253-5258	3.3	34	
403	Small-signal characteristics of AlinN/GaN HEMTs. <i>Electronics Letters</i> , <b>2006</b> , 42, 779	1.1	34	
402	Observation of long-lived oblique excitons in GaN-AlGaN multiple quantum wells. <i>Physical Review B</i> , <b>1999</b> , 59, 10246-10250	3.3	34	
401	Hot-Electron-Related Degradation in InAlN/GaN High-Electron-Mobility Transistors. <i>IEEE Transactions on Electron Devices</i> , <b>2014</b> , 61, 2793-2801	2.9	33	
400	Ultrahigh-Speed AllnN/GaN High Electron Mobility Transistors Grown on (111) High-Resistivity Silicon withFT= 143 GHz. <i>Applied Physics Express</i> , <b>2010</b> , 3, 094101	2.4	33	
399	Study of the epitaxial relationships between III-nitrides and M-plane sapphire. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 113521	2.5	33	
398	Optical study of segregation effects on the electronic properties of molecular-beam-epitaxy grown (In,Ga)As/GaAs quantum wells. <i>Physical Review B</i> , <b>1997</b> , 55, 2406-2412	3.3	33	
397	Influence of high Mg doping on the microstructural and optoelectronic properties of GaN. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2002</b> , 93, 224-228	3.1	33	
396	Comprehensive description of the dynamical screening of the internal electric fields of AlGaN/GaN quantum wells in time-resolved photoluminescence experiments. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 400-409	2.5	33	
395	GaN/AlGaN quantum wells for UV emission: heteroepitaxy versus homoepitaxy. <i>Semiconductor Science and Technology</i> , <b>2001</b> , 16, 358-361	1.8	33	
394	GaN/AlxGa1⊠N quantum wells grown by molecular beam epitaxy with thickness control at the monolayer scale. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 1260-1262	3.4	33	
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180 179 178	Two-dimensional pseudo-donor@cceptor-pairs@model of recombination dynamics in InGaN/GaN quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 17, 64-67  Localization in highly strained In0.35Ga0.65As/GaAs ultrathin quantum wells. <i>Superlattices and Microstructures</i> , <b>1993</b> , 14, 39  Selective heteroepitaxy on deeply grooved substrate: A route to low cost semipolar GaN platforms of bulk quality. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 082101  Low-temperature growth of n ++-GaN by metalorganic chemical vapor deposition to achieve low-resistivity tunnel junctions on blue light emitting diodes. <i>Semiconductor Science and Technology</i>	3 2.8 3.4	7 7 7	

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