

Nicolas Grandjean

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.

533
papers

15,450
citations

62
h-index

98
g-index

566
ext. papers

16,633
ext. citations

3
avg, IF

6.19
L-index

#	Paper	IF	Citations
533	Near ultraviolet photonic integrated lasers based on silicon nitride. <i>APL Photonics</i> , 2022 , 7, 046108	5.2	1
532	Single photon emission and recombination dynamics in self-assembled GaN/AlN quantum dots.. <i>Light: Science and Applications</i> , 2022 , 11, 114	16.7	4
531	Defect incorporation in In-containing layers and quantum wells: experimental analysis via deep level profiling and optical spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 025108	3	6
530	High conductivity InAlN/GaN multi-channel two-dimensional electron gases. <i>Semiconductor Science and Technology</i> , 2021 , 36, 055020	1.8	3
529	Imaging Nonradiative Point Defects Buried in Quantum Wells Using Cathodoluminescence. <i>Nano Letters</i> , 2021 , 21, 5217-5224	11.5	5
528	Ultrafast-nonlinear ultraviolet pulse modulation in an AlInGaN polariton waveguide operating up to room temperature. <i>Nature Communications</i> , 2021 , 12, 3504	17.4	3
527	Dark-level trapping, lateral confinement, and built-in electric field contributions to the carrier dynamics in c-plane GaN/AlN quantum dots emitting in the UV range. <i>Journal of Applied Physics</i> , 2021 , 129, 054301	2.5	3
526	Smooth GaN membranes by polarization-assisted electrochemical etching. <i>Applied Physics Letters</i> , 2021 , 118, 062107	3.4	3
525	GaN buffer growth temperature and efficiency of InGaN/GaN quantum wells: The critical role of nitrogen vacancies at the GaN surface. <i>Applied Physics Letters</i> , 2021 , 118, 111102	3.4	7
524	Modeling the electrical characteristics of InGaN/GaN LED structures based on experimentally-measured defect characteristics. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 425105	3	2
523	Effects of quantum-well indium content on deep defects and reliability of InGaN/GaN light-emitting diodes with under layer. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 505108	3	0
522	Toward Bright and Pure Single Photon Emitters at 300 K Based on GaN Quantum Dots on Silicon. <i>ACS Photonics</i> , 2020 , 7, 1515-1522	6.3	24
521	Impact of defects on Auger recombination in c-plane InGaN/GaN single quantum well in the efficiency droop regime. <i>Applied Physics Letters</i> , 2020 , 116, 222106	3.4	6
520	Deep traps in InGaN/GaN single quantum well structures grown with and without InGaN underlayers. <i>Journal of Alloys and Compounds</i> , 2020 , 845, 156269	5.7	2
519	III-nitride photonic cavities. <i>Nanophotonics</i> , 2020 , 9, 569-598	6.3	13
518	Doubly resonant second-harmonic generation of a vortex beam from a bound state in the continuum. <i>Optica</i> , 2020 , 7, 1126	8.6	17
517	Broadened Bandwidth Amplified Spontaneous Emission from Blue GaN-Based Short-Cavity Superluminescent Light-Emitting Diodes. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 015019	5	5

516	Effects of 5 MeV electron irradiation on deep traps and electroluminescence from near-UV InGaN/GaN single quantum well light-emitting diodes with and without InAlN superlattice underlayer. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 445111	3	3
515	Interplay of intrinsic and extrinsic states in pinning and passivation of m-plane facets of GaN n-p-n junctions. <i>Journal of Applied Physics</i> , 2020 , 128, 185701	2.5	
514	Effects of InAlN underlayer on deep traps detected in near-UV InGaN/GaN single quantum well light-emitting diodes. <i>Journal of Applied Physics</i> , 2019 , 126, 125708	2.5	14
513	InAlN underlayer for near ultraviolet InGaN based light emitting diodes. <i>Applied Physics Express</i> , 2019 , 12, 034002	2.4	23
512	Density control of GaN quantum dots on AlN single crystal. <i>Applied Physics Letters</i> , 2019 , 114, 082101	3.4	14
511	Short cavity InGaN-based laser diodes with cavity length below 300 nm. <i>Semiconductor Science and Technology</i> , 2019 , 34, 085005	1.8	5
510	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> , 2019 , 34, 015002	1.8	7
509	Impact of Mode-Hopping Noise on InGaN Edge Emitting Laser Relative Intensity Noise Properties. <i>IEEE Journal of Quantum Electronics</i> , 2018 , 54, 1-7	2	5
508	A quantum optical study of thresholdless lasing features in high-nitride nanobeam cavities. <i>Nature Communications</i> , 2018 , 9, 564	17.4	38
507	Optical absorption edge broadening in thick InGaN layers: Random alloy atomic disorder and growth mode induced fluctuations. <i>Applied Physics Letters</i> , 2018 , 112, 032106	3.4	21
506	Impact of surface morphology on the properties of light emission in InGaN epilayers. <i>Applied Physics Express</i> , 2018 , 11, 051004	2.4	5
505	Optical absorption and oxygen passivation of surface states in III-nitride photonic devices. <i>Journal of Applied Physics</i> , 2018 , 123, 113103	2.5	16
504	Near-UV narrow bandwidth optical gain in lattice-matched III-nitride waveguides. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 090305	1.4	1
503	Excited states of neutral donor bound excitons in GaN. <i>Journal of Applied Physics</i> , 2018 , 123, 215702	2.5	3
502	In distribution in InGaN quantum wells: influence of phase separation, In segregation and In desorption 2018 , 285-288		
501	GaN surface as the source of non-radiative defects in InGaN/GaN quantum wells. <i>Applied Physics Letters</i> , 2018 , 113, 111106	3.4	65
500	Alloy disorder limited mobility of InGaN two-dimensional electron gas. <i>Applied Physics Letters</i> , 2018 , 112, 262101	3.4	16
499	Composition Metrology of Ternary Semiconductor Alloys Analyzed by Atom Probe Tomography. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 16704-16714	3.8	16

498	Fermi-level pinning and intrinsic surface states of Al _{1-x} In _x N(101̄0) surfaces. <i>Applied Physics Letters</i> , 2017 , 110, 022104	3.4	4
497	Thin-Wall GaN/InAlN Multiple Quantum Well Tubes. <i>Nano Letters</i> , 2017 , 17, 3347-3355	11.5	9
496	Multilayer porous structures on GaN for the fabrication of Bragg reflectors 2017 ,		3
495	Efficient continuous-wave nonlinear frequency conversion in high-Q gallium nitride photonic crystal cavities on silicon. <i>APL Photonics</i> , 2017 , 2, 031301	5.2	27
494	Enhancement of Auger recombination induced by carrier localization in InGaN/GaN quantum wells. <i>Physical Review B</i> , 2017 , 95,	3.3	35
493	Propagating Polaritons in III-Nitride Slab Waveguides. <i>Physical Review Applied</i> , 2017 , 7,	4.3	19
492	Multilayer porous structures of HVPE and MOCVD grown GaN for photonic applications. <i>Superlattices and Microstructures</i> , 2017 , 102, 221-234	2.8	14
491	Quantification of scattering loss of III-nitride photonic crystal cavities in the blue spectral range. <i>Physical Review B</i> , 2017 , 95,	3.3	9
490	AlN grown on Si(1 1 1) by ammonia-molecular beam epitaxy in the 900–200 °C temperature range. <i>Journal of Crystal Growth</i> , 2017 , 476, 58-63	1.6	31
489	Determining the nature of excitonic dephasing in high-quality GaN/AlGaIn quantum wells through time-resolved and spectrally resolved four-wave mixing spectroscopy. <i>Physical Review B</i> , 2017 , 96,	3.3	6
488	Critical thickness of GaN on AlN: impact of growth temperature and dislocation density. <i>Semiconductor Science and Technology</i> , 2017 , 32, 075010	1.8	23
487	Burying non-radiative defects in InGaIn underlayer to increase InGaIn/GaN quantum well efficiency. <i>Applied Physics Letters</i> , 2017 , 111, 262101	3.4	71
486	Light-emitting diode technology and applications: introduction. <i>Photonics Research</i> , 2017 , 5, LED1	6	3
485	Critical impact of Ehrlich-Schwöbel barrier on GaN surface morphology during homoepitaxial growth. <i>Journal of Crystal Growth</i> , 2016 , 433, 36-42	1.6	45
484	Statistical nanoscale study of localised radiative transitions in GaN/AlGaIn quantum wells and AlGaIn epitaxial layers. <i>Semiconductor Science and Technology</i> , 2016 , 31, 095009	1.8	18
483	Room-Temperature Transport of Indirect Excitons in (Al,Ga)N/GaN Quantum Wells. <i>Physical Review Applied</i> , 2016 , 6,	4.3	16
482	Carrier-density-dependent recombination dynamics of excitons and electron-hole plasma in m-plane InGaIn/GaN quantum wells. <i>Physical Review B</i> , 2016 , 94,	3.3	34
481	Technology of integrated self-aligned E/D-mode n++GaIn/InAlIn/AlIn/GaN MOS HEMTs for mixed-signal electronics. <i>Semiconductor Science and Technology</i> , 2016 , 31, 065011	1.8	9

480	GaN-based superluminescent diodes with long lifetime 2016 ,		6
479	TEM study of defect reduction in the growth of semipolar GaN grown on patterned substrates 2016 , 590-591		
478	§W§ -Band MMIC Amplifiers Based on AlInN/GaN HEMTs Grown on Silicon. <i>IEEE Electron Device Letters</i> , 2016 , 37, 1025-1028	4-4	10
477	Selective heteroepitaxy on deeply grooved substrate: A route to low cost semipolar GaN platforms of bulk quality. <i>Applied Physics Letters</i> , 2016 , 109, 082101	3-4	7
476	GaN superluminescent diodes and their applications 2016 ,		1
475	High p-type GaN for advanced optoelectronic devices 2016 ,		1
474	Far-field coupling in nanobeam photonic crystal cavities. <i>Applied Physics Letters</i> , 2016 , 108, 201104	3-4	4
473	Photocapacitance spectroscopy of InAlN nearly lattice-matched to GaN. <i>Applied Physics Letters</i> , 2016 , 109, 152102	3-4	4
472	Assessing the Composition of Wide Bandgap Compound Semiconductors by Atom Probe Tomography: A Metrological Problem. <i>Microscopy and Microanalysis</i> , 2016 , 22, 650-651	0-5	1
471	Strain and compositional fluctuations in Al _{0.81} In _{0.19} N/GaN heterostructures. <i>Applied Physics Letters</i> , 2016 , 109, 132102	3-4	4
470	Backward diodes using heavily Mg-doped GaN growth by ammonia molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2016 , 108, 072102	3-4	24
469	Exciton dynamics at a single dislocation in GaN probed by picosecond time-resolved cathodoluminescence. <i>Applied Physics Letters</i> , 2016 , 109, 042101	3-4	35
468	Statistical correction of atom probe tomography data of semiconductor alloys combined with optical spectroscopy: The case of Al _{0.25} Ga _{0.75} N. <i>Journal of Applied Physics</i> , 2016 , 119, 105704	2-5	42
467	Optical properties of nearly lattice-matched GaN/(Al,In)N quantum wells. <i>Journal of Applied Physics</i> , 2016 , 119, 205708	2-5	1
466	Vacancy-type defects in Mg-doped GaN grown by ammonia-based molecular beam epitaxy probed using a monoenergetic positron beam. <i>Journal of Applied Physics</i> , 2016 , 119, 245702	2-5	8
465	Low p-type contact resistance by field-emission tunneling in highly Mg-doped GaN. <i>Applied Physics Letters</i> , 2016 , 109, 252101	3-4	8
464	Calcium impurity as a source of non-radiative recombination in (In,Ga)N layers grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2016 , 109, 212103	3-4	17
463	Quantification of roughness and spatial distribution of dislocations in MBE and MOVPE grown LED heterostructures. <i>Materials Science in Semiconductor Processing</i> , 2016 , 55, 12-18	4-3	3

462	InGaN laser diode with metal-free laser ridge using n+-GaN contact layers. <i>Applied Physics Express</i> , 2016 , 9, 061004	2.4	26
461	Continuous wave blue lasing in III-nitride nanobeam cavity on silicon. <i>Nano Letters</i> , 2015 , 15, 1259-63	11.5	44
460	Cavity-enhanced optical Hall effect in two-dimensional free charge carrier gases detected at terahertz frequencies. <i>Optics Letters</i> , 2015 , 40, 2688-91	3	12
459	Capacitance behavior of InAlN Schottky diodes in presence of large concentrations of shallow and deep states related to oxygen. <i>Journal of Applied Physics</i> , 2015 , 117, 185701	2.5	9
458	InGaN based micro light emitting diodes featuring a buried GaN tunnel junction. <i>Applied Physics Letters</i> , 2015 , 107, 051107	3.4	67
457	Phase and Spin Relaxation Dynamics in High-Quality Single GaN/AlGaIn Quantum Well. <i>Springer Proceedings in Physics</i> , 2015 , 14-15	0.2	
456	Transport of dipolar excitons in (Al,Ga)N/GaN quantum wells. <i>Physical Review B</i> , 2015 , 91,	3.3	16
455	Vectorial near-field imaging of a GaN based photonic crystal cavity. <i>Applied Physics Letters</i> , 2015 , 107, 101110	3.4	4
454	GaN L3 Photonic Crystal Cavities With an Average Quality Factor in Excess of 16000 in the Near Infrared 2015 ,		1
453	InGaN laser diodes emitting at 500 nm with p-layers grown by molecular beam epitaxy. <i>Applied Physics Express</i> , 2015 , 8, 022105	2.4	6
452	Solitary pulse-on-demand production by optical injection locking of passively Q-switched InGaIn diode laser near lasing threshold. <i>Applied Physics Letters</i> , 2015 , 106, 071101	3.4	3
451	Self-aligned normally-off metaloxide semiconductor n++GaIn/InAlN/GaN high electron mobility transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 1086-1090	1.6	21
450	94-GHz Large-Signal Operation of AlInN/GaN High-Electron-Mobility Transistors on Silicon With Regrown Ohmic Contacts. <i>IEEE Electron Device Letters</i> , 2015 , 36, 17-19	4.4	37
449	Leakage mechanisms in InAlN based heterostructures. <i>Journal of Applied Physics</i> , 2014 , 115, 074506	2.5	26
448	M-Plane GaIn/InAlN Multiple Quantum Wells in CoreShell Wire Structure for UV Emission. <i>ACS Photonics</i> , 2014 , 1, 38-46	6.3	37
447	Biexcitonic molecules survive excitons at the Mott transition. <i>Nature Communications</i> , 2014 , 5, 5251	17.4	12
446	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> , 2014 , 118, 24136-24151	3.8	114
445	Nano-scale luminescence characterization of individual InGaIn/GaN quantum wells stacked in a microcavity using scanning transmission electron microscope cathodoluminescence. <i>Applied Physics Letters</i> , 2014 , 105, 032101	3.4	28

444	InGaN/GaN quantum wells for polariton laser diodes: Role of inhomogeneous broadening. <i>Journal of Applied Physics</i> , 2014 , 115, 2335-11	2.5	10
443	Hot-Electron-Related Degradation in InAlN/GaN High-Electron-Mobility Transistors. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 2793-2801	2.9	33
442	Thermal stability and in situ SiN passivation of InAlN/GaN high electron mobility heterostructures. <i>Applied Physics Letters</i> , 2014 , 105, 112101	3.4	12
441	Low temperature p-type doping of (Al)GaN layers using ammonia molecular beam epitaxy for InGaN laser diodes. <i>Applied Physics Letters</i> , 2014 , 105, 241103	3.4	15
440	n+-GaN grown by ammonia molecular beam epitaxy: Application to regrown contacts. <i>Applied Physics Letters</i> , 2014 , 105, 202113	3.4	15
439	First demonstration of plasmonic GaN quantum cascade detectors with enhanced efficiency at normal incidence. <i>Optics Express</i> , 2014 , 22, 21069-78	3.3	11
438	Analysis of structurally sensitive loss in GaN-based VCSEL cavities and its effect on modal discrimination. <i>Optics Express</i> , 2014 , 22, 411-26	3.3	28
437	Interaction between meta-materials and shallow donors in bulk GaN at THz frequency. <i>Optics Express</i> , 2014 , 22, 3199-207	3.3	1
436	Shallow donor and deep DX-like center in InAlN layers nearly lattice-matched to GaN. <i>Physical Review B</i> , 2014 , 90,	3.3	11
435	High-temperature Mott transition in wide-band-gap semiconductor quantum wells. <i>Physical Review B</i> , 2014 , 90,	3.3	32
434	Triggering of guiding and antiguiding effects in GaN-based VCSELS 2014 ,		1
433	Gallium nitride L3 photonic crystal cavities with an average quality factor of 16 900 in the near infrared. <i>Applied Physics Letters</i> , 2014 , 105, 231119	3.4	24
432	Ultrathin Body InAlN/GaN HEMTs for High-Temperature (600 $^{\circ}$ C) Electronics. <i>IEEE Electron Device Letters</i> , 2013 , 34, 496-498	4.4	21
431	Optical, structural, and morphological characterisation of epitaxial ZnO films grown by pulsed-laser deposition. <i>Thin Solid Films</i> , 2013 , 539, 55-59	2.2	21
430	AlInN-Based HEMTs for Large-Signal Operation at 40 GHz. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 3091-3098	2.9	24
429	Impact of saturation on the polariton renormalization in III-nitride based planar microcavities. <i>Physical Review B</i> , 2013 , 88,	3.3	16
428	Engineering the Lateral Optical Guiding in Gallium Nitride-Based Vertical-Cavity Surface-Emitting Laser Cavities to Reach the Lowest Threshold Gain. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JG04	1.4	30
427	. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 1514-1516	2.2	6

426	Large-k exciton dynamics in GaN epilayers: Nonthermal and thermal regimes. <i>Physical Review B</i> , 2013 , 87,	3.3	9
425	Intrinsic degradation mechanism of nearly lattice-matched InAlN layers grown on GaN substrates. <i>Journal of Applied Physics</i> , 2013 , 113, 063506	2.5	49
424	Peculiarities in the pressure dependence of photoluminescence in InAlN. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 677-682	1.3	3
423	. <i>IEEE Electron Device Letters</i> , 2013 , 34, 432-434	4.4	27
422	Q-factor of (In,Ga)N containing III-nitride microcavity grown by multiple deposition techniques. <i>Journal of Applied Physics</i> , 2013 , 114, 233102	2.5	10
421	ZrO ₂ /InAlN/GaN Metal Oxide Semiconductor Heterostructure Field-Effect Transistors with InAlN Barrier of Different Compositions. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JN07	1.4	5
420	GaN-on-insulator technology for high-temperature electronics beyond 400 °C. <i>Semiconductor Science and Technology</i> , 2013 , 28, 074026	1.8	15
419	In-depth analysis of injection-seeded long external cavity InGaN/GaN surface-emitting laser. <i>Journal of Applied Physics</i> , 2013 , 113, 043108	2.5	2
418	AlN-Capped AlInN/GaN High Electron Mobility Transistors with 4.5 W/mm Output Power at 40 GHz. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JN16	1.4	5
417	Mode locking in monolithic two-section InGaN blue-violet semiconductor lasers. <i>Applied Physics Letters</i> , 2013 , 102, 121115	3.4	10
416	Ultrathin InAlN/GaN heterostructures on sapphire for high on/off current ratio high electron mobility transistors. <i>Journal of Applied Physics</i> , 2013 , 113, 214503	2.5	16
415	Integrated photonics on silicon with wide bandgap GaN semiconductor. <i>Applied Physics Letters</i> , 2013 , 102, 081120	3.4	47
414	Defect states characterization of non-annealed and annealed ZrO ₂ /InAlN/GaN structures by capacitance measurements. <i>Applied Physics Letters</i> , 2013 , 102, 063502	3.4	8
413	Temperature-Dependence of Exciton Radiative Recombination in (Al,Ga)N/GaN Quantum Wells Grown on a-Plane GaN Substrates. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JC01	1.4	8
412	Growth of Thick GaN Layers by Hydride Vapor Phase Epitaxy on Sapphire Substrate with Internally Focused Laser Processing. <i>Applied Physics Express</i> , 2013 , 6, 035502	2.4	11
411	Properties of InAlN layers nearly lattice-matched to GaN and their use for photonics and electronics 2013 , 177-226		4
410	Toward Quantum Fluids at Room Temperature: Polariton Condensation in III-Nitride Based Microcavities. <i>Springer Series in Solid-state Sciences</i> , 2013 , 201-230	0.4	
409	Explanation of threshold voltage scaling in enhancement-mode InAlN/AlInN/GaN metal oxide semiconductor high electron mobility transistors on Si substrates. <i>Thin Solid Films</i> , 2012 , 520, 6230-6232 ^{2.2}		16

408	Measurement of polarization-induced electric fields in GaN/AlInN quantum wells. <i>Applied Physics Letters</i> , 2012 , 101, 251902	3.4	8
407	Early stage degradation of InAlN/GaN HEMTs during electrical stress 2012 ,		1
406	High quality factor two dimensional GaN photonic crystal cavity membranes grown on silicon substrate. <i>Applied Physics Letters</i> , 2012 , 100, 071103	3.4	50
405	InAlN/GaN HEMTs for Operation in the 1000 μm Regime: A First Experiment. <i>IEEE Electron Device Letters</i> , 2012 , 33, 985-987	4.4	58
404	Generic picture of the emission properties of III-nitride polariton laser diodes: Steady state and current modulation response. <i>Physical Review B</i> , 2012 , 86,	3.3	19
403	Thermal annealing of molecular beam epitaxy-grown InGaN/GaN single quantum well. <i>Semiconductor Science and Technology</i> , 2012 , 27, 105023	1.8	9
402	Thermal carrier emission and nonradiative recombinations in nonpolar (Al,Ga)N/GaN quantum wells grown on bulk GaN. <i>Journal of Applied Physics</i> , 2012 , 111, 033517	2.5	10
401	Mg doping for p-type AlInN lattice-matched to GaN. <i>Applied Physics Letters</i> , 2012 , 101, 082113	3.4	36
400	Blue monolithic AlInN-based vertical cavity surface emitting laser diode on free-standing GaN substrate. <i>Applied Physics Letters</i> , 2012 , 101, 151113	3.4	109
399	A simplified GaN/AlGaIn quantum cascade detector with an alloy extractor. <i>Applied Physics Letters</i> , 2012 , 101, 251101	3.4	19
398	Two-color GaN/AlGaIn quantum cascade detector at short infrared wavelengths of 1 and 1.7 μm . <i>Applied Physics Letters</i> , 2012 , 100, 181103	3.4	43
397	Low loss EEL spectroscopy performed on In _x Al _{1-x} N layers grown by MOVPE: comparison between experiment and ab-initio calculations. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 989-992		2
396	Investigation of InGaIn/GaN quantum wells for polariton laser diodes. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 1325-1329		6
395	GaN on sapphire mesa technology. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 945-948		5
394	Superluminescent light emitting diodes: the best out of two worlds 2012 ,		16
393	Near-infrared characterization of gallium nitride photonic-crystal waveguides and cavities. <i>Optics Letters</i> , 2012 , 37, 4588-90	3	23
392	Optically pumped long external cavity InGaIn/GaN surface-emitting laser with injection seeding from a planar microcavity. <i>Applied Physics Letters</i> , 2012 , 101, 141120	3.4	8
391	Nonlinear emission properties of an optically anisotropic GaN-based microcavity. <i>Physical Review B</i> , 2012 , 86,	3.3	5

390	On the origin of basal stacking faults in nonpolar wurtzite films epitaxially grown on sapphire substrates. <i>Journal of Applied Physics</i> , 2012 , 112, 113518	2.5	20
389	Impact of biexcitons on the relaxation mechanisms of polaritons in III-nitride based multiple quantum well microcavities. <i>Physical Review B</i> , 2012 , 85,	3.3	13
388	Buffer-Related Degradation Aspects of Single and Double-Heterostructure Quantum Well InAlN/GaN High-Electron-Mobility Transistors. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 054102	1.4	2
387	Static and dynamic properties of multi-section InGaN-based laser diodes. <i>Journal of Applied Physics</i> , 2012 , 112, 103112	2.5	10
386	Buffer-Related Degradation Aspects of Single and Double-Heterostructure Quantum Well InAlN/GaN High-Electron-Mobility Transistors. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 054102	1.4	13
385	Advantages and remaining issues of state-of-the-artm-plane freestanding GaN substrates grown by halide vapor phase epitaxy form-plane InGaN epitaxial growth. <i>Semiconductor Science and Technology</i> , 2012 , 27, 024008	1.8	15
384	One-dimensional exciton luminescence induced by extended defects in nonpolar GaN/(Al,Ga)N quantum wells. <i>Semiconductor Science and Technology</i> , 2011 , 26, 025012	1.8	15
383	Recombination coefficients of GaN-based laser diodes. <i>Journal of Applied Physics</i> , 2011 , 109, 093106	2.5	72
382	. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1364-1366	4.4	60
381	Diamond overgrown InAlN/GaN HEMT. <i>Diamond and Related Materials</i> , 2011 , 20, 604-608	3.5	45
380	Effects of the annealing temperature on the structural and electronic properties of MBE grown InGaN/GaN quantum wells. <i>Journal of Physics: Conference Series</i> , 2011 , 326, 012012	0.3	
379	TEM and XANES study of MOVPE grown InAlN layers with different indium content. <i>Journal of Physics: Conference Series</i> , 2011 , 326, 012013	0.3	8
378	Standard-free composition measurements of Al _x In _{1-x} N by low-loss electron energy loss spectroscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 50-52	2.5	14
377	High-speed and low-noise AlInN/GaN HEMTs on SiC. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 429-433	1.6	7
376	Investigation of the In composition in InGaN/GaN quantum wells deposited by MOVPE and/or MBE with emission from violet to green. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 1187-1190	1.3	12
375	Measurement of the tuneable absorption in GaN-based multi-section laser diodes. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 2345-2347		2
374	Time-resolved cathodoluminescence on polychromatic light emitting (In,Ga)N quantum wells grown on (11-22) GaN facets. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1394-1397		5
373	A novel class of coherent light emitters: polariton lasers. <i>Semiconductor Science and Technology</i> , 2011 , 26, 014030	1.8	22

372	Electrical properties of InAlN/GaN high electron mobility transistor with Al ₂ O ₃ , ZrO ₂ , and GdScO ₃ gate dielectrics. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 01A808	1.3	26
371	Self heating in AlInN/AlN/GaN high power devices: Origin and impact on contact breakdown and IV characteristics. <i>Journal of Applied Physics</i> , 2011 , 109, 063720	2.5	21
370	Defects in a-GaN grown on r-sapphire by hydride vapor phase epitaxy. <i>Journal of Crystal Growth</i> , 2011 , 327, 6-12	1.6	5
369	Implementation of Spatio-Time-Resolved Cathodoluminescence Spectroscopy for Studying Local Carrier Dynamics in a Low Dislocation Density m -Plane In _{0.05} Ga _{0.95} N Epilayer Grown on a Freestanding GaN Substrate. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 111002	1.4	6
368	Tailoring the light-matter coupling in anisotropic microcavities: Redistribution of oscillator strength in strained m -plane GaN/AlGaIn quantum wells. <i>Physical Review B</i> , 2011 , 84,	3.3	13
367	Stress-modulated composition in the vicinity of dislocations in nearly lattice matched Al _x In _{1-x} N/GaN heterostructures: A possible explanation of defect insensitivity. <i>Physical Review B</i> , 2011 , 83,	3.3	22
366	Polariton lasing in a hybrid bulk ZnO microcavity. <i>Applied Physics Letters</i> , 2011 , 99, 161104	3.4	81
365	Optical bistability in InGaIn-based multisection laser diodes. <i>Applied Physics Letters</i> , 2011 , 98, 191115	3.4	8
364	Intrinsic dynamics of weakly and strongly confined excitons in nonpolar nitride-based heterostructures. <i>Physical Review B</i> , 2011 , 83,	3.3	26
363	Role of stable and metastable Mg ^{II} complexes in p-type GaN for cw blue laser diodes. <i>Applied Physics Letters</i> , 2011 , 98, 213505	3.4	55
362	Si-interdiffusion in heavily doped AlN-GaN-based quantum well intersubband photodetectors. <i>Applied Physics Letters</i> , 2011 , 98, 241101	3.4	4
361	Strain compensation in AlInN/GaN multilayers on GaN substrates: Application to the realization of defect-free Bragg reflectors. <i>Applied Physics Letters</i> , 2011 , 98, 181111	3.4	51
360	Self-Pulsation at Zero Absorber Bias in GaN-Based Multisection Laser Diodes. <i>Applied Physics Express</i> , 2011 , 4, 062702	2.4	8
359	Implementation of Spatio-Time-Resolved Cathodoluminescence Spectroscopy for Studying Local Carrier Dynamics in a Low Dislocation Density m -Plane In _{0.05} Ga _{0.95} N Epilayer Grown on a Freestanding GaN Substrate. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 111002	1.4	
358	Current transport and barrier height evaluation in Ni/InAlN/GaN Schottky diodes. <i>Applied Physics Letters</i> , 2010 , 96, 223501	3.4	28
357	Exact determination of electrical properties of wurtzite Al _{1-x} In _x N/(AlN)/GaN heterostructures (0.07 x 0.21) by means of a detailed charge balance equation. <i>International Journal of Microwave and Wireless Technologies</i> , 2010 , 2, 13-20	0.8	14
356	AlGaIn-Free Blue III ^{II} nitride Laser Diodes Grown on m -Plane GaN Substrates. <i>Applied Physics Express</i> , 2010 , 3, 092102	2.4	14
355	Ultrahigh-Speed AlInN/GaN High Electron Mobility Transistors Grown on (111) High-Resistivity Silicon with FT= 143 GHz. <i>Applied Physics Express</i> , 2010 , 3, 094101	2.4	33

354	High Power Blue-Violet Superluminescent Light Emitting Diodes with InGaN Quantum Wells. <i>Applied Physics Express</i> , 2010 , 3, 061002	2.4	30
353	Metal-related gate sinking due to interfacial oxygen layer in Ir/InAlN high electron mobility transistors. <i>Applied Physics Letters</i> , 2010 , 96, 263515	3.4	10
352	Exciton recombination dynamics in a-plane (Al,Ga)N/GaN quantum wells probed by picosecond photo and cathodoluminescence. <i>Journal of Applied Physics</i> , 2010 , 107, 043524	2.5	30
351	Sputtering of (001)AlN thin films: Control of polarity by a seed layer. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2010 , 28, L61-L63	1.3	21
350	Bias-dependent absorption coefficient of the absorber section in GaN-based multisection laser diodes. <i>Applied Physics Letters</i> , 2010 , 97, 181103	3.4	10
349	Observation of dodecagon-shape V-defects in GaN/AlInN multiple quantum wells. <i>Applied Physics Letters</i> , 2010 , 97, 161902	3.4	12
348	RF Performance of InAlN/GaN HFETs and MOSHFETs With f_T times L_G up to 21 GHz $\cdot\mu\text{m}$. <i>IEEE Electron Device Letters</i> , 2010 , 31, 180-182	4.4	28
347	Probing exciton density of states through phonon-assisted emission in GaN epilayers: A and B exciton contributions. <i>Physical Review B</i> , 2010 , 82,	3.3	5
346	Characterization of Plasma-Induced Damage of Selectively Recessed GaN/InAlN/AlN/GaN Heterostructures Using SiCl ₄ and SF ₆ . <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 116506	1.4	10
345	High-Mobility AlGaIn/GaN Two-Dimensional Electron Gas Heterostructure Grown on (111) Single Crystal Diamond Substrate. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 061001	1.4	16
344	AlGaIn/GaN HEMT on (111) single crystalline diamond. <i>Electronics Letters</i> , 2010 , 46, 299	1.1	45
343	Emission characteristics of GaN-based blue lasers including a lattice matched Al _{0.83} In _{0.17} N optical blocking layer for improved optical beam quality. <i>Applied Physics Letters</i> , 2010 , 97, 111104	3.4	10
342	Optical and structural properties of an Eu implanted gallium nitride quantum dots/aluminium nitride superlattice. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2473-8	1.3	3
341	Low-Noise Microwave Performance of 0.1 μm Gate AlInN/GaN HEMTs on SiC. <i>IEEE Microwave and Wireless Components Letters</i> , 2010 , 20, 453-455	2.6	16
340	Condensation phase diagram of cavity polaritons in GaN-based microcavities: Experiment and theory. <i>Physical Review B</i> , 2010 , 81,	3.3	80
339	Pinning and depinning of the polarization of exciton-polariton condensates at room temperature. <i>Physical Review Letters</i> , 2010 , 104, 166402	7.4	27
338	Testing the Temperature Limits of GaN-Based HEMT Devices. <i>IEEE Transactions on Device and Materials Reliability</i> , 2010 , 10, 427-436	1.6	92
337	Spin relaxation of free excitons in narrow GaN/Al _x Ga _{1-x} N quantum wells. <i>Physical Review B</i> , 2010 , 82,	3.3	5

336	Study of the epitaxial relationships between III-nitrides and M-plane sapphire. <i>Journal of Applied Physics</i> , 2010 , 108, 113521	2.5	33
335	205-GHz (Al,In)N/GaN HEMTs. <i>IEEE Electron Device Letters</i> , 2010 , 31, 957-959	4.4	111
334	100-nm-Gate (Al,In)N/GaN HEMTs Grown on SiC With $f_{T} = 144$ GHz. <i>IEEE Electron Device Letters</i> , 2010 , 31, 293-295	4.4	23
333	Anomalous composition dependence of the band gap pressure coefficients in In-containing nitride semiconductors. <i>Physical Review B</i> , 2010 , 81,	3.3	26
332	Growth of intersubband GaN/AlGaN heterostructures 2010 ,		3
331	Proposal and Performance Analysis of Normally Off n^{++} GaN/InAlN/AlN/GaN HEMTs With 1-nm-Thick InAlN Barrier. <i>IEEE Transactions on Electron Devices</i> , 2010 , 57, 2144-2154	2.9	26
330	Thermal oxidation of lattice matched InAlN/GaN heterostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 13-16		12
329	Optimization of the ohmic contact processing in InAlN//GaN high electron mobility transistors for lower temperature of annealing. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 108-111		6
328	Low-temperature time-resolved cathodoluminescence study of exciton dynamics involving basal stacking faults in a-plane GaN. <i>Applied Physics Letters</i> , 2009 , 94, 201115	3.4	39
327	Phase diagram of a polariton laser from cryogenic to room temperature. <i>Physical Review B</i> , 2009 , 80,	3.3	29
326	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> , 2009 , 105, 043102	2.5	65
325	InAlN/GaN metal-oxide-semiconductor high electron mobility transistor with Al ₂ O ₃ insulating films grown by metal organic chemical vapor deposition using Ar and NH ₃ carrier gases. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 218		10
324	Different pressure behavior of GaN/AlGaN quantum structures grown along polar and nonpolar crystallographic directions. <i>Journal of Applied Physics</i> , 2009 , 105, 063104	2.5	19
323	Interface States and Trapping Effects in Al ₂ O ₃ - and ZrO ₂ /InAlN/AlN/GaN MetalOxideSemiconductor Heterostructures. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 090201	1.4	13
322	In-Plane Polarities of Nonpolar Wurtzite Epitaxial Films Deposited on m- and r-plane Sapphire Substrates. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 090211	1.4	11
321	Al _{0.83} In _{0.17} N lattice-matched to GaN used as an optical blocking layer in GaN-based edge emitting lasers. <i>Applied Physics Letters</i> , 2009 , 94, 193506	3.4	28
320	Room temperature polariton lasing in III-nitride microcavities: a comparison with blue GaN-based vertical cavity surface emitting lasers 2009 ,		19
319	Off-state breakdown in InAlN/AlN/GaN high electron mobility transistors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, S925-S928		14

318	Homogeneous and inhomogeneous linewidth broadening of single polar GaN/AlN quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, S598-S601		11
317	Tailoring the strong coupling regime in III-nitride based microcavities for room temperature polariton laser applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 2820-2827		7
316	GaN grown on (111) single crystal diamond substrate by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2009 , 311, 4539-4542	1.6	20
315	Thermally induced voltage shift in capacitance-voltage characteristics and its relation to oxide/semiconductor interface states in Ni/Al ₂ O ₃ /InAlN/GaN heterostructures. <i>Semiconductor Science and Technology</i> , 2009 , 24, 035008	1.8	37
314	Quantum confinement dependence of the energy splitting and recombination dynamics of A and B excitons in a GaN/AlGaIn quantum well. <i>Physical Review B</i> , 2009 , 79,	3-3	6
313	102-GHz AlInN/GaN HEMTs on Silicon With 2.5-W/mm Output Power at 10 GHz. <i>IEEE Electron Device Letters</i> , 2009 , 30, 796-798	4-4	42
312	Ultrathin InAlN/AlN Barrier HEMT With High Performance in Normally Off Operation. <i>IEEE Electron Device Letters</i> , 2009 , 30, 1030-1032	4-4	48
311	Au Free Ohmic Contacts for High Temperature InAlN/GaN HEMT's. <i>ECS Transactions</i> , 2009 , 25, 33-36	1	3
310	Current collapse reduction in InAlN/GaN MOS HEMTs by in situ surface pre-treatment and atomic layer deposition of ZrO ₂ high-k gate dielectrics. <i>Electronics Letters</i> , 2009 , 45, 570	1-1	17
309	InAlN/GaN MOSHEMT With Self-Aligned Thermally Generated Oxide Recess. <i>IEEE Electron Device Letters</i> , 2009 , 30, 1131-1133	4-4	48
308	Broadband blue superluminescent light-emitting diodes based on GaN. <i>Applied Physics Letters</i> , 2009 , 95, 081107	3-4	62
307	Analysis of degradation mechanisms in lattice-matched InAlN/GaN high-electron-mobility transistors. <i>Journal of Applied Physics</i> , 2009 , 106, 124503	2-5	84
306	High reflectivity airgap distributed Bragg reflectors realized by wet etching of AlInN sacrificial layers. <i>Applied Physics Letters</i> , 2009 , 95, 191102	3-4	10
305	M-Plane GaN Grown on m-Plane Sapphire by Hydride Vapor Phase Epitaxy. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 020226	1-4	18
304	InAlN/GaN heterostructures for microwave power and beyond 2009 ,		1
303	Polarization field mapping of Al _{0.85} In _{0.15} N/AlN/GaN heterostructure. <i>Applied Physics Letters</i> , 2009 , 94, 121909	3-4	26
302	Combining diamond electrodes with GaN heterostructures for harsh environment ISFETs. <i>Diamond and Related Materials</i> , 2009 , 18, 884-889	3-5	23
301	Mapping Polarization Fields in Al _{0.85} In _{0.15} N/AlN/GaN Heterostructures. <i>Microscopy and Microanalysis</i> , 2009 , 15, 1048-1049	0-5	

300	Stress Modulated Composition Fluctuation and Diffusion in near lattice match AlInN/GaN. <i>Microscopy and Microanalysis</i> , 2009 , 15, 1020-1021	0.5	
299	Temperature mapping of Al _{0.85} In _{0.15} N/AlN/GaN high electron mobility transistors through micro-photoluminescence studies. <i>EPJ Applied Physics</i> , 2009 , 47, 30301	1.1	5
298	Technology and Performance of InAlN/AlN/GaN HEMTs With Gate Insulation and Current Collapse Suppression Using ZrO ₂ or HfO ₂ . <i>IEEE Transactions on Electron Devices</i> , 2008 , 55, 937-941	2.9	76
297	Impact of quantum confinement and quantum confined Stark effect on biexciton binding energy in GaN/AlGaIn quantum wells. <i>Applied Physics Letters</i> , 2008 , 93, 152105	3.4	10
296	Effects of Polarization in Optoelectronic Quantum Structures 2008 , 467-511		5
295	Suppression of leakage currents in GaN-based LEDs induced by reactive-ion etching damages. <i>EPJ Applied Physics</i> , 2008 , 43, 51-53	1.1	3
294	Lattice-Matched GaN/AlN Waveguides at $\lambda=1.55 \mu\text{m}$ Grown by Metal-Organic Vapor Phase Epitaxy. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 102-104	2.2	21
293	Complex behavior of biexcitons in GaN quantum dots due to a giant built-in polarization field. <i>Physical Review B</i> , 2008 , 77,	3.3	61
292	Large vacuum Rabi splitting in a multiple quantum well GaN-based microcavity in the strong-coupling regime. <i>Physical Review B</i> , 2008 , 77,	3.3	71
291	High quality nitride based microdisks obtained via selective wet etching of AlInN sacrificial layers. <i>Applied Physics Letters</i> , 2008 , 92, 171102	3.4	50
290	Barrier-Layer Scaling of InAlN/GaN HEMTs. <i>IEEE Electron Device Letters</i> , 2008 , 29, 422-425	4.4	95
289	Two-dimensional electron gas density in Al _{1-x} In _x N/AlN/GaN heterostructures (0.03 ≤ x ≤ 0.23). <i>Journal of Applied Physics</i> , 2008 , 103, 093714	2.5	138
288	Nonpolar GaN-based microcavity using AlN/GaN distributed Bragg reflector. <i>Applied Physics Letters</i> , 2008 , 92, 061114	3.4	10
287	Effect of fluoride plasma treatment on InAlN/GaN HEMTs. <i>Electronics Letters</i> , 2008 , 44, 696	1.1	17
286	Blue laser diodes including lattice-matched Al _{0.83} In _{0.17} N bottom cladding layer. <i>Electronics Letters</i> , 2008 , 44, 521	1.1	22
285	High doping level in Mg-doped GaN layers grown at low temperature. <i>Journal of Applied Physics</i> , 2008 , 103, 013110	2.5	41
284	Biexciton kinetics in GaN quantum wells: Time-resolved and time-integrated photoluminescence measurements. <i>Physical Review B</i> , 2008 , 77,	3.3	14
283	Effects of strain and composition on the lattice parameters and applicability of Vegard's rule in Al-rich Al _{1-x} In _x N films grown on sapphire. <i>Journal of Applied Physics</i> , 2008 , 103, 103513	2.5	52

282	Pressure-induced piezoelectric effects in near-lattice-matched GaN/AlInN quantum wells. <i>Journal of Applied Physics</i> , 2008 , 104, 063505	2.5	9
281	Built-in electric field and large Stokes shift in near-lattice-matched GaN/AlInN quantum wells. <i>Applied Physics Letters</i> , 2008 , 92, 201901	3.4	19
280	Effect of Anodic Oxidation on the Characteristics of Lattice-Matched AlInN/GaN Heterostructures. <i>Journal of Electronic Materials</i> , 2008 , 37, 616-623	1.9	10
279	Influence of GaN capping on performance of InAlN/AlN/GaN MOS-HEMT with Al ₂ O ₃ gate insulation grown by CVD. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 1956-1958		7
278	Biexciton recombination in high quality GaN/AlGaIn quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 2254-2256		
277	Strain and compositional analyses of Al-rich Al _{1-x} In _x N films grown by MOVPE: impact on the applicability of Vegard's rule. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 1859-1862		1
276	Spontaneous polarization buildup in a room-temperature polariton laser. <i>Physical Review Letters</i> , 2008 , 101, 136409	7.4	163
275	Room temperature polariton lasing in a GaN/AlGaIn multiple quantum well microcavity. <i>Applied Physics Letters</i> , 2008 , 93, 051102	3.4	232
274	Status of the Emerging InAlN/GaN Power HEMT Technology. <i>Open Electrical and Electronic Engineering Journal</i> , 2008 , 2, 1-7	0	48
273	Barrier layer downscaling of InAlN/GaN HEMTs. <i>Device Research Conference, IEEE Annual</i> , 2007 ,		6
272	Selective etching of AlInN/GaN heterostructures for MEMS technology. <i>Microelectronic Engineering</i> , 2007 , 84, 1152-1156	2.5	12
271	a-plane GaN grown on r-plane sapphire substrates by hydride vapor phase epitaxy. <i>Journal of Crystal Growth</i> , 2007 , 300, 186-189	1.6	21
270	Strain relaxation of AlN epilayers for Stranski-Krastanov GaN/AlN quantum dots grown by metal organic vapor phase epitaxy. <i>Journal of Crystal Growth</i> , 2007 , 299, 254-258	1.6	5
269	Radiative lifetime in wurtzite GaN/AlN quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 183-186		1
268	Nitride-based heterostructures grown by MOCVD for near- and mid-infrared intersubband transitions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 1100-1104	1.6	3
267	Gate-lag and drain-lag effects in (GaN)/InAlN/GaN and InAlN/AlN/GaN HEMTs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 2019-2022	1.6	39
266	Room-temperature polariton lasing in semiconductor microcavities. <i>Physical Review Letters</i> , 2007 , 98, 126405	7.4	710
265	Growth mode induced carrier localization in InGaIn/GaN quantum wells. <i>Philosophical Magazine</i> , 2007 , 87, 2067-2075	1.6	7

264	Blue lasing at room temperature in an optically pumped lattice-matched AlInN/GaN VCSEL structure. <i>Electronics Letters</i> , 2007 , 43, 924	1.1	45
263	Evaluation of AlInN/GaN HEMTs on sapphire substrate in microwave, time and temperature domains. <i>Electronics Letters</i> , 2007 , 43, 309	1.1	16
262	Strain-induced interface instability in GaN/AlN multiple quantum wells. <i>Applied Physics Letters</i> , 2007 , 91, 061927	3.4	32
261	MOCVD of HfO ₂ and ZrO ₂ high-k gate dielectrics for InAlN/AlN/GaN MOS-HEMTs. <i>Semiconductor Science and Technology</i> , 2007 , 22, 1272-1275	1.8	54
260	Blue lasing at room temperature in high quality factor GaN/AlInN microdisks with InGaN quantum wells. <i>Applied Physics Letters</i> , 2007 , 90, 061106	3.4	47
259	Efficient current injection scheme for nitride vertical cavity surface emitting lasers. <i>Applied Physics Letters</i> , 2007 , 90, 033514	3.4	26
258	Narrow UV emission from homogeneous GaN/AlGaIn quantum wells. <i>Applied Physics Letters</i> , 2007 , 90, 021905	3.4	21
257	ABOVE 2 A/mm DRAIN CURRENT DENSITY OF GaN HEMTs GROWN ON SAPPHIRE. <i>International Journal of High Speed Electronics and Systems</i> , 2007 , 17, 91-95	0.5	4
256	Visible InGaIn/GaN Quantum-Dot Materials and Devices. <i>Proceedings of the IEEE</i> , 2007 , 95, 1853-1865	14.3	35
255	Current status of AlInN layers lattice-matched to GaN for photonics and electronics. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 6328-6344	3	278
254	AlInN/GaN a suitable HEMT device for extremely high power high frequency applications 2007 ,		5
253	Thermal stability of 5 nm barrier InAlN/GaN HEMTs 2007 ,		2
252	Gate insulation and drain current saturation mechanism in InAlN/GaN metal-oxide-semiconductor high-electron-mobility transistors. <i>Applied Physics Letters</i> , 2007 , 91, 043509	3.4	59
251	Small-signal characteristics of AlInN/GaN HEMTs. <i>Electronics Letters</i> , 2006 , 42, 779	1.1	34
250	Strong electric field and nonuniformity effects in GaN/AlN quantum dots revealed by high pressure studies. <i>Applied Physics Letters</i> , 2006 , 89, 051902	3.4	6
249	Indium surfactant effect on AlInN/GaN heterostructures grown by metal-organic vapor-phase epitaxy: Applications to intersubband transitions. <i>Applied Physics Letters</i> , 2006 , 88, 151902	3.4	48
248	Crack-free highly reflective AlInN/AlGaIn Bragg mirrors for UV applications. <i>Applied Physics Letters</i> , 2006 , 88, 051108	3.4	73
247	High electron mobility lattice-matched AlInN/GaN field-effect transistor heterostructures. <i>Applied Physics Letters</i> , 2006 , 89, 062106	3.4	253

246	Room-temperature polariton luminescence from a bulk GaN microcavity. <i>Physical Review B</i> , 2006 , 73,	3-3	70
245	High spatial resolution picosecond cathodoluminescence of InGaN quantum wells. <i>Applied Physics Letters</i> , 2006 , 89, 232109	3-4	70
244	Impact of disorder on high quality factor III-V nitride microcavities. <i>Applied Physics Letters</i> , 2006 , 89, 261101	3-4	64
243	Can InAlN/GaN be an alternative to high power / high temperature AlGaIn/GaN devices? 2006 ,		82
242	Impact of inhomogeneous excitonic broadening on the strong exciton-photon coupling in quantum well nitride microcavities. <i>Physical Review B</i> , 2006 , 73,	3-3	44
241	High quality thin GaN templates grown by hydride vapor phase epitaxy on sapphire substrates. <i>Applied Physics Letters</i> , 2006 , 88, 241914	3-4	26
240	Stranski-Krastanov GaN/AlN quantum dots grown by metal organic vapor phase epitaxy. <i>Journal of Applied Physics</i> , 2006 , 99, 083509	2-5	27
239	Near infrared absorption and room temperature photovoltaic response in AlInGaIn superlattices grown by metal-organic vapor-phase epitaxy. <i>Applied Physics Letters</i> , 2006 , 89, 041106	3-4	35
238	Room temperature polariton luminescence from a GaN/AlGaIn quantum well microcavity. <i>Applied Physics Letters</i> , 2006 , 89, 071107	3-4	26
237	Radiative lifetime of a single electron-hole pair in GaN/AlN quantum dots. <i>Physical Review B</i> , 2006 , 73,	3-3	101
236	Solar blind AlGaIn photodetectors with a very high spectral selectivity. <i>EPJ Applied Physics</i> , 2006 , 33, 5-7	1-1	6
235	Stress control in GaN/sapphire templates for the fabrication of crack-free thick layers. <i>Journal of Crystal Growth</i> , 2006 , 289, 445-449	1-6	20
234	Crack-free fully epitaxial nitride microcavity using highly reflective AlInGaIn Bragg mirrors. <i>Applied Physics Letters</i> , 2005 , 86, 031107	3-4	98
233	Inhomogeneous broadening of Al _x Ga _{1-x} InGaIn quantum wells. <i>Physical Review B</i> , 2005 , 71,	3-3	40
232	Surface morphology of AlN and size dispersion of GaN quantum dots. <i>Journal of Crystal Growth</i> , 2005 , 274, 387-393	1-6	9
231	Solar blind detectors based on AlGaIn grown on sapphire. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 964-971		11
230	Progresses in III-nitride distributed Bragg reflectors and microcavities using AlInGaIn materials. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 2326-2344	1-3	124
229	Lattice-matched distributed Bragg reflectors for nitride-based vertical cavity surface emitting lasers. <i>Electronics Letters</i> , 2005 , 41, 94	1-1	42

228	Submicron periodic poling and chemical patterning of GaN. <i>Applied Physics Letters</i> , 2005 , 87, 062106	3.4	24
227	Midinfrared intersubband absorption in lattice-matched AlInN/GaN multiple quantum wells. <i>Applied Physics Letters</i> , 2005 , 87, 111106	3.4	78
226	Selective oxidation of AlInN layers for current confinement in IIIbNitride devices. <i>Applied Physics Letters</i> , 2005 , 87, 072102	3.4	24
225	Internal photoemission in solar blind AlGaIn Schottky barrier photodiodes. <i>Applied Physics Letters</i> , 2005 , 86, 063511	3.4	12
224	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> , 2005 , 44, 7207-7216	1.4	79
223	Observation and modeling of the time-dependent descreening of internal electric field in a wurtzite GaN/Al _{0.15} Ga _{0.85} N quantum well after high photoexcitation. <i>Physical Review B</i> , 2004 , 69,	3.3	48
222	Optical and structural characterization of self-organized stacked GaN/AlN quantum dots. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S115-S126	1.8	22
221	UV Metal Semiconductor Metal Detectors 2004 , 77-92		2
220	Multilayer (Al,Ga)N structures for solar-blind detection. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2004 , 10, 752-758	3.8	21
219	Nontrivial carrier recombination dynamics and optical properties of over-excited GaN/AlN quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 2779-2782	1.3	1
218	Observation of localization effects in InGaIn/GaN quantum structures by means of the application of hydrostatic pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 3285-3292	1.3	5
217	Optical detection of 2DEG in GaN/AlGaIn structures [High magnetic field studies. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 193-197		
216	Spectroscopy of the electron states in self-organized GaN/AlN quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 1456-1460		3
215	About some optical properties of Al _x Ga _{1-x} N /GaN quantum wells grown by molecular beam epitaxy. <i>Superlattices and Microstructures</i> , 2004 , 36, 659-674	2.8	15
214	Micro-photoluminescence of GaN quantum dots embedded in 100 nm wide cylindrical AlN pillars. <i>Superlattices and Microstructures</i> , 2004 , 36, 783-790	2.8	1
213	Comparison of the In distribution in InGaIn/GaN quantum well structures grown by molecular beam epitaxy and metalorganic vapor phase epitaxy. <i>Journal of Crystal Growth</i> , 2004 , 262, 145-150	1.6	35
212	Polarity inversion of GaN(0001) by a high Mg doping. <i>Journal of Crystal Growth</i> , 2004 , 269, 249-256	1.6	61
211	Photoluminescence energy and linewidth in GaN/AlN stackings of quantum dot planes. <i>Journal of Applied Physics</i> , 2004 , 96, 180-185	2.5	39

210	Spin and interaction effects in Shubnikov-de Haas oscillations and the quantum Hall effect in GaN/AlGaN heterostructures. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 3421-3432	1.8	19
209	Blue Resonant Cavity Light Emitting Diodes with a High-Al-Content GaN/AlGaN Distributed Bragg Reflector. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L1509-L1511	1.4	14
208	High Performance Solar Blind Detectors based on AlGaIn grown by MBE and MOCVD. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 798, 307		1
207	Microcavity Light Emitting Diodes Based on GaN membranes Grown by Molecular Beam Epitaxy on Silicon. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 118-121	1.4	2
206	Comprehensive description of the dynamical screening of the internal electric fields of AlGaIn/GaN quantum wells in time-resolved photoluminescence experiments. <i>Journal of Applied Physics</i> , 2003 , 93, 400-409	2.5	33
205	Contribution to quantitative measurement of the In composition in GaN/InGaIn multilayers. <i>Materials Chemistry and Physics</i> , 2003 , 81, 273-276	4.4	2
204	Cathodoluminescence study of the excitons localization in AlGaIn/GaN and InGaIn/GaN quantum wells grown on sapphire. <i>Journal of Crystal Growth</i> , 2003 , 247, 284-290	1.6	1
203	MBE growth of AlGaIn/GaN HEMTs on resistive Si(1 1 1) substrate with RF small signal and power performances. <i>Journal of Crystal Growth</i> , 2003 , 251, 811-815	1.6	27
202	Control of the polarity of GaN films using an Mg adsorption layer. <i>Journal of Crystal Growth</i> , 2003 , 251, 460-464	1.6	35
201	Intraband spectroscopy of self-organized GaN/AlN quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 17, 60-63	3	5
200	Two-dimensional pseudo-donor-acceptor-pairs model of recombination dynamics in InGaIn/GaN quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 17, 64-67	3	7
199	RBS studies of AlGaIn/AlN Bragg reflectors. <i>Physica Status Solidi A</i> , 2003 , 195, 502-507		3
198	Residual donors in wurtzite GaN homoepitaxial layers and heterostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 235, 20-25	1.3	
197	Optical properties of GaN/AlN quantum boxes under high photo-excitation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 2666-2669		1
196	AlGaIn/GaN HEMTs on Resistive Si(111) Substrate: From Material Assessment to RF Power Performances. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 61-64		1
195	In surface segregation in InGaIn/GaN quantum wells. <i>Journal of Crystal Growth</i> , 2003 , 251, 471-475	1.6	48
194	Time dependence of the photoluminescence of GaN/AlN quantum dots under high photoexcitation. <i>Physical Review B</i> , 2003 , 68,	3.3	38
193	Spectroscopy of Intraband Electron Confinement in Self-Assembled GaN/AlN Quantum Dots. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 798, 575		

192	High-Al-content crack-free AlGa _N /Ga _N Bragg mirrors grown by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2003 , 82, 499-501	3.4	43
191	Intraband absorptions in Ga _N /Al _N quantum dots in the wavelength range of 1.27-1.4 μm. <i>Applied Physics Letters</i> , 2003 , 82, 868-870	3.4	48
190	High-temperature annealing of AlGa _N : Stress, structural, and compositional changes. <i>Journal of Applied Physics</i> , 2003 , 94, 6366-6371	2.5	6
189	Solar Blind (Al,Ga) _N Metal-Semiconductor-Metal Devices for High Performance Flame Detection. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 764, 1		1
188	Localization Effects in Ga _N /AlGa _N Quantum Well - Photoluminescence Studies. <i>Acta Physica Polonica A</i> , 2003 , 103, 573-578	0.6	1
187	Exciton Oscillator Strength in Ga _N /AlGa _N Quantum Wells. <i>Physica Status Solidi A</i> , 2002 , 190, 129-133		
186	Optical Investigations and Absorption Coefficient Determination of InGa _N /Ga _N Quantum Wells. <i>Physica Status Solidi A</i> , 2002 , 190, 135-140		12
185	The Effects of Localization and of Electric Fields on LO-Phonon-Exciton Coupling in InGa _N /Ga _N Quantum Wells and Quantum Boxes. <i>Physica Status Solidi A</i> , 2002 , 190, 149-154		14
184	Steady-State and Time-Resolved Near-Field Optical Spectroscopy of Ga _N /Al _N Quantum Dots and InGa _N /Ga _N Quantum Wells. <i>Physica Status Solidi A</i> , 2002 , 190, 155-160		5
183	Resonant and Non-Resonant Dynamics of Excitons and Free Carriers in Ga _N /AlGa _N Quantum Wells. <i>Physica Status Solidi A</i> , 2002 , 190, 87-92		5
182	Injection Dependence of the Electroluminescence Spectra of Phosphor Free Ga _N -Based White Light Emitting Diodes. <i>Physica Status Solidi A</i> , 2002 , 192, 139-143		41
181	Structural Defects and Relation with Optoelectronic Properties in Highly Mg-Doped Ga _N . <i>Physica Status Solidi A</i> , 2002 , 192, 394-400		28
180	In K-edge extended X-ray absorption fine structure of InGa _N epilayers and quantum boxes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002 , 93, 150-153	3.1	3
179	Influence of high Mg doping on the microstructural and optoelectronic properties of Ga _N . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002 , 93, 224-228	3.1	33
178	Optical investigation of micrometer and nanometer-size individual Ga _N pillars fabricated by reactive ion etching. <i>Journal of Applied Physics</i> , 2002 , 91, 6520	2.5	27
177	Raman scattering in Ga _N pillar arrays. <i>Journal of Applied Physics</i> , 2002 , 91, 2866-2869	2.5	18
176	Observation of magnetophotoluminescence from a Ga _N /Al _x Ga _{1-x} N heterojunction. <i>Physical Review B</i> , 2002 , 65,	3.3	5
175	Submicron metal-semiconductor-metal ultraviolet detectors based on AlGa _N grown on silicon: Results and simulation. <i>Journal of Applied Physics</i> , 2002 , 92, 5602-5604	2.5	25

174	Study of light emission from GaN/AlGaIn quantum wells under power-dependent excitation. <i>Journal of Applied Physics</i> , 2002 , 91, 9622	2.5	14
173	Field distribution and collection efficiency in an AlGaIn metal-semiconductor-metal detector. <i>Journal of Applied Physics</i> , 2002 , 91, 6095-6098	2.5	4
172	Occurrence of Accidental In Quantum Dots in Indium Gallium Nitride/Gallium Nitride Heterostructures. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 737, 195		
171	Microscopic Description of Radiative Recombinations in InGaIn/GaN Quantum Systems. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 743, L5.5.1		1
170	Indium distribution inside quantum wells: The effect of growth interruption in MBE. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 743, L6.6.1		
169	Acoustic phonon scattering of two-dimensional electrons in GaN/AlGaIn heterostructures. <i>Applied Physics Letters</i> , 2002 , 80, 1228-1230	3.4	46
168	Large size dependence of exciton-longitudinal-optical-phonon coupling in nitride-based quantum wells and quantum boxes. <i>Applied Physics Letters</i> , 2002 , 80, 428-430	3.4	62
167	The Effects of Localization and of Electric Fields on LO-Phonon Exciton Coupling in InGaIn/GaN Quantum Wells and Quantum Boxes 2002 , 190, 149		1
166	Photoluminescence properties of multiple stacked planes of GaN/AlN quantum dots studied by near-field optical microscopy. <i>Journal of Microscopy</i> , 2001 , 202, 212-7	1.9	4
165	Cw and time-resolved spectroscopy in homoepitaxial GaN films and GaN/GaAlN quantum wells grown by molecular beam epitaxy. <i>Solid State Communications</i> , 2001 , 117, 445-448	1.6	6
164	Selective photoluminescence spectroscopy of shallow levels in wide band gap semiconductors. <i>Physica B: Condensed Matter</i> , 2001 , 302-303, 39-53	2.8	17
163	InGaIn/GaN quantum wells grown by molecular beam epitaxy emitting at 300 K in the whole visible spectrum. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 82, 224-226	3.1	2
162	Surface morphology of GaN grown by molecular beam epitaxy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 82, 56-58	3.1	14
161	Time-resolved spectroscopy of MBE-grown GaN/AlGaIn hetero- and homo-epitaxial quantum wells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 82, 140-142	3.1	4
160	Modelling of absorption and emission spectra of In _x Ga _{1-x} N layers grown by MBE. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 82, 71-73	3.1	1
159	Optoelectronic characterization of blue InGaIn/GaN LEDs grown by MBE. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 82, 256-258	3.1	8
158	Confined exciton-polariton modes in a thin, homo-epitaxial, GaN film grown by molecular beam epitaxy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 82, 173-177	3.1	2
157	Optical properties of self-assembled InGaIn/GaN quantum dots. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 82, 151-155	3.1	5

156	Photoconducance measurements and Stokes shift in InGaN alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 82, 197-199	3.1	4
155	Near-Field Optical Spectroscopy of Multiple Stacked Planes of GaN/AlN Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 224, 53-56	1.3	4
154	Dual Contribution to the Stokes Shift in InGaN/GaN Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 228, 111-114	1.3	9
153	Photoluminescence Excitation Spectroscopy of MBE Grown InGaN Quantum Wells and Quantum Boxes. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 228, 129-132	1.3	5
152	Carrier Dynamics in Group-III Nitride Low-Dimensional Systems: Localization versus Quantum-Confined Stark Effect. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 228, 65-72	1.3	13
151	Phonon Replica Dynamics in High Quality GaN Epilayers and AlGaIn/GaN Quantum Wells. <i>Physica Status Solidi A</i> , 2001 , 183, 129-134		6
150	Absorption and Emission of (In,Ga)N/GaN Quantum Wells Grown by Molecular Beam Epitaxy. <i>Physica Status Solidi A</i> , 2001 , 183, 139-143		4
149	Inelastic Light Scattering by Phonons in Hexagonal GaN/AlN Nanostructures. <i>Physica Status Solidi A</i> , 2001 , 183, 157-161		28
148	Dielectric Microcavity in GaN/Si. <i>Physica Status Solidi A</i> , 2001 , 183, 35-39		9
147	Reduction of Carrier In-Plane Mobility in Group-III Nitride Based Quantum Wells: The Role of Internal Electric Fields. <i>Physica Status Solidi A</i> , 2001 , 183, 61-66		12
146	High Performance Solar Blind Detectors Based on AlGaIn Grown by MBE on Si. <i>Physica Status Solidi A</i> , 2001 , 188, 325-328		13
145	Molecular Beam Epitaxy of Group-III Nitrides on Silicon Substrates: Growth, Properties and Device Applications. <i>Physica Status Solidi A</i> , 2001 , 188, 501-510		131
144	Potentialities of GaN-Based Microcavities Grown on Silicon Substrates. <i>Physica Status Solidi A</i> , 2001 , 188, 519-522		1
143	Large Built-in Electric Field and Its Influence on the Pressure Behavior of the Light Emission from GaN/AlGaIn Strained Quantum Wells. <i>Physica Status Solidi A</i> , 2001 , 188, 839-843		4
142	Recombination Dynamics in GaN/AlGaIn Quantum Wells: The Role of Built-in Fields. <i>Physica Status Solidi A</i> , 2001 , 188, 851-855		6
141	InGaIn heterostructures grown by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2001 , 227-228, 466-470	1.6	15
140	Magneto-photoluminescence of AlGaIn/GaN quantum wells. <i>Journal of Crystal Growth</i> , 2001 , 230, 487-491	1.6	4
139	Electric-field-induced impact ionization of excitons in GaN and GaN/AlGaIn quantum wells. <i>Physics of the Solid State</i> , 2001 , 43, 2321-2327	0.8	2

138	Fabrication of GaN photonic crystals for 400 nm wavelength. <i>Microelectronic Engineering</i> , 2001 , 57-58, 843-849	2.5	14
137	GaN/AlGa _x N quantum wells for UV emission: heteroepitaxy versus homoepitaxy. <i>Semiconductor Science and Technology</i> , 2001 , 16, 358-361	1.8	33
136	Impact ionization of excitons in an electric field in GaN. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 7043-7052	1.8	5
135	Group-III nitride quantum heterostructures grown by molecular beam epitaxy. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 6945-6960	1.8	55
134	Effects of GaAlN barriers and of dimensionality on optical recombination processes in InGa _x N quantum wells and quantum boxes. <i>Applied Physics Letters</i> , 2001 , 78, 1538-1540	3.4	50
133	High-electron-mobility AlGa _x N/GaN heterostructures grown on Si(111) by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2001 , 78, 335-337	3.4	115
132	Extremely sharp dependence of the exciton oscillator strength on quantum-well width in the GaN/Al _x Ga _{1-x} N system: The polarization field effect. <i>Physical Review B</i> , 2001 , 64,	3.3	21
131	Monolithic White Light Emitting Diodes Based on InGa _x N/GaN Multiple-Quantum Wells. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, L918-L920	1.4	100
130	Magnetophotoluminescence of GaN/Al _x Ga _{1-x} N quantum wells: Valence band reordering and excitonic binding energies. <i>Physical Review B</i> , 2001 , 63,	3.3	13
129	Influence of pressure on the optical properties of In _x Ga _{1-x} N epilayers and quantum structures. <i>Physical Review B</i> , 2001 , 64,	3.3	61
128	Photoluminescence spectroscopy on annealed molecular beam epitaxy grown GaN. <i>Journal of Applied Physics</i> , 2001 , 89, 1070-1074	2.5	19
127	High internal electric field in a graded-width InGa _x N/GaN quantum well: Accurate determination by time-resolved photoluminescence spectroscopy. <i>Applied Physics Letters</i> , 2001 , 78, 1252-1254	3.4	194
126	Piezoelectric field and its influence on the pressure behavior of the light emission from GaN/AlGa _x N strained quantum wells. <i>Applied Physics Letters</i> , 2001 , 79, 1483-1485	3.4	64
125	Direct signature of strained GaN quantum dots by Raman scattering. <i>Applied Physics Letters</i> , 2001 , 79, 686-688	3.4	20
124	Piezoelectric Field and its Influence on the Pressure Behavior of the Light Emission from InGa _x N/GaN and GaN/AlGa _x N Quantum Wells. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 693, 728		
123	The Role of Internal Electric Fields in III-N Quantum Structure. <i>Acta Physica Polonica A</i> , 2001 , 100, 261-270.6		1
122	Reduction of Carrier In-Plane Mobility in Group-III Nitride Based Quantum Wells: The Role of Internal Electric Fields 2001 , 183, 61		1
121	Molecular Beam Epitaxy of Group-III Nitrides on Silicon Substrates: Growth, Properties and Device Applications 2001 , 188, 501		1

120	Molecular Beam Epitaxy of Group-III Nitrides on Silicon Substrates: Growth, Properties and Device Applications 2001 , 188, 501			3
119	Recombination Dynamics in Nitride Quantum Boxes and Quantum Wells for Colors Ranging from the UV to the Red. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 639, 1011			1
118	Group-III Nitride Quantum Heterostructures Emitting in the whole Visible Range. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 639, 1211			1
117	High Magnetic Field Studies of AlGaIn/GaN Heterostructures Grown on Bulk GaN, SiC, and Sapphire Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 639, 731			2
116	Time-Resolved Spectroscopy of MBE-Grown Nitride Based Heterostructures. <i>Physica Status Solidi A</i> , 2000 , 178, 101-105			3
115	Scale Effects on Exciton Localization and Nonradiative Processes in GaN/AlGaIn Quantum Wells. <i>Physica Status Solidi A</i> , 2000 , 180, 127-132			32
114	Improved Radiative Efficiency using Self-Formed GaInN/GaN Quantum Dots Grown by Molecular Beam Epitaxy. <i>Physica Status Solidi A</i> , 2000 , 180, 363-368			9
113	Time-Resolved Spectroscopy of MBE-Grown InGaIn/GaN Self-Formed Quantum Dots. <i>Physica Status Solidi A</i> , 2000 , 180, 375-380			18
112	Modelling of thermally detected optical absorption and luminescence of (In,Ga)N/GaN heterostructures. <i>Solid State Communications</i> , 2000 , 115, 575-579	1.6		19
111	Enhanced luminescence efficiency due to exciton localization in self-assembled InGaIn/GaN quantum dots. <i>Solid State Communications</i> , 2000 , 113, 495-498	1.6		12
110	Resonant Raman scattering in (Al,Ga)N/GaN quantum well structures. <i>Thin Solid Films</i> , 2000 , 364, 156-160.	2		6
109	MBE grown InGaIn quantum dots and quantum wells: effects of in-plane localization. <i>Thin Solid Films</i> , 2000 , 380, 195-197	2.2		8
108	GaN and GaInN quantum dots: an efficient way to get luminescence in the visible spectrum range. <i>Applied Surface Science</i> , 2000 , 164, 241-245	6.7		27
107	Universal behavior of the pressure coefficient of the light absorption and emission in InGaIn structures. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 639, 981			1
106	Signature of GaInN quantum dots by nonresonant Raman scattering. <i>Applied Physics Letters</i> , 2000 , 77, 2174-2176	3.4		22
105	In situ imaging of threading dislocation terminations at the surface of GaN(0001) epitaxially grown on Si(111). <i>Physical Review B</i> , 2000 , 61, 7618-7621	3.3		30
104	Surface kinetics of GaN evaporation and growth by molecular-beam epitaxy. <i>Surface Science</i> , 2000 , 450, 191-203	1.8		30
103	Optical properties of GaN epilayers and GaN/AlGaIn quantum wells grown by molecular beam epitaxy on GaN(0001) single crystal substrate. <i>Journal of Applied Physics</i> , 2000 , 88, 183-187	2.5		39

102	Temperature Dependence of Optical Properties of h-GaN Films Studied by Reflectivity and Ellipsometry. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 20-25	1.4	37
101	InGaN/GaN quantum wells grown by molecular-beam epitaxy emitting from blue to red at 300 K. <i>Applied Physics Letters</i> , 2000 , 77, 1268-1270	3-4	70
100	High electron mobility in AlGaIn/GaN heterostructures grown on bulk GaN substrates. <i>Applied Physics Letters</i> , 2000 , 77, 2551-2553	3-4	103
99	Scale Effects on Exciton Localization and Nonradiative Processes in GaN/AlGaIn Quantum Wells 2000 , 180, 127		1
98	Quantum-Confined Stark Effect and Recombination Dynamics of Spatially Indirect Excitons in MBE-Grown GaN-AlGaIn Quantum Wells. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 1999 , 4, 375-380		3
97	Optical and Structural Properties of AlGaIn/GaN Quantum Wells Grown by Molecular Beam Epitaxy. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 1999 , 4, 962-967		
96	Molecular Beam Epitaxy of High Quality InGaIn Alloys Using Ammonia: Optical and Structural Properties. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 1999 , 4, 333-338		
95	Photoreflectance investigations of the bowing parameter in AlGaIn alloys lattice-matched to GaN. <i>Applied Physics Letters</i> , 1999 , 74, 3353-3355	3-4	43
94	GaN grown on Si(111) substrate: From two-dimensional growth to quantum well assessment. <i>Applied Physics Letters</i> , 1999 , 75, 82-84	3-4	53
93	Room-temperature blue-green emission from InGaIn/GaN quantum dots made by strain-induced islanding growth. <i>Applied Physics Letters</i> , 1999 , 75, 3751-3753	3-4	105
92	Strong Carrier Localization in GaInN/GaN Quantum Dots Grown by Molecular Beam Epitaxy. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, L1357-L1359	1.4	13
91	Molecular Beam Epitaxy of GaN under N-rich Conditions using NH ₃ . <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 618-621	1.4	45
90	Photoreflectance spectroscopy as a powerful tool for the investigation of GaN/AlGaIn quantum well structures. <i>Solid State Communications</i> , 1999 , 109, 567-571	1.6	9
89	Molecular beam epitaxy growth of nitride materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1999 , 59, 39-46	3.1	17
88	GaN/GaInN-based light emitting diodes grown by molecular beam epitaxy using NH ₃ . <i>Journal of Crystal Growth</i> , 1999 , 201-202, 323-326	1.6	1
87	Real-time control of the molecular beam epitaxy of nitrides. <i>Journal of Crystal Growth</i> , 1999 , 201-202, 382-387	1.6	9
86	Effect of the nucleation layer deposition temperature on the nature of defects in GSMBE GaN films. <i>Journal of Crystal Growth</i> , 1999 , 201-202, 423-428	1.6	9
85	GaN on Si(111): From Growth Optimization to Optical Properties of Quantum Well Structures. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 101-105	1.3	13

84	Photoreflectance Spectroscopy Investigation of GaN/AlGa _{1-x} N Quantum Well Structures. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 221-225	1.3	2
83	Dynamics of Excitons in GaN/AlGa _{1-x} N MQWs with Varying Depths, Thicknesses and Barrier Widths. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 361-364	1.3	20
82	Violet to Orange Room Temperature Luminescence from GaN Quantum Dots on Si(111) Substrates. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 451-455	1.3	19
81	Temperature Dependence of Photoluminescence Intensities of Undoped and Doped GaN. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 605-608	1.3	8
80	Impact Ionization of Excitons in an Electric Field in GaN. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 63-67	1.3	
79	Temperature Dependence of Hexagonal-GaN Optical Properties below the Bandgap. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 73-77	1.3	5
78	Multi Phonon Resonant Raman Scattering in GaN/Al _x Ga _{1-x} N Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 799-802	1.3	6
77	Effects of Built-in Polarization Field on the Optical Properties of AlGa _{1-x} N/GaN Quantum Wells. <i>Physica Status Solidi A</i> , 1999 , 176, 219-225		10
76	Growth Kinetics of GaN in Ammonia Atmosphere. <i>Physica Status Solidi A</i> , 1999 , 176, 333-336		3
75	GaN evaporation in molecular-beam epitaxy environment. <i>Applied Physics Letters</i> , 1999 , 74, 1854-1856	3.4	90
74	Time-resolved photoluminescence as a probe of internal electric fields in GaN-(GaAl) _{1-x} N quantum wells. <i>Physical Review B</i> , 1999 , 59, 15363-15367	3.3	120
73	Barrier-width dependence of group-III nitrides quantum-well transition energies. <i>Physical Review B</i> , 1999 , 60, 1496-1499	3.3	168
72	Temperature quenching of photoluminescence intensities in undoped and doped GaN. <i>Journal of Applied Physics</i> , 1999 , 86, 3721-3728	2.5	418
71	Built-in electric-field effects in wurtzite AlGa _{1-x} N/GaN quantum wells. <i>Journal of Applied Physics</i> , 1999 , 86, 3714-3720	2.5	223
70	From visible to white light emission by GaN quantum dots on Si(111) substrate. <i>Applied Physics Letters</i> , 1999 , 75, 962-964	3.4	254
69	Observation of long-lived oblique excitons in GaN-AlGa _{1-x} N multiple quantum wells. <i>Physical Review B</i> , 1999 , 59, 10246-10250	3.3	34
68	GaN/AlGa _{1-x} N multiple-quantum-well light-emitting diodes grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 1999 , 74, 3616-3618	3.4	39
67	Self-limitation of AlGa _{1-x} N/GaN quantum well energy by built-in polarization field. <i>Applied Physics Letters</i> , 1999 , 74, 2361-2363	3.4	78

66	Thermal Stability of GaN Investigated by Raman Scattering. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 1999 , 4, 653-658		1
65	Coupled longitudinal optic phonon-plasmon modes in p-type GaN. <i>Solid State Communications</i> , 1998 , 106, 491-494	1.6	23
64	Quantum confined Stark effect due to built-in internal polarization fields in (Al,Ga)N/GaN quantum wells. <i>Physical Review B</i> , 1998 , 58, R13371-R13374	3.3	362
63	Molecular-beam epitaxy of gallium nitride on (0001) sapphire substrates using ammonia. <i>Journal of Applied Physics</i> , 1998 , 83, 1379-1383	2.5	83
62	Efficiency of NH ₃ as nitrogen source for GaN molecular beam epitaxy. <i>Applied Physics Letters</i> , 1998 , 72, 350-352	3.4	111
61	Band edge versus deep luminescence of In _x Ga _{1-x} N layers grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 1998 , 72, 3190-3192	3.4	14
60	Interface Effects on the Photoluminescence of GaAs/GaN Quantum Wells. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 15-22	1.4	11
59	Thermal stability of GaN investigated by Raman scattering. <i>Applied Physics Letters</i> , 1998 , 73, 960-962	3.4	74
58	Ultraviolet GaN light-emitting diodes grown by molecular beam epitaxy using NH ₃ . <i>Applied Physics Letters</i> , 1998 , 72, 82-84	3.4	49
57	Real time control of In _x Ga _{1-x} N molecular beam epitaxy growth. <i>Applied Physics Letters</i> , 1998 , 72, 1078-1080	3.4	74
56	GaN/Al _x Ga _{1-x} N quantum wells grown by molecular beam epitaxy with thickness control at the monolayer scale. <i>Applied Physics Letters</i> , 1998 , 73, 1260-1262	3.4	33
55	Violet InGaN/GaN Light Emitting Diodes Grown by Molecular Beam Epitaxy Using NH ₃ . <i>Japanese Journal of Applied Physics</i> , 1998 , 37, L907-L909	1.4	2
54	Optical and Structural Properties of AlGa _x N/GaN Quantum Wells Grown by Molecular Beam Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 537, 1		1
53	Phonons and Holes in Magnesium Doped GaN. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 512, 333		
52	Effect of V/III Ratio on the Properties of GaN Layers Grown by Molecular Beam Epitaxy Using NH ₃ . <i>Materials Research Society Symposia Proceedings</i> , 1998 , 512, 69		
51	Molecular Beam Epitaxy of High Quality InGaN Alloys Using Ammonia: Optical and Structural Properties. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 537, 1		
50	Quantum-Confined Stark Effect and Recombination Dynamics of Spatially Indirect Excitons in MBE-Grown GaN-AlGa _x N Quantum Wells. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 537, 1		1
49	Thermal Stability of GaN Investigated by Raman Scattering. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 537, 1		

48	Surface segregation in (Ga,In)As/GaAs quantum boxes. <i>Physical Review B</i> , 1997 , 55, R10189-R10192	3.3	56
47	Epitaxial relationships between GaN and Al ₂ O ₃ (0001) substrates. <i>Applied Physics Letters</i> , 1997 , 70, 643-645	3.4	54
46	Photoluminescence energy and interface chemistry of GaInP/GaAs quantum wells. <i>Applied Physics Letters</i> , 1997 , 71, 3552-3554	3.4	12
45	GaN and Al _x Ga _{1-x} N molecular beam epitaxy monitored by reflection high-energy electron diffraction. <i>Applied Physics Letters</i> , 1997 , 71, 1816-1818	3.4	100
44	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> , 1997 , 55, 2406-2412	3.3	33
43	Si and Mg Doped GaN Layers Grown by Gas Source Molecular Beam Epitaxy Using Ammonia. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 482, 295		1
42	GaN based LEDs grown by molecular beam epitaxy. <i>Electronics Letters</i> , 1997 , 33, 2156	1.1	12
41	Microroughness and exciton localization in (Al,Ga)As/GaAs quantum wells. <i>Physical Review B</i> , 1997 , 55, 5253-5258	3.3	34
40	Gas source molecular beam epitaxy of wurtzite GaN on sapphire substrates using GaN buffer layers. <i>Applied Physics Letters</i> , 1997 , 71, 240-242	3.4	76
39	Optical studies of highly strained InGaAs/GaAs quantum wells grown on vicinal surfaces. <i>Journal of Applied Physics</i> , 1997 , 81, 3281-3289	2.5	18
38	Indium surface segregation during chemical beam epitaxy of and heterostructures. <i>Journal of Crystal Growth</i> , 1997 , 175-176, 1242-1246	1.6	15
37	Effects of segregation on the optical properties of (In,Ga)As/GaAs quantum wells grown by MBE under various conditions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997 , 44, 151-154	3.1	
36	Comparative optical characterization of GaN grown by metal-organic vapor phase epitaxy, gas source molecular beam epitaxy and halide vapor phase epitaxy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997 , 43, 237-241	3.1	6
35	Luminescence and reflectivity studies of undoped, n- and p-doped GaN on (0001) sapphire. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997 , 50, 97-104	3.1	97
34	GaN epitaxial growth on sapphire (0 0 0 1): the role of the substrate nitridation. <i>Journal of Crystal Growth</i> , 1997 , 178, 220-228	1.6	40
33	Nitridation of sapphire. Effect on the optical properties of GaN epitaxial overlayers. <i>Applied Physics Letters</i> , 1996 , 69, 2071-2073	3.4	170
32	Effect of the Nitridation of the Sapphire (0001) Substrate on the GaN Growth. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 449, 67		3
31	Characterization of Near Edge Optical Transitions in Undoped and Doped GaN/Sapphire Grown by MOVPE, HVPE, and GSMBE. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 449, 695		11

30	Rutherford backscattering spectrometry, particle induced X-ray emission and atomic force microscopy of InAs thin films grown on GaAs: a complementary study. <i>Thin Solid Films</i> , 1996 , 278, 155-165 ^{2,2}		
29	Kinetics of surfactant-mediated epitaxy of III-V semiconductors. <i>Physical Review B</i> , 1996 , 53, R13231-R13234	3.3	14
28	Real-time investigation of In surface segregation in chemical beam epitaxy of In _{0.5} Ga _{0.5} P on GaAs (001). <i>Applied Physics Letters</i> , 1996 , 68, 3579-3581	3.4	26
27	Monte Carlo simulation of In surface segregation during the growth of In _x Ga _{1-x} As on GaAs(001). <i>Physical Review B</i> , 1996 , 53, 998-1001	3.3	52
26	Luminescence and Reflectivity of GaN/sapphire grown by MOVPE, GSMBE and HVPE. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 1996 , 1, 1		10
25	How to induce the epitaxial growth of gallium nitride on Si(001). <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1995 , 29, 74-77	3.1	9
24	Surfactant-mediated molecular-beam epitaxy of III-V strained-layer heterostructures. <i>Journal of Crystal Growth</i> , 1995 , 150, 460-466	1.6	35
23	Optical investigations in (In,Ga)As/GaAs quantum wells grown by metalorganic molecular-beam epitaxy. <i>Physical Review B</i> , 1995 , 51, 13274-13280	3.3	28
22	Critical Thickness for Islanded Growth of Highly Strained In _x Ga _{1-x} As on GaAs(001). <i>Japanese Journal of Applied Physics</i> , 1994 , 33, L1427	1.4	8
21	Lateral localization effects in strained InGaAs/GaAs semiconductor quantum wells grown on vicinal surfaces 1994 , 2139, 222		2
20	Improved GaInAs/GaAs heterostructures by high growth rate molecular beam epitaxy. <i>Applied Physics Letters</i> , 1994 , 64, 2664-2666	3.4	19
19	Monolayer thickness control of In _x Ga _{1-x} As/GaAs quantum wells grown by metalorganic molecular beam epitaxy. <i>Applied Physics Letters</i> , 1994 , 64, 1523-1525	3.4	6
18	Terrace length commensurability and surface reconstruction in highly strained InGaAs/GaAs quantum wells grown on vicinal substrates. <i>Superlattices and Microstructures</i> , 1994 , 15, 155	2.8	5
17	Elastic misfit stress relaxation in highly strained InGaAs/GaAs structures. <i>Applied Physics Letters</i> , 1994 , 65, 1162-1164	3.4	29
16	Extension of the layer-by-layer growth regime of In _x Ga _{1-x} As on GaAs (001). <i>Semiconductor Science and Technology</i> , 1993 , 8, 2031-2034	1.8	20
15	Photoluminescence under pressure of ultrathin AlAs layers grown on GaAs vicinal surfaces: A search for lateral confinement effects. <i>Physical Review B</i> , 1993 , 47, 1292-1298	3.3	13
14	Improvement of the growth of In _x Ga _{1-x} As on GaAs (001) using Te as surfactant. <i>Applied Physics Letters</i> , 1993 , 63, 66-68	3.4	26
13	Grandjean and Massies reply. <i>Physical Review Letters</i> , 1993 , 70, 1031	7.4	15

12	Oscillation of the lattice relaxation in layer-by-layer epitaxial growth of highly strained materials. <i>Physical Review Letters</i> , 1993 , 71, 1411-1414	7.4	116
11	Surfactant effect on the surface diffusion length in epitaxial growth. <i>Physical Review B</i> , 1993 , 48, 8502-8505	3.5	89
10	Localization in highly strained In _{0.35} Ga _{0.65} As/GaAs ultrathin quantum wells. <i>Superlattices and Microstructures</i> , 1993 , 14, 39	2.8	7
9	Spin orientation by optical pumping of strained In _{0.35} Ga _{0.65} As/GaAs quantum wells grown on vicinal substrates. <i>Superlattices and Microstructures</i> , 1993 , 14, 117	2.8	4
8	Epitaxial growth of highly strained In _x Ga _{1-x} As on GaAs(001): the role of surface diffusion length. <i>Journal of Crystal Growth</i> , 1993 , 134, 51-62	1.6	133
7	Growth of ultra-thin AlAs layers on GaAs (001) vicinal surfaces: a search for lateral confinement. <i>Journal of Crystal Growth</i> , 1993 , 127, 831-835	1.6	
6	Indium segregation and misorientation effects on the optical properties of MBE grown In _{0.35} Ga _{0.65} As/GaAs quantum wells. <i>European Physical Journal Special Topics</i> , 1993 , 03, C5-295-C5-298		5
5	Surfactant mediated epitaxial growth of In _x Ga _{1-x} As on GaAs (001). <i>Applied Physics Letters</i> , 1992 , 61, 99-101	3.4	71
4	Delayed relaxation by surfactant action in highly strained III-V semiconductor epitaxial layers. <i>Physical Review Letters</i> , 1992 , 69, 796-799	7.4	129
3	Confined electron states in ultrathin AlAs single quantum wells under pressure. <i>Physical Review B</i> , 1992 , 45, 11846-11853	3.3	16
2	III-Nitride High-Brightness Light-Emitting Diodes	75-98	
1	Progresses in III-Nitride Distributed Bragg Reflectors and Microcavities Using AlInN/GaN Materials	261-286	