Izabella Grzegory

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#	Paper	IF	Citations
418	Elastic constants of gallium nitride. <i>Journal of Applied Physics</i> , 1996 , 79, 3343-3344	2.5	558
417	Raman scattering and x-ray-absorption spectroscopy in gallium nitride under high pressure. <i>Physical Review B</i> , 1992 , 45, 83-89	3.3	498
416	Observation of Native Ga Vacancies in GaN by Positron Annihilation. <i>Physical Review Letters</i> , 1997 , 79, 3030-3033	7.4	411
415	Lattice parameters of gallium nitride. <i>Applied Physics Letters</i> , 1996 , 69, 73-75	3.4	325
414	Towards the identification of the dominant donor in GaN. <i>Physical Review Letters</i> , 1995 , 75, 296-299	7.4	266
413	Photoluminescence and reflectance spectroscopy of excitonic transitions in high-quality homoepitaxial GaN films. <i>Physical Review B</i> , 1999 , 60, 1471-1473	3.3	204
412	Mechanism of yellow luminescence in GaN. <i>Applied Physics Letters</i> , 1995 , 67, 2188-2190	3.4	193
411	Investigation of longitudinal-optical phonon-plasmon coupled modes in highly conducting bulk GaN. <i>Applied Physics Letters</i> , 1995 , 67, 2524-2526	3.4	192
410	Thermal expansion of gallium nitride. <i>Journal of Applied Physics</i> , 1994 , 76, 4909-4911	2.5	179
409	Elastic and plastic properties of GaN determined by nano-indentation of bulk crystal. <i>Applied Physics Letters</i> , 1999 , 75, 2070-2072	3.4	161
408	Phonon dispersion curves in wurtzite-structure GaN determined by inelastic x-ray scattering. <i>Physical Review Letters</i> , 2001 , 86, 906-9	7.4	158
407	Thermodynamical properties of IIIIV nitrides and crystal growth of GaN at high N2 pressure. <i>Journal of Crystal Growth</i> , 1997 , 178, 174-188	1.6	156
406	Temperature dependence of the energy gap in GaN bulk single crystals and epitaxial layer. <i>Journal of Applied Physics</i> , 1994 , 76, 2429-2434	2.5	155
405	Chemical polishing of bulk and epitaxial GaN. Journal of Crystal Growth, 1997, 182, 17-22	1.6	153
404	Hardness and fracture toughness of bulk single crystal gallium nitride. <i>Applied Physics Letters</i> , 1996 , 69, 4044-4046	3.4	138
403	Pressure studies of gallium nitride: Crystal growth and fundamental electronic properties. <i>Physical Review B</i> , 1992 , 45, 13307-13313	3.3	138
402	Exciton region reflectance of homoepitaxial GaN layers. <i>Applied Physics Letters</i> , 1996 , 69, 788-790	3.4	129

401	Thermal conductivity of GaN crystals in 4.2B00 K range. Solid State Communications, 2003, 128, 69-73	1.6	127
400	Determination of the effective mass of GaN from infrared reflectivity and Hall effect. <i>Applied Physics Letters</i> , 1996 , 68, 1114-1116	3.4	124
399	Luminescence and reflectivity in the exciton region of homoepitaxial GaN layers grown on GaN substrates. <i>Solid State Communications</i> , 1996 , 97, 919-922	1.6	121
398	IIIIV NitridesThermodynamics and crystal growth at high N2 pressure. <i>Journal of Physics and Chemistry of Solids</i> , 1995 , 56, 639-647	3.9	118
397	Thermal stability of isolated and complexed Ga vacancies in GaN bulk crystals. <i>Physical Review B</i> , 2001 , 64,	3.3	117
396	Recent advances in defect-selective etching of GaN. <i>Journal of Crystal Growth</i> , 2000 , 210, 151-156	1.6	106
395	High electron mobility in AlGaN/GaN heterostructures grown on bulk GaN substrates. <i>Applied Physics Letters</i> , 2000 , 77, 2551-2553	3.4	103
394	Orthodox etching of HVPE-grown GaN. <i>Journal of Crystal Growth</i> , 2007 , 305, 384-392	1.6	102
393	Homoepitaxy of GaN on polished bulk single crystals by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 1996 , 68, 917-919	3.4	98
392	Thermal properties of indium nitride. <i>Journal of Physics and Chemistry of Solids</i> , 1998 , 59, 289-295	3.9	92
391	Influence of dopants and substrate material on the formation of Ga vacancies in epitaxial GaN layers. <i>Physical Review B</i> , 2001 , 63,	3.3	92
390	Negative differential resistance in dislocation-free GaNAlGaN double-barrier diodes grown on bulk GaN. <i>Applied Physics Letters</i> , 2006 , 88, 172106	3.4	90
389	Defect-selective etching of GaN in a modified molten bases system. <i>Journal of Crystal Growth</i> , 2002 , 246, 21-24	1.6	85
388	Polariton effects in reflectance and emission spectra of homoepitaxial GaN. <i>Physical Review B</i> , 1997 , 56, 15151-15156	3.3	83
387	Effect of growth polarity on vacancy defect and impurity incorporation in dislocation-free GaN. <i>Applied Physics Letters</i> , 2005 , 86, 031915	3.4	80
386	GaNAlGaN heterostructure field-effect transistors over bulk GaN substrates. <i>Applied Physics Letters</i> , 2000 , 76, 3807-3809	3.4	79
385	Mg-doped GaN: Similar defects in bulk crystals and layers grown on Al2O3 by metal B rganic chemical-vapor deposition. <i>Applied Physics Letters</i> , 1999 , 75, 4159-4161	3.4	77
384	Morphological and structural characteristics of homoepitaxial GaN grown by metalorganic chemical vapour deposition (MOCVD). <i>Journal of Crystal Growth</i> , 1999 , 204, 419-428	1.6	77

383	Structural characterization of bulk GaN crystals grown under high hydrostatic pressure. <i>Journal of Electronic Materials</i> , 1996 , 25, 1545-1550	1.9	77
382	Optical and magnetic properties of Mn in bulk GaN. <i>Physical Review B</i> , 2004 , 69,	3.3	75
381	Carrier recombination at single dislocations in GaN measured by cathodoluminescence in a transmission electron microscope. <i>Journal of Applied Physics</i> , 2002 , 92, 2000-2005	2.5	75
380	Carrier localization of as-grown n-type gallium nitride under large hydrostatic pressure. <i>Physical Review B</i> , 1996 , 53, 1322-1326	3.3	71
379	High pressure growth of bulk GaN from solutions in gallium. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 6875-6892	1.8	70
378	The influence of Mg doping on the formation of Ga vacancies and negative ions in GaN bulk crystals. <i>Applied Physics Letters</i> , 1999 , 75, 2441-2443	3.4	69
377	Heat capacity of ∰aN: Isotope effects. <i>Physical Review B</i> , 2005 , 72,	3.3	65
376	Degradation mechanisms in InGaN laser diodes grown on bulk GaN crystals. <i>Applied Physics Letters</i> , 2006 , 88, 201111	3.4	64
375	Nonradiative recombination at threading dislocations in n-type GaN: Studied by cathodoluminescence and defect selective etching. <i>Applied Physics Letters</i> , 2008 , 92, 231909	3.4	63
374	Deposition of thick GaN layers by HVPE on the pressure grown GaN substrates. <i>Journal of Crystal Growth</i> , 2005 , 281, 38-46	1.6	63
373	Structure and composition of GaN(0001) A and B surfaces. <i>Journal of Applied Physics</i> , 1999 , 85, 7697-77	′0≰ .5	63
372	Blue-violet InGaN laser diodes grown on bulk GaN substrates by plasma-assisted molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2005 , 86, 011114	3.4	62
371	Lattice constants, thermal expansion and compressibility of gallium nitride. <i>Journal Physics D: Applied Physics</i> , 1995 , 28, A149-A153	3	58
370	High pressure phase transition in aluminium nitride. <i>Solid State Communications</i> , 1991 , 79, 1033-1034	1.6	58
369	Homo-epitaxial GaN growth on exact and misoriented single crystals: suppression of hillock formation. <i>Journal of Crystal Growth</i> , 2000 , 210, 435-443	1.6	54
368	Mechanisms of crystallization of bulk GaN from the solution under high N2 pressure. <i>Journal of Crystal Growth</i> , 2002 , 246, 177-186	1.6	49
367	Spontaneous Ordering in Bulk GaN:Mg Samples. <i>Physical Review Letters</i> , 1999 , 83, 2370-2373	7.4	49
366	Neutral Mn acceptor in bulk GaN in high magnetic fields. <i>Physical Review B</i> , 2004 , 70,	3.3	48

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365	Chemically ordered AlxGa1NN alloys: Spontaneous formation of natural quantum wells. <i>Physical Review B</i> , 2005 , 71,	3.3	47	
364	The microstructure of gallium nitride monocrystals grown at high pressure. <i>Journal of Crystal Growth</i> , 1996 , 169, 235-242	1.6	47	
363	Raman and cathodoluminescence study of dislocations in GaN. Journal of Applied Physics, 2002, 92, 66	66 <u>2</u> 6670	0 46	
362	Acoustic phonon scattering of two-dimensional electrons in GaN/AlGaN heterostructures. <i>Applied Physics Letters</i> , 2002 , 80, 1228-1230	3.4	46	
361	60mW continuous-wave operation of InGaN laser diodes made by plasma-assisted molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2006 , 88, 221108	3.4	45	
360	High-Resolution Photoluminescence and Reflectance Spectra of Homoepitaxial GaN Layers. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 5-9	1.3	45	
359	High Quality Homoepitaxial GaN Grown by Molecular Beam Epitaxy with NH 3 on Surface Cracking. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, L1634-L1636	1.4	44	
358	Preparation of Free-Standing GaN Substrates from Thick GaN Layers Crystallized by Hydride Vapor Phase Epitaxy on Ammonothermally Grown GaN Seeds. <i>Applied Physics Express</i> , 2013 , 6, 075504	2.4	43	
357	Nitride-based laser diodes by plasma-assisted MBEBrom violet to green emission. <i>Journal of Crystal Growth</i> , 2009 , 311, 1632-1639	1.6	43	
356	Temperature dependence of electrical properties of gallium-nitride bulk single crystals doped with Mg and their evolution with annealing. <i>Journal of Applied Physics</i> , 2001 , 89, 7960-7965	2.5	43	
355	Decay of stimulated and spontaneous emission in highly excited homoepitaxial GaN. <i>Applied Physics Letters</i> , 2001 , 78, 3776-3778	3.4	41	
354	GaN substrates for molecular beam epitaxy growth of homoepitaxial structures. <i>Thin Solid Films</i> , 2000 , 367, 281-289	2.2	41	
353	Symmetry of excitons in GaN. <i>Physical Review B</i> , 1999 , 60, 4438-4441	3.3	41	
352	Crystal growth of III-N compounds under high nitrogen pressure. <i>Physica B: Condensed Matter</i> , 1993 , 185, 99-102	2.8	40	
351	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> , 2000 , 88, 183-187	2.5	39	
350	X-ray examination of GaN single crystals grown at high hydrostatic pressure. <i>Journal of Crystal Growth</i> , 1993 , 126, 601-604	1.6	39	
349	X-ray absorption, glancing-angle reflectivity, and theoretical study of the N K- and Ga M2,3-edge spectra in GaN. <i>Physical Review B</i> , 1997 , 55, 2612-2622	3.3	38	
348	HVPE-GaN grown on MOCVD-GaN/sapphire template and ammonothermal GaN seeds: Comparison of structural, optical, and electrical properties. <i>Journal of Crystal Growth</i> , 2014 , 394, 55-60	1.6	37	

347	Fully-screened polarization-induced electric fields in blueliolet InGaNLaN light-emitting devices grown on bulk GaN. <i>Applied Physics Letters</i> , 2005 , 87, 041109	3.4	37
346	Homoepitaxial growth of GaN by metalorganic vapor phase epitaxy: A benchmark for GaN technology. <i>Applied Physics Letters</i> , 1999 , 75, 1098-1100	3.4	37
345	Dry etching of GaN substrates for high-quality homoepitaxy. <i>Applied Physics Letters</i> , 1999 , 74, 1123-1	1253.4	37
344	Surface reaction of nitrogen with liquid group III metals. <i>Journal of Chemical Physics</i> , 2001 , 114, 6353-	63639	36
343	Correlation between luminescence and compositional striations in InGaN layers grown on miscut GaN substrates. <i>Applied Physics Letters</i> , 2007 , 91, 211904	3.4	35
342	Growth optimisation of the GaN layers and GaN/AlGaN heterojunctions on bulk GaN substrates using plasma-assisted molecular beam epitaxy. <i>Physica Status Solidi A</i> , 2004 , 201, 320-323		35
341	Ordering in bulk GaN: Mg samples: defects caused by Mg doping. <i>Physica B: Condensed Matter</i> , 1999 , 273-274, 124-129	2.8	35
340	The influence of lattice parameter variation on microstructure of GaN single crystals. <i>Journal of Alloys and Compounds</i> , 2005 , 401, 261-264	5.7	34
339	Crystal growth of aluminum nitride under high pressure of nitrogen. <i>Materials Science in Semiconductor Processing</i> , 2001 , 4, 543-548	4.3	34
338	Structural Defects in Heteroepitaxial and Homoepitaxial GaN. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 395, 351		34
337	GaN/AlGaN quantum wells for UV emission: heteroepitaxy versus homoepitaxy. <i>Semiconductor Science and Technology</i> , 2001 , 16, 358-361	1.8	33
336	GaN homoepitaxial layers grown by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 1999 , 75, 1276-1278	3.4	33
335	Interaction of N2 molecule with liquid Ga surface Equantum mechanical calculations (DFT). <i>Journal of Crystal Growth</i> , 1998 , 189-190, 159-162	1.6	32
334	Growth of InGaN and InGaN/InGaN quantum wells by plasma-assisted molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2008 , 310, 3983-3986	1.6	32
333	Optically detected magnetic resonance of the red and near-infrared luminescence in Mg-doped GaN. <i>Physical Review B</i> , 2001 , 63,	3.3	32
332	GaN crystallization by the high-pressure solution growth method on HVPE bulk seed. <i>Journal of</i>		31
	Crystal Growth, 2008 , 310, 3924-3933	1.6	3 1
331		3.3	31

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329	High power blue liolet In GaN laser diodes grown on bulk GaN substrates by plasma-assisted molecular beam epitaxy. <i>Semiconductor Science and Technology</i> , 2005 , 20, 809-813	1.8	30	
328	Magnetic anisotropy of bulk GaN:Mn single crystals codoped with Mg acceptors. <i>Physical Review B</i> , 2005 , 71,	3.3	30	
327	Homoepitaxial growth of GaN using molecular beam epitaxy. Journal of Applied Physics, 1996, 80, 2195	-2:1.98	30	
326	The challenge of decomposition and melting of gallium nitride under high pressure and high temperature. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 85, 138-143	3.9	29	
325	InGaN light emitting diodes for 415 nmB20 nm spectral range by plasma assisted MBE. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, S917-S920		29	
324	Homoepitaxial HVPE-GaN growth on non-polar and semi-polar seeds. <i>Journal of Crystal Growth</i> , 2014 , 403, 48-54	1.6	28	
323	Evidence of free carrier concentration gradient along the c-axis for undoped GaN single crystals. Journal of Crystal Growth, 2001 , 230, 442-447	1.6	28	
322	High Resistivity GaN Single Crystalline Substrates. <i>Acta Physica Polonica A</i> , 1997 , 92, 958-962	0.6	28	
321	Effect of high-temperature annealing on the residual strain and bending of freestanding GaN films grown by hydride vapor phase epitaxy. <i>Applied Physics Letters</i> , 2006 , 88, 141909	3.4	27	
320	A pressure-tuned blue-violet InGaN/GaN laser diode grown on bulk GaN crystal. <i>Applied Physics Letters</i> , 2004 , 84, 1236-1238	3.4	27	
319	Directional crystallization of GaN on high-pressure solution grown substrates by growth from solution and HVPE. <i>Journal of Crystal Growth</i> , 2002 , 246, 194-206	1.6	27	
318	Thermal conductivity of GaN crystals grown by high pressure method. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 240, 447-450	1.3	27	
317	High-nitrogen-pressure growth of GaN single crystals: doping and physical properties. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 8881-8890	1.8	27	
316	Examination of defects and the seed's critical thickness in HVPE-GaN growth on ammonothermal GaN seed. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 1172-1179	1.3	26	
315	Properties of metal-insulator transition and electron spin relaxation in GaN:Si. <i>Physical Review B</i> , 2011 , 83,	3.3	26	
314	Intrinsic dynamics of weakly and strongly confined excitons in nonpolar nitride-based heterostructures. <i>Physical Review B</i> , 2011 , 83,	3.3	26	
313	Substrate misorientation induced strong increase in the hole concentration in Mg doped GaN grown by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , 2008 , 93, 172117	3.4	26	
312	Crystallization of low dislocation density GaN by high-pressure solution and HVPE methods. <i>Journal of Crystal Growth</i> , 2007 , 300, 17-25	1.6	26	

311	Characterization of GaN single crystals by defect-selective etching. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 821-826		26
310	Annealing of GaN under high pressure of nitrogen. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 1109	97 <u>-1</u> 18 11	1026
309	Free and bound excitons in GaNAlGaN homoepitaxial quantum wells grown on bulk GaN substrate along the nonpolar (112🗅) direction. <i>Applied Physics Letters</i> , 2005 , 86, 162112	3.4	25
308	Application of a composite plasmonic substrate for the suppression of an electromagnetic mode leakage in InGaN laser diodes. <i>Applied Physics Letters</i> , 2009 , 95, 261108	3.4	24
307	Growth of thin AlinNtainN quantum wells for applications to high-speed intersubband devices at telecommunication wavelengths. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 1505		24
306	Vacancies as compensating centers in bulk GaN: doping effects. <i>Journal of Crystal Growth</i> , 2002 , 246, 281-286	1.6	24
305	Transverse effective charge and its pressure dependence in GaN single crystals. <i>Physical Review B</i> , 1999 , 60, 1480-1483	3.3	24
304	Selective excitation and thermal quenching of the yellow luminescence of GaN. <i>Applied Physics Letters</i> , 1999 , 75, 3273-3275	3.4	24
303	Growth mechanism of InGaN by plasma assisted molecular beam epitaxy. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2011 , 29, 03C136	1.3	23
302	Ga vacancies in electron irradiated GaN: introduction, stability and temperature dependence of positron trapping. <i>Physica B: Condensed Matter</i> , 2001 , 308-310, 77-80	2.8	23
301	High-pressure crystallization of GaN for electronic applications. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 11055-11067	1.8	23
300	Recent Results in the Crystal Growth of GaN at High N2 Pressure. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 1996 , 1, 1		23
299	Revealing extended defects in HVPE-grown GaN. Journal of Crystal Growth, 2010, 312, 2611-2615	1.6	22
298	GaN Crystals: Growth and Doping Under Pressure. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 482, 115		22
297	Deposition of bulk GaN from solution in gallium under high N2 pressure on silicon carbide and sapphire substrates. <i>Journal of Crystal Growth</i> , 2004 , 270, 409-419	1.6	22
296	Defects in GaN single crystals and homoepitaxial structures. <i>Journal of Crystal Growth</i> , 2005 , 281, 135-	142 6	22
295	Photoemission studies on GaN(0 0 0 1) surfaces. Surface Science, 2001, 482-485, 740-745	1.8	22
294	Structural and Optical Properties of Homoepitaxial GaN Layers. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 449, 393		22

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293	Photoluminescence study on GaN homoepitaxial layers grown by molecular beam epitaxy. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 1996 , 1, 1		22
292	Analysis of self-lift-off process during HVPE growth of GaN on MOCVD-GaN/sapphire substrates with photolitographically patterned Ti mask. <i>Journal of Crystal Growth</i> , 2013 , 380, 99-105	1.6	21
291	Effect of pressure on exciton energies of homoepitaxial GaN. <i>Solid State Communications</i> , 1998 , 108, 433-438	1.6	21
290	Energy dependence of electron inelastic mean free paths in bulk GaN crystals. <i>Surface Science</i> , 2004 , 566-568, 1234-1239	1.8	21
289	The Application of High Pressure in Physics and Technology of III-V Nitrides. <i>Acta Physica Polonica A</i> , 2001 , 100, 57-109	0.6	21
288	GaN doped with beryllium an effective light converter for white light emitting diodes. <i>Applied Physics Letters</i> , 2013 , 103, 011107	3.4	20
287	Growth mechanisms in semipolar and nonpolar m-plane AlGaN/GaN structures grown by PAMBE under N-rich conditions. <i>Journal of Crystal Growth</i> , 2013 , 377, 184-191	1.6	20
286	Polarity dependent properties of GaN layers grown by hydride vapor phase epitaxy on GaN bulk crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 240, 289-292	1.3	20
285	Fine structure of effective mass acceptors in gallium nitride. <i>Physical Review Letters</i> , 2003 , 91, 226404	7.4	20
284	Efficient radiative recombination and potential profile fluctuations in low-dislocation InGaNtaN multiple quantum wells on bulk GaN substrates. <i>Journal of Applied Physics</i> , 2005 , 97, 103507	2.5	20
283	Observation of Ga vacancies and negative ions in undoped and Mg-doped GaN bulk crystals. <i>Physica B: Condensed Matter</i> , 1999 , 273-274, 33-38	2.8	20
282	GaN Crystals Grown in the Increased Volume High-Pressure Reactors. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 449, 35		20
281	Preparation of free-standing GaN substrates from GaN layers crystallized by hydride vapor phase epitaxy on ammonothermal GaN seeds. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FA04	1.4	19
280	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
279	Anomalous temperature characteristics of single wide quantum well InGaN laser diode. <i>Applied Physics Letters</i> , 2006 , 88, 071121	3.4	19
278	CFD and reaction computational analysis of the growth of GaN by HVPE method. <i>Journal of Crystal Growth</i> , 2006 , 296, 31-42	1.6	19
277	Electronic structure of GaN(0 0 0 1)-(1 🗈) surface. Surface Science, 2004 , 548, 220-230	1.8	19
276	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

275	Growth of AlN, GaN and InN from the solution. <i>International Journal of Materials and Product Technology</i> , 2005 , 22, 226	1	19
274	Spatial distribution of electron concentration and strain in bulk GaN single crystals - relation to growth mechanism. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 449, 519		19
273	Examination of growth rate during hydride vapor phase epitaxy of GaN on ammonothermal GaN seeds. <i>Journal of Crystal Growth</i> , 2014 , 407, 52-57	1.6	18
272	Role of dislocation-free GaN substrates in the growth of indium containing optoelectronic structures by plasma-assisted MBE. <i>Journal of Crystal Growth</i> , 2007 , 305, 346-354	1.6	18
271	Stimulated emission due to spatially separated electron-hole plasma and exciton system in homoepitaxial GaN. <i>Physical Review B</i> , 2004 , 69,	3.3	18
270	Gallium nitride growth on sapphire/GaN templates at high pressure and high temperatures. <i>Journal of Crystal Growth</i> , 2005 , 274, 55-64	1.6	18
269	Influence of Dopants on Defect Formation in GaN. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 228, 345-352	1.3	18
268	Multi feed seed (MFS) high pressure crystallization of 1½ in GaN. <i>Journal of Crystal Growth</i> , 2012 , 350, 5-10	1.6	17
267	Step-flow anisotropy of the m-plane GaN (1100) grown under nitrogen-rich conditions by plasma-assisted molecular beam epitaxy. <i>Physical Review B</i> , 2011 , 83,	3.3	17
266	Impurity-Related Luminescence of Homoepitaxial GaN Studied with High Magnetic Fields. <i>Physica Status Solidi (B): Basic Research</i> , 1998 , 210, 373-383	1.3	17
265	Effects of defect scattering on the photoluminescence of exciton-polaritons in n-GaN. <i>Solid State Communications</i> , 1998 , 105, 497-501	1.6	17
264	Carrier recombination and diffusion in GaN revealed by transient luminescence under one-photon and two-photon excitations. <i>Applied Physics Letters</i> , 2006 , 89, 172119	3.4	17
263	Optical gain in homoepitaxial GaN. <i>Applied Physics Letters</i> , 2004 , 85, 952-954	3.4	17
262	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
261	High-resolution PL spectra of donor- and acceptor-bound excitons in homoepitaxial GaN-layers. <i>Physica B: Condensed Matter</i> , 1999 , 273-274, 66-69	2.8	17
260	Homoepitaxial growth of HVPE-GaN doped with Si. <i>Journal of Crystal Growth</i> , 2016 , 456, 91-96	1.6	17
259	Influence of edge-grown HVPE GaN on the structural quality of c-plane oriented HVPE-GaN grown on ammonothermal GaN substrates. <i>Journal of Crystal Growth</i> , 2016 , 456, 80-85	1.6	16
258	High pressurefligh temperature seeded growth of GaN on 1 in sapphire/GaN templates: Analysis of convective transport. <i>Journal of Crystal Growth</i> , 2007 , 307, 259-267	1.6	16

257	Strain relaxation in AlN epitaxial layers grown on GaN single crystals. <i>Journal of Crystal Growth</i> , 1999 , 205, 31-35	1.6	16	
256	Metal-Insulator Transition in GaN Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1996 , 198, 223-233	1.3	16	
255	Synthesis and Crystal Growth of AIIIBVSemiconducting Compounds Under High Pressure of Nitrogen. <i>Physica Scripta</i> , 1991 , T39, 242-249	2.6	16	
254	Blue Laser on High N2Pressure-Grown Bulk GaN. <i>Acta Physica Polonica A</i> , 2001 , 100, 229-232	0.6	16	
253	Nitride-based quantum structures and devices on modified GaN substrates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 1130-1134	1.6	15	
252	. Proceedings of the IEEE, 2010 , 98, 1214-1219	14.3	15	
251	Selective etching of dislocations in violet-laser diode structures. <i>Journal of Crystal Growth</i> , 2006 , 293, 18-21	1.6	15	
250	High pressure fabrication and processing of GaN:Mg. <i>Materials Science and Engineering B:</i> Solid-State Materials for Advanced Technology, 1999 , 59, 1-5	3.1	15	
249	Thermal Expansion of GaN Bulk Crystals and Homoepitaxial Layers. <i>Acta Physica Polonica A</i> , 1996 , 90, 887-890	0.6	15	
248	Hole carrier concentration and photoluminescence in magnesium doped InGaN and GaN grown on sapphire and GaN misoriented substrates. <i>Journal of Applied Physics</i> , 2010 , 108, 023516	2.5	14	
247	Blue light-emitting diodes on GaN substrates, growth and characterization. <i>Journal of Crystal Growth</i> , 1998 , 189-190, 167-171	1.6	14	
246	Optically pumped GaNAlGaN separate-confinement heterostructure laser grown along the (112🗅) nonpolar direction. <i>Applied Physics Letters</i> , 2007 , 90, 081104	3.4	14	
245	Etching, Raman and PL study of thick HVPE-grown GaN. <i>Materials Science in Semiconductor Processing</i> , 2006 , 9, 175-179	4.3	14	
244	Bulk GaN crystals grown at high pressure as substrates for blue-laser technology. <i>Physica Status Solidi A</i> , 2003 , 200, 9-12		14	
243	Study of dopant activation in bulk GaN:Mg. <i>Physica B: Condensed Matter</i> , 2001 , 308-310, 47-50	2.8	14	
242	High nitrogen pressure growth of GaN crystals and their applications for epitaxy of GaN [based structures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 82, 30-34	3.1	14	
241	Ultralow threshold powers for optical pumping of homoepitaxial InGaN/GaN/AlGaN lasers. <i>Applied Physics Letters</i> , 2002 , 81, 3735-3737	3.4	14	
240	Final polishing of Ga-polar GaN substrates using reactive ion etching. <i>Journal of Electronic Materials</i> , 1999 , 28, 1448-1451	1.9	14	

239	Photoluminescence in doped GaN bulk crystal. <i>Journal of Physics and Chemistry of Solids</i> , 1995 , 56, 353	-355	14
238	Photoluminescence and Electron Paramagnetic Resonance Studies of Bulk GaN Doped with Gadolinium. <i>Acta Physica Polonica A</i> , 2006 , 110, 243-248	0.6	14
237	HVPE-GaN growth on misoriented ammonothermal GaN seeds. <i>Journal of Crystal Growth</i> , 2014 , 403, 32-37	1.6	13
236	Tailoring the light-matter coupling in anisotropic microcavities: Redistribution of oscillator strength in strained m-plane GaN/AlGaN quantum wells. <i>Physical Review B</i> , 2011 , 84,	3.3	13
235	Exciton dynamics in homoepitaxial GaN. Solid State Communications, 1997, 104, 205-209	1.6	13
234	Strain-compensated AlGaNtaNlhGaN cladding layers in homoepitaxial nitride devices. <i>Applied Physics Letters</i> , 2007 , 91, 231914	3.4	13
233	Selective etching and TEM study of inversion domains in Mg-doped GaN epitaxial layers. <i>Journal of Crystal Growth</i> , 2005 , 282, 45-48	1.6	13
232	Electronic band structure of gallium nitride: a comparative angle-resolved photoemission study of single crystals and thin films. <i>Surface Science</i> , 2002 , 507-510, 223-228	1.8	13
231	Infrared studies on GaN single crystals and homoepitaxial layers. <i>Journal of Crystal Growth</i> , 2000 , 218, 161-166	1.6	13
230	Electron spin resonance of erbium in gallium nitride. Solid State Communications, 2000, 114, 39-42	1.6	13
229	Localized vibrational modes in GaN:O tracing the formation of oxygen DX-like centers under hydrostatic pressure. <i>Physical Review B</i> , 2000 , 61, 8202-8206	3.3	13
228	The effect of threading dislocations, Mg doping, and etching on the spectral responsivity in GaN-based ultraviolet detectors. <i>Journal of Applied Physics</i> , 1999 , 86, 4588-4593	2.5	13
227	Dislocation Structure of Growth Hillocks in Homoepitaxial GaN. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 649-654	1.3	13
226	Iron and manganese as dopants used in the crystallization of highly resistive HVPE-GaN on native seeds. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SC1047	1.4	12
225	Growth of GaN:Mg crystals by high nitrogen pressure solution method in multi-feedBeed configuration. <i>Journal of Crystal Growth</i> , 2012 , 350, 50-55	1.6	12
224	Mismatch relaxation by stacking fault formation of AlN islands in AlGaN/GaN structures on m-plane GaN substrates. <i>Applied Physics Letters</i> , 2011 , 99, 061901	3.4	12
223	Mode dynamics of high power (InAl)GaN based laser diodes grown on bulk GaN substrate. <i>Journal of Applied Physics</i> , 2007 , 101, 083109	2.5	12
222	Growth of bulk GaN by HVPE on pressure grown seeds 2006 ,		12

(2008-2002)

221	Energy gap in GaN bulk single crystal between 293 and 1237 K. <i>Journal of Crystal Growth</i> , 2002 , 235, 111-114	1.6	12
220	Sill exchange interaction in GaN:Mn studied by electron paramagnetic resonance. <i>Applied Physics Letters</i> , 2003 , 83, 5428-5430	3.4	12
219	Blue lasers on high pressure grown GaN single crystal substrates. <i>Europhysics News</i> , 2004 , 35, 69-63	0.2	12
218	DX-like behavior of oxygen in GaN. <i>Physica B: Condensed Matter</i> , 2001 , 302-303, 23-38	2.8	12
217	Mechanism of radiative recombination in acceptor-doped bulk GaN crystals. <i>Physica B: Condensed Matter</i> , 1999 , 273-274, 39-42	2.8	12
216	Two-Electron Transition in Homoepitaxial GaN Layers. <i>Acta Physica Polonica A</i> , 1997 , 92, 742-744	0.6	12
215	High Pressure Solution Growth of Gallium Nitride. Springer Series in Materials Science, 2010 , 207-234	0.9	12
214	Influence of substrate misorientation on properties of InGaN layers grown on freestanding GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 1485-1487		11
213	Blue-Laser Structures Grown on Bulk GaN Crystals. <i>Physica Status Solidi A</i> , 2002 , 192, 320-324		11
212	Surface states on GaN()(11)En angle-resolved photoemission study. <i>Surface Science</i> , 2002 , 507-510, 186-191	1.8	11
211	Pressure and Time-Resolved Photoluminescence Studies of Mg-Doped and Undoped GaN. <i>Physica Status Solidi (B): Basic Research</i> , 1996 , 198, 235-241	1.3	11
210	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
209	HVPE-GaN growth on ammonothermal GaN crystals 2013,		10
208	C-plane bowing in free standing GaN crystals grown by HVPE on GaN-sapphire substrates with photolithographically patterned Ti masks. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 2117-2119		10
207	Bulk GaN crystals and wafers grown by HVPE without intentional doping. <i>Physica Status Solidi C:</i> Current Topics in Solid State Physics, 2009 , 6, S297-S300		10
206	Observation of Native Ga Vacancies in GaN by Positron Annihilation. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 482, 778		10
205	Modelling the growth of nitrides in ammonia-rich environment. <i>Crystal Research and Technology</i> , 2007 , 42, 1281-1290	1.3	10
204	Fabrication and properties of GaN-based lasers. <i>Journal of Crystal Growth</i> , 2008 , 310, 3979-3982	1.6	10

203	Application of orthodox defect-selective etching for studying GaN single crystals, epitaxial layers and device structures. <i>EPJ Applied Physics</i> , 2004 , 27, 247-249	1.1	10
202	Capture kinetics at dislocation-related deep levels in III-V heterostructures. <i>EPJ Applied Physics</i> , 2004 , 27, 201-205	1.1	10
201	Optical and electrical properties of Be doped GaN bulk crystals. <i>Journal of Crystal Growth</i> , 2001 , 230, 368-371	1.6	10
200	Angle Resolved Photoemission Spectroscopy of GaN (101-0): Experiment and Theory. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 215, 751-755	1.3	10
199	Electrical Properties of GaN Bulk Single Crystals Doped with Mg. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 567-570	1.3	10
198	RHEED Studies of Group III-Nitrides Grown by MBE. <i>Physica Status Solidi A</i> , 1999 , 176, 723-726		10
197	Physical properties of GaN and AlN under pressures up to 0.5 Mbar. <i>Physica B: Condensed Matter</i> , 1993 , 185, 426-427	2.8	10
196	High quality m-plane GaN grown under nitrogen-rich conditions by plasma assisted molecular beam epitaxya). <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2011 , 29, 03C135	1.3	9
195	Tilt of InGaN layers on miscut GaN substrates. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 142	:- 1 .4 5 4	9
194	Homoepitaxial layers of gallium nitride grown by metalorganic vapour phase epitaxy. <i>Semiconductor Science and Technology</i> , 1997 , 12, 240-243	1.8	9
193	Low dislocation density, high power InGaN laser diodes. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 2004 , 9, 1		9
192	High-power laser structures grown on bulk GaN crystals. <i>Journal of Crystal Growth</i> , 2004 , 272, 274-277	1.6	9
191	Interaction between Sm and GaNII photoemission study. Surface Science, 2004, 551, 132-142	1.8	9
190	Diffusion length of carriers and excitons in GaNInfluence of epilayer microstructure. <i>Applied Surface Science</i> , 2004 , 223, 294-302	6.7	9
189	The role of oxygen and hydrogen in GaN. <i>Physica B: Condensed Matter</i> , 2001 , 308-310, 117-121	2.8	9
188	Polarity of GaN. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 512, 363		9
187	Adsorption of N2 and H2 at AlN(0001) Surface: Ab Initio Assessment of the Initial Stage of Ammonia Catalytic Synthesis. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20301-20311	3.8	8
186	Temperature-Dependence of Exciton Radiative Recombination in (Al,Ga)N/GaN Quantum Wells Grown ona-Plane GaN Substrates. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 08JC01	1.4	8

185	High nitrogen pressure solution growth of bulk GaN in fleed-seed Lonfiguration. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1507-1510	1.6	8
184	Electron spin resonance and Rashba field in GaN-based materials. <i>Physica B: Condensed Matter</i> , 2011 , 406, 2548-2554	2.8	8
183	High temperature chemical and physical changes of the HVPE-prepared GaN semiconductor. <i>Materials Chemistry and Physics</i> , 2010 , 122, 537-543	4.4	8
182	Interactions of LO Phonons with Bound Excitons in Homoepitaxial GaN. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 482, 545		8
181	Crystallization of free standing bulk GaN by HVPE. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 1453-1456		8
180	Magnetic resonance studies of defects in GaN with reduced dislocation densities. <i>Physica B: Condensed Matter</i> , 2001 , 308-310, 51-57	2.8	8
179	ODMR of bound excitons in Mg-doped GaN. <i>Physica B: Condensed Matter</i> , 1999 , 273-274, 120-123	2.8	8
178	Polarised Magnetoluminescence of Excitons in Homoepitaxial GaN Layers. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 11-15	1.3	8
177	Relaxation Processes of AlGaN/GaN Heterostructures Grown onto Single Crystal GaN(0001) Substrates. <i>Physica Status Solidi A</i> , 1999 , 176, 285-290		8
176	Stability of indium nitride at N2 pressure up to 20 kbar. AIP Conference Proceedings, 1994,	O	8
176 175	Stability of indium nitride at N2 pressure up to 20 kbar. <i>AIP Conference Proceedings</i> , 1994 , On the liquidus curve for GaN. <i>High Pressure Research</i> , 1991 , 7, 284-286	0	8
Í			
175	On the liquidus curve for GaN. <i>High Pressure Research</i> , 1991 , 7, 284-286 Crystal growth of GaP doped with nitrogen under high nitrogen pressure. <i>Journal of Crystal Growth</i> ,	1.6	8
175 174	On the liquidus curve for GaN. <i>High Pressure Research</i> , 1991 , 7, 284-286 Crystal growth of GaP doped with nitrogen under high nitrogen pressure. <i>Journal of Crystal Growth</i> , 1985 , 72, 711-716 Growth of HVPE-GaN on native seeds [humerical simulation based on experimental results.	1.6	8
175 174 173	On the liquidus curve for GaN. <i>High Pressure Research</i> , 1991 , 7, 284-286 Crystal growth of GaP doped with nitrogen under high nitrogen pressure. <i>Journal of Crystal Growth</i> , 1985 , 72, 711-716 Growth of HVPE-GaN on native seeds [humerical simulation based on experimental results. <i>Journal of Crystal Growth</i> , 2016 , 456, 86-90 Why InGaN laser-diode degradation is accompanied by the improvement of its thermal stability	1.6	8 8 8
175 174 173	On the liquidus curve for GaN. <i>High Pressure Research</i> , 1991 , 7, 284-286 Crystal growth of GaP doped with nitrogen under high nitrogen pressure. <i>Journal of Crystal Growth</i> , 1985 , 72, 711-716 Growth of HVPE-GaN on native seeds [humerical simulation based on experimental results. <i>Journal of Crystal Growth</i> , 2016 , 456, 86-90 Why InGaN laser-diode degradation is accompanied by the improvement of its thermal stability 2008 , Platelets and needles: Two habits of pressure-grown GaN crystals. <i>Journal of Crystal Growth</i> , 2007 ,	1.6 1.6	8 8 8 7
175 174 173 172	On the liquidus curve for GaN. <i>High Pressure Research</i> , 1991 , 7, 284-286 Crystal growth of GaP doped with nitrogen under high nitrogen pressure. <i>Journal of Crystal Growth</i> , 1985 , 72, 711-716 Growth of HVPE-GaN on native seeds [humerical simulation based on experimental results. <i>Journal of Crystal Growth</i> , 2016 , 456, 86-90 Why InGaN laser-diode degradation is accompanied by the improvement of its thermal stability 2008 , Platelets and needles: Two habits of pressure-grown GaN crystals. <i>Journal of Crystal Growth</i> , 2007 , 305, 414-420 Atomically flat GaMnN by diffusion of Mn into GaN(0001). <i>Superlattices and Microstructures</i> , 2006 ,	1.6 1.6 1.6	8 8 8 7 7

167	Growth of GaN on patterned GaN/sapphire substrates by high pressure solution method. <i>Journal of Crystal Growth</i> , 2005 , 281, 11-16	1.6	7
166	High-pressure direct synthesis of aluminium nitride. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 112	37 . 812	24 7
165	Selective excitation of the yellow luminescence of GaN. <i>Physica B: Condensed Matter</i> , 1999 , 273-274, 75-79	2.8	7
164	HVPE-GaN growth on GaN-based Advanced Substrates by Smart Cut\(\textstyle{\pi}\) Journal of Crystal Growth, 2016 , 456, 73-79	1.6	7
163	Homoepitaxial growth by halide vapor phase epitaxy of semi-polar GaN on ammonothermal seeds. Japanese Journal of Applied Physics, 2019 , 58, SC1030	1.4	6
162	Characterization of the Nonpolar GaN Substrate Obtained by Multistep Regrowth by Hydride Vapor Phase Epitaxy. <i>Applied Physics Express</i> , 2012 , 5, 011001	2.4	6
161	High nitrogen pressure solution (HNPS) growth of GaN on 2 inch free standing GaN substrates. <i>Science China Technological Sciences</i> , 2011 , 54, 42-46	3.5	6
160	Doping, Activation of Impurities, and Defect Annihilation in GaN by High Pressure Annealing. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 482, 946		6
159	Capture kinetics at deep-level electron traps in GaN-based laser diode. <i>Physica Status Solidi C:</i> Current Topics in Solid State Physics, 2007 , 4, 2878-2882		6
158	Crystallization of GaN by HVPE on pressure grown seeds. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 1654-1657	1.6	6
157	Role of band potential roughness on the luminescence properties of InGaN quantum wells grown by MBE on bulk GaN substrates. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 1614-1618	1.3	6
156	Properties of InGaN blue laser diodes grown on bulk GaN substrates. <i>Journal of Crystal Growth</i> , 2005 , 281, 107-114	1.6	6
155	Influence of dislocation and ionized impurity scattering on the electron mobility in GaN/AlGaN heterostructures. <i>Journal of Crystal Growth</i> , 2005 , 281, 194-201	1.6	6
154	Cw and time-resolved spectroscopy in homoepitaxial GaN films and GaNtaAlN quantum wells grown by molecular beam epitaxy. <i>Solid State Communications</i> , 2001 , 117, 445-448	1.6	6
153	MOVPE homoepitaxy of high-quality GaN: Crystal growth and devices. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2000 , 41, 57-83	3.5	6
152	GaN Homoepitaxy for Device Applications. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 1999 , 4, 878-889		6
151	Annealing of gallium nitride under high-N2 pressure. <i>Physica B: Condensed Matter</i> , 1999 , 265, 295-299	2.8	6
150	Micro Defects in Nearly Dislocation Free GaN Doped with Mg during High Pressure Crystallization. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 216, 537-540	1.3	6

(2020-1999)

149	TEM Study of Mg-Doped Bulk GaN Crystals. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 572, 363		6
148	Growth and Properties of Bulk Single Crystals of GaN. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 395, 15		6
147	Application of GaN Pressure Grown Crystals for Epitaxy of GaN-Based Structures. <i>Acta Physica Polonica A</i> , 2000 , 98, 183-193	0.6	6
146	Diffusion of oxygen in bulk GaN crystals at high temperature and at high pressure. <i>Journal of Crystal Growth</i> , 2016 , 449, 35-42	1.6	6
145	Preparation of a smooth GaNtGallium solidtquid interface. Journal of Crystal Growth, 2016, 448, 70-75	1.6	6
144	Structural defects in bulk GaN. Journal of Crystal Growth, 2014, 403, 66-71	1.6	5
143	Photo-etching of HVPE-grown GaN: Revealing extended non-homogeneities induced by periodic carrier gas exchange. <i>Journal of Crystal Growth</i> , 2014 , 403, 77-82	1.6	5
142	Role and influence of impurities on GaN crystal grown from liquid solution under high nitrogen pressure in multi-feed-seed configuration 2013 ,		5
141	Imaging extended non-homogeneities in HVPE grown GaN with Kelvin Probe Microscopy and photo-etching. <i>Journal of Crystal Growth</i> , 2012 , 353, 68-71	1.6	5
140	High nitrogen pressure solution growth of GaN in multi feed-seed configuration. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 453-456		5
139	Nonlinear emission properties of an optically anisotropic GaN-based microcavity. <i>Physical Review B</i> , 2012 , 86,	3.3	5
138	Broad-area high-power CW operated InGaN laser diodes 2006 , 6133, 168		5
137	Observation of localization effects in InGaN/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
136	Photoemission study of Mn/GaN. Surface Science, 2004, 566-568, 457-461	1.8	5
135	Seeded growth of GaN at high N2 pressure on (0001) polar surfaces of GaN single crystalline substrates. <i>Materials Science in Semiconductor Processing</i> , 2001 , 4, 535-541	4.3	5
134	Surface reconstruction patterns of GaN grown by molecular beam epitaxy on GaN bulk crystals. Journal of Crystal Growth, 1999 , 207, 1-7	1.6	5
133	InN Thermodynamics and Crystal Growth at High Pressure of N2. <i>Japanese Journal of Applied Physics</i> , 1993 , 32, 343	1.4	5
132	Experimental and theoretical evidence of the temperature-induced wurtzite to rocksalt phase transition in GaN under high pressure. <i>Physical Review B</i> , 2020 , 102,	3.3	5

131	Growth of Bulk GaN Crystals by HVPE on Single Crystalline GaN Seeds. <i>Springer Series in Materials Science</i> , 2010 , 61-78	0.9	4
130	The nature of Cr center in GaN: Magnetic anisotropy of GaN:Cr single crystals. <i>Journal of Applied Physics</i> , 2012 , 112, 113914	2.5	4
129	Polarity identification of GaN bulk single crystals (0001) surface by Auger electron spectroscopy. <i>Crystal Research and Technology</i> , 1997 , 32, 229-233	1.3	4
128	Towards identification of degradation mechanisms in InGaN laser diodes grown on bulk GaN crystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 1778-1782	1.6	4
127	Properties of violet laser diodes grown on bulk GaN substrates 2005 ,		4
126	Resonant shake-up satellites in photoemission at the Ga 3p photothreshold in GaN. <i>Solid State Communications</i> , 2005 , 136, 191-195	1.6	4
125	Time-resolved spectroscopy of MBE-grown GaN/AlGaN 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
124	(GaMg)N new semiconductor grown at high pressure of nitrogen. <i>Journal of Crystal Growth</i> , 1999 , 207, 27-29	1.6	4
123	Synthesis of A1N under high nitrogen pressure. <i>High Pressure Research</i> , 1992 , 9, 288-291	1.6	4
122	Crystallographic Properties of Bulk GaN Crystals Grown at High Pressure. <i>Acta Physica Polonica A</i> , 1995 , 88, 799-802	0.6	4
121	Melting of tetrahedrally bonded semiconductors: anomalylof the phase diagram of GaN?. <i>Journal of Crystal Growth</i> , 2019 , 505, 5-9	1.6	4
120	Catalytic Synthesis of Nitric Monoxide at the AlN(0001) Surface: Ab Initio Analysis. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10893-10906	3.8	3
119	Homoepitaxial HVPE GaN growth on non- and semi-polar seeds 2015,		3
118	Complex Geometric Structure of a Simple Solid-Liquid Interface: GaN(0001)-Ga. <i>Physical Review Letters</i> , 2020 , 124, 086101	7.4	3
117	The influence of indium on the growth of GaN from solution under high pressure. <i>Journal of Crystal Growth</i> , 2010 , 312, 2593-2598	1.6	3
116	Magneto-optical studies of iron impurity in HVPE GaN. <i>Physica B: Condensed Matter</i> , 2007 , 401-402, 458	3- 4 631	3
115	Gain mechanisms in field-free InGaN layers grown on sapphire and bulk GaN substrate. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007 , 1, 141-143	2.5	3
114	High rate photoelectrochemical etching of GaN and the use of patterned substrates for HVPE regrowth. <i>Journal of Crystal Growth</i> , 2008 , 310, 3478-3481	1.6	3

(2006-2007)

113	Comparison of gain in group-III-nitride laser structures grown by metalorganic vapour phase epitaxy and plasma-assisted molecular beam epitaxy on bulk GaN substrates. <i>Semiconductor Science and Technology</i> , 2007 , 22, 736-741	1.8	3
112	GaN surface doped with Fe atoms. Journal of Alloys and Compounds, 2006, 423, 136-138	5.7	3
111	Growth and characterization of AlinN/GaInN quantum wells for high-speed intersubband devices at telecommunication wavelengths 2006 ,		3
110	Screening of polarization induced electric fields in blue/violet InGaN/GaN laser diodes by Si doping in quantum barriers revealed by hydrostatic pressure. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 2303-2306		3
109	Compensation mechanisms in magnesium doped GaN. <i>Physica Status Solidi A</i> , 2004 , 201, 216-220		3
108	Influence of the substrate on the photo-luminescence dynamics in GaInN epilayers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002 , 93, 73-76	3.1	3
107	Photoemission study of samarium on GaN(0001) and CdTe(1 0 0). <i>Applied Surface Science</i> , 2002 , 190, 356-360	6.7	3
106	Dynamics of trapping on donors and relaxation of the B-exciton in GaN. <i>Physica Status Solidi (B):</i> Basic Research, 2003 , 235, 31-35	1.3	3
105	III-N ternary epi-layers grown on the GaN bulk crystals. <i>Journal of Crystal Growth</i> , 2001 , 231, 352-356	1.6	3
104	GaN Homoepitaxy for Device Applications. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 537, 1		3
103	Propagation of phonon pulses in crystalline GaN. <i>Physica B: Condensed Matter</i> , 1999 , 263-264, 727-729	2.8	3
102	(GaMg)N [New Wide Band Gap Semiconductor. <i>Physica Status Solidi A</i> , 1999 , 176, 343-346		3
101	Phase Transformations and p-T Diagram of Some HgX Compounds (X=S, Se, Te). <i>Japanese Journal of Applied Physics</i> , 1993 , 32, 26	1.4	3
100	Defect Studies of GaN under Large Hydrostatic Pressure. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 395, 417		3
99	A new determination of the phase diagram of Hg1-xFexTe. Application to crystallization of II-VI compounds under high gas pressure. <i>Semiconductor Science and Technology</i> , 1991 , 6, 483-486	1.8	3
98	Measurement of Very Small Zeeman Splittings in GaN:Mn,Mg by Faraday Rotation. <i>Acta Physica Polonica A</i> , 2002 , 102, 695-699	0.6	3
97	Photoluminescence Study of Bulk GaN Doped with Beryllium. <i>Acta Physica Polonica A</i> , 2005 , 108, 705-7	1 0 .6	3
96	Crack Free GalnN/AlinN Multiple Quantum Wells Grown on GaN with Strong Intersubband Absorption at 1.55th. <i>Acta Physica Polonica A</i> , 2006 , 110, 175-181	0.6	3

95	The homoepitaxial challenge: GaN crystals grown at high pressure for laser diodes and laser diode arrays 2013 , 18-77		3
94	First Step in Exploration of Fetall System for Efficient Crystallization of GaN at High N2 Pressure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1700897	1.6	2
93	GaN Bulk Substrates Grown under Pressure from Solution in Gallium 2010 , 173-207		2
92	Carrier recombination under one-photon and two-photon excitation in GaN epilayers. <i>Micron</i> , 2009 , 40, 118-21	2.3	2
91	Influence of free electrons and point defects on the lattice parameters and thermal expansion of gallium nitride. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1997 , 19, 585-590		2
90	Tunable broad-area InGaN laser diodes in external cavity 2007 ,		2
89	Growth of GaN on patterned GaN/sapphire substrates with various metallic masks by high pressure solution method 2006 ,		2
88	Mass flow and reaction analysis of the growth of GaN by HVPE. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 131-134	1.6	2
87	Resonant photoemission study of Ti interaction with GaN surface. Surface Science, 2006, 600, 873-879	1.8	2
86	Bowing of GaN bulk crystals with mismatched epitaxial structures of (AlInGa)N. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 1031-1034		2
85	Localization Effects in InGaN/GaN Double Heterostructure Laser Diode Structures Grown on Bulk GaN Crystals. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 7244-7249	1.4	2
84	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
83	High Magnetic Field Studies of AlGaN/GaN Heterostructures Grown on Bulk GaN, SiC, and Sapphire Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 639, 731		2
82	Two-dimensional electron gas scattering mechanisms in AlGaN/GaN heterostructures. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 639, 751		2
81	The Application of High Nitrogen Pressure in the Physics and Technology of III Compounds. Semiconductors and Semimetals, 1998 , 55, 353-379	0.6	2
80	Properties of Homoepitaxially MBE-Grown GaN. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 423, 329		2
79	Observation of Magnetic Anisotropy in Bulk GaMnN:Mg Crystals. <i>Acta Physica Polonica A</i> , 2003 , 103, 66	5 ∕66 9	2
78	Cathodoluminescence Profiling of InGaN-Based Quantum Well Structures and Laser Diodes - In-Plane Instabilities of Light Emission. <i>Acta Physica Polonica A</i> , 2003 , 103, 689-694	0.6	2

77	Deep-Level Defects in MBE-Grown GaN-Based Laser Structure. Acta Physica Polonica A, 2007, 112, 331-	337 6	2
76	Time-Resolved Studies of Gallium Nitride Doped with Gadolinium. <i>Acta Physica Polonica A</i> , 2008 , 114, 1425-1430	0.6	2
75	Luminescence Dynamics of Exciton Replicas in Homoepitaxial GaN Layers. <i>Acta Physica Polonica A</i> , 1997 , 92, 841-844	0.6	2
74	Homo- and Hetero-Epitaxial Gallium Nitride Grown by Molecular Beam Epitaxy. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 1999 , 4, 484-489		2
73	Homo-epitaxial growth on misoriented GaN substrates by MOCVD. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 2000 , 5, 425-431		2
72	Nitrogen Dissolution in Liquid Ga and Fe: Comprehensive Analysis, Relevance for Crystallization of GaN. <i>Materials</i> , 2021 , 14,	3.5	2
71	Relaxation Processes of AlGaN/GaN Heterostructures Grown onto Single Crystal GaN(0001) Substrates 1999 , 176, 285		2
70	True-blue laser diodes grown by plasma-assisted MBE on bulk GaN substrates. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 666-669		1
69	A Monolithic White-Light LED Based on GaN Doped with Be. <i>Advances in Science and Technology</i> , 2014 , 93, 264-269	0.1	1
68	Unambiguous relationship between photoluminescence energy and its pressure evolution in InGaN/GaN quantum wells. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 476-479	1.3	1
67	Influence of substrate planar defects on MOVPE GaN layer growth. <i>Physica Status Solidi (A)</i> Applications and Materials Science, 2013 , 210, 503-506	1.6	1
66	Structural defects in GaN crystals grown by HVPE on needle-shaped GaN seeds obtained under high N2 pressure. <i>Journal of Crystal Growth</i> , 2009 , 311, 1407-1410	1.6	1
65	Processing of Mechanically Polished Surfaces of Bulk GaN Substrates. ECS Transactions, 2011, 41, 149-1	56	1
64	Ca3N2 as a flux for crystallization of GaN. Journal of Crystal Growth, 2010, 312, 2574-2578	1.6	1
63	Nonpolar GaN Quasi-Wafers Sliced from Bulk GaN Crystals Grown by High-Pressure Solution and HVPE Methods53-71		1
62	Platelets and needles: two habits of pressure grown GaN crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 2236-2239		1
61	Liquid phase epitaxy of GaN on MOCVD GaN/sapphire and HVPE free-standing substrates under high nitrogen pressure. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 1539-1542		1
60	Growth of GaN on patterned thick HVPE free standing GaN substrates by high pressure solution method. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 1487-1490		1

59	Barrier-to-well carrier dynamics of InGaN/GaN multi-quantum-wells grown by plasma assisted MBE on bulk GaN substrates. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 1962-1965		1
58	Optical properties of InGaN/GaN quantum wells on sapphire and bulk GaN substrate. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 2078-2081		1
57	Growth of bulk GaN on GaN/sapphire templates by a high N2 pressure method. <i>Physica Status Solidi</i> (B): Basic Research, 2004 , 241, 2685-2688	1.3	1
56	Surface and electronic structure of Ga0.92In0.08N thin film investigated by photoelectron spectroscopy. <i>Thin Solid Films</i> , 2005 , 476, 396-404	2.2	1
55	Bowing of epitaxial layers grown on bulk GaN substrates. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 1259-1264		1
54	Microstructure of III-N semiconductors related to their applications in optoelectronics. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 1366-1373		1
53	Anomalous behaviour of the photoluminescence from GaN/AlGaN quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 1010-1013		1
52	Screening of built-in electric fields in group III-nitride laser diodes observed by means of hydrostatic pressure. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 1019-1022		1
51	Microstructure of InGaN quantum wells grown on GaN single crystals and sapphire. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, A89-A92	3	1
50	Luminescence of nonthermalized electron-hole plasma in GaN epilayers 2001,		1
49	Coexistence of Shallow and Localized Donor Centers in Bulk GaN Crystals Studied by High-Pressure Raman Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 449, 689		1
48	Three zone furnace for crystal growth under high pressure. <i>High Pressure Research</i> , 1992 , 8, 492-494	1.6	1
47	Relationship between Sample Morphology and Carrier Diffusion Length in GaN Thin Films. <i>Acta Physica Polonica A</i> , 2002 , 102, 627-632	0.6	1
46	High Power Continuous Wave Blue InAlGaN Laser Diodes Made by Plasma Assisted MBE. <i>Acta Physica Polonica A</i> , 2006 , 110, 345-351	0.6	1
45	High Temperature Stability of Electrical and Optical Properties of Bulk GaN:Mg Grown by HNPS Method in Different Crystallographic Directions. <i>Acta Physica Polonica A</i> , 2016 , 129, A-126-A-128	0.6	1
44	Coupling of LO Phonons to Excitons in GaN. <i>Acta Physica Polonica A</i> , 1996 , 90, 981-984	0.6	1
43	Luminescence Efficiency of InGaN/GaN Quantum Wells on Bulk GaN Substrate. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 892, 747		1
42	GaN Single Crystals Grown by High Pressure Solution Method <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 1998 , 7, 760-762	0	1

(2004-2003)

41	Localization Effects in GaN/AlGaN Quantum Well - Photoluminescence Studies. <i>Acta Physica Polonica A</i> , 2003 , 103, 573-578	0.6	1
40	Influence of crystallization front direction on the Mg-related impurity centers incorporation in bulk GaN:Mg grown by HNPS method. <i>Optical Materials</i> , 2016 , 58, 491-496	3.3	1
39	Physical properties of Ga-Fe-N system relevant for crystallization of GaN Initial studies. <i>Journal of Crystal Growth</i> , 2019 , 507, 77-86	1.6	1
38	On Stress-Induced Polarization Effect in Ammonothermally Grown GaN Crystals. <i>Crystals</i> , 2022 , 12, 554	2.3	1
37	MAGNETO-LUMINESCENCE OF GADOLINIUM DOPED GALLIUM NITRIDE. <i>International Journal of Modern Physics B</i> , 2009 , 23, 2994-2998	1.1	О
36	MnAs Overlayer on GaN(0001)-(1년) - Its Growth, Morphology and Electronic Structure. <i>Acta Physica Polonica A</i> , 2004 , 105, 645-650	0.6	O
35	Physical properties of GaN and AlN under pressures up to 0.5 Mbar 1993 , 426-427		О
34	InAlGaN laser diodes grown by plasma assisted molecular beam epitaxy. <i>Lithuanian Journal of Physics</i> , 2011 , 51, 276-282	1.1	0
33	Adsorption of nitrogen at AlN(000-1) surface Decisive role of structural and electronic factors. <i>Surface Science</i> , 2021 , 713, 121891	1.8	О
32	What is new in nitride laser diodes reliability studies. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, S881-S884		
31	Thermodynamics and Growth of GaN Single Crystals Under Pressure. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 499, 349		
30	Adsorption and dissolution of nitrogen in lithium DM DFT investigation. <i>Journal of Crystal Growth</i> , 2007 , 304, 299-309	1.6	
29	Optical gain and saturation behavior in homoepitaxially grown InGaN/GaN/AlGaN laser structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 82-85		
28	Optically pumped lasing of GaN/AlGaN structures grown along a non-polar crystallographic direction. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 2173-2175		
27	High-Pressure Crystallization of GaN 2006 , 1-43		
26	In-depth and in-plane profiling of light emission properties of InGaN-based laser diode. <i>Physica Status Solidi A</i> , 2004 , 201, 207-211		
25	Optical detection of 2DEG in GaN/AlGaN structures [High magnetic field studies. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 193-197		
24	GaN based light emitters fabricated on bulk GaN substrates. New class of low dislocation density devices. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 1505-1510		_

23	Intrinsic Mechanisms of Stimulated Emission in Homoepitaxial GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 516-519	
22	The influence of erbium on the physical properties of GaN crystals grown from N solution in Ga at high nitrogen pressure. <i>High Pressure Research</i> , 2000 , 18, 35-39	1.6
21	Mg Segregation, Difficulties of P-Doping in GaN. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 2000 , 5, 500-506	
20	Light emitters fabricated on bulk GaN substrates. Challenges and achievements <i>Materials Research Society Symposia Proceedings</i> , 2001 , 693, 561	
19	Magneto-Spectroscopy of Two-Electron Transitions in Homoepitaxial GaN <i>Materials Research Society Symposia Proceedings</i> , 2001 , 693, 739	
18	Homo- and Hetero-Epitaxial Gallium Nitride Grown by Molecular Beam Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 537, 1	
17	Homo-Epitaxial Growth on Misoriented GaN Substrates by MOCVD. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 595, 1	
16	Mg Segregation, Difficulties of P-Doping in GaN. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 595, 1	
15	Crystal growth of Hg-Fe-Te alloys under high gas pressure. <i>High Pressure Research</i> , 1991 , 7, 307-309	1.6
14	Thermodynamical properties of the Ga?P?N2 system under high nitrogen pressure. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics,</i> 1986 , 139-140, 347-348	
13	Nitrogen incorporation in GaP obtained by crystallization from melt under high N2 pressure. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1986 , 139-140, 650-653	
12	Mn Impurity in GaN Studied by Electron Paramagnetic Resonance. <i>Acta Physica Polonica A</i> , 2003 , 103, 595-600	0.6
11	Optically Pumped InGaN/GaN/AlGaN MQW Laser Structures 2004 , 247-252	
10	Stimulated Emission from the MBE Grown Homoepitaxial InGaN Based Multiple Quantum Wells Structures. <i>Acta Physica Polonica A</i> , 2005 , 107, 225-229	0.6
9	Optically Pumped Laser Action on Nitride Based Separate Confinement Heterostructures Grown along the (11[20) Crystallographic Direction. <i>Acta Physica Polonica A</i> , 2007 , 112, 467-472	0.6
8	Magnetoluminescence Studies of GaN:Fe. <i>Acta Physica Polonica A</i> , 2007 , 112, 177-182	0.6
7	Correlating compositional, structural and optical properties of InGaN quantum wells by transmission electron microscopy 2018 , 267-272	
6	III-V Semiconducting Nitrides Energy Gap under Pressure. <i>Acta Physica Polonica A</i> , 1992 , 82, 674-676	0.6

LIST OF PUBLICATIONS

5 Crystal growth of III-N compounds under high nitrogen pressure **1993**, 99-102

Mechanisms of Yellow and Red Photoluminescence in Wurtzite and Cubic GaN. *Acta Physica Polonica A*, **1998**, 94, 326-330

0.6

- 3 LASER DIODES GROWN ON BULK GALLIUM NITRIDE SUBSTRATES **2008**, 223-252
- Observation of Magnetic Anisotropy in GaN:Cr Single Crystals. *Acta Physica Polonica A*, **2012**, 122, 1007-1069
- Recent Progress in Crystal Growth of Bulk GaN. *Acta Physica Polonica A*, **2022**, 141, 167-174

0.6