# Markus Weyers

# 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.

9,086 41 495 74 h-index g-index citations papers 536 5.76 10,220 2.1 L-index ext. citations avg, IF ext. papers

#	Paper	IF	Citations
495	Impact of Si doping on dislocation behavior in MOVPE-grown AlN on high-temperature annealed AlN buffer layers. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 045702	2.5	1
494	Impact of operation parameters on the degradation of 233 nm AlGaN-based far-UVC LEDs. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 014501	2.5	5
493	High-quality AlGaN epitaxy on lattice-engineerable AlN template for high-power UVC light-emitting diodes. <i>Acta Materialia</i> , <b>2022</b> , 226, 117625	8.4	2
492	Passively Q-switched microchip laser based picosecond light source in the visible-red to near-infrared band for semiconductor excitation <i>Optics Express</i> , <b>2022</b> , 30, 15428-15435	3.3	0
491	In situ control of indium incorporation in (AlGa)1IIInxP layers. <i>Journal of Crystal Growth</i> , <b>2022</b> , 590, 126	69.66	
490	Role of oxygen diffusion in the dislocation reduction of epitaxial AlN on sapphire during high-temperature annealing. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 203101	2.5	1
489	Origin of defect luminescence in ultraviolet emitting AlGaN diode structures. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 202101	3.4	1
488	Comparison of Ultraviolet B Light-Emitting Diodes with Single or Triple Quantum Wells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2021</b> , 218, 2100100	1.6	2
487	Wedged Nd:YVO crystal for wavelength tuning of monolithic passively Q-switched picosecond microchip lasers. <i>Optics Express</i> , <b>2021</b> , 29, 19790-19795	3.3	2
486	High-Temperature Annealing and Patterned AlN/Sapphire Interfaces. <i>Physica Status Solidi (B): Basic Research</i> , <b>2021</b> , 258, 2100187	1.3	4
485	Skin tolerant inactivation of multiresistant pathogens using far-UVC LEDs. <i>Scientific Reports</i> , <b>2021</b> , 11, 14647	4.9	9
484	Direct observation of resonant tunneling in heterostructure with a single quantum well. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 043503	3.4	
483	A carbon-doping related luminescence band in GaN revealed by below bandgap excitation. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 055703	2.5	3
482	Reliability of UVC LEDs fabricated on AlN/sapphire templates with different threading dislocation densities. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 241104	3.4	15
481	The Impact of AlN Templates on Strain Relaxation Mechanisms during the MOVPE Growth of UVB-LED Structures. <i>Crystal Research and Technology</i> , <b>2020</b> , 55, 1900215	1.3	2
480	Overcoming the excessive compressive strain in AlGaN epitaxy by introducing high Si-doping in AlN templates. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, 070904	1.4	8
479	Enhanced Wall Plug Efficiency of AlGaN-Based Deep-UV LEDs Using Mo/Al as p-Contact. <i>IEEE Photonics Technology Letters</i> , <b>2020</b> , 1-1	2.2	4

#### (2020-2020)

478	Temperature-Dependent Charge Carrier Diffusion in [0001] Direction of GaN Determined by Luminescence Evaluation of Buried InGaN Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 2000016	1.3	7
477	Impact of High-Temperature Annealing on Boron Containing AlN Layers Grown by Metal Organic Vapor Phase Epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2020</b> , 217, 2000251	1.6	
476	Optimization of the Epitaxial Growth of Undoped GaN Waveguides in GaN-Based Laser Diodes Evaluated by Photoluminescence. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 5138-5143	1.9	1
475	Bulk photovoltaic effect in carbon-doped gallium nitride revealed by anomalous surface photovoltage spectroscopy. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	6
474	Status and Prospects of AlN Templates on Sapphire for Ultraviolet Light-Emitting Diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2020</b> , 217, 1901022	1.6	18
473	Structural and luminescence imaging and characterisation of semiconductors in the scanning electron microscope. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 054001	1.8	3
472	Designing sapphire surface patterns to promote AlGaN overgrowth in hydride vapor phase epitaxy. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 035028	1.8	1
471	Structural and electrical properties of Pd/p-GaN contacts for GaN-based laser diodes. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2020</b> , 38, 032211	1.3	1
470	Continuous-wave operation of DFB laser diodes based on GaN using 10\$^{rm th}\$-order laterally coupled surface gratings. <i>Optics Letters</i> , <b>2020</b> , 45, 935-938	3	7
469	Improved performance of UVC-LEDs by combination of high-temperature annealing and epitaxially laterally overgrown AlN/sapphire. <i>Photonics Research</i> , <b>2020</b> , 8, 589	6	26
469 468		1.5	26
	laterally overgrown AlN/sapphire. <i>Photonics Research</i> , <b>2020</b> , 8, 589		
468	laterally overgrown AlN/sapphire. <i>Photonics Research</i> , <b>2020</b> , 8, 589  High-temperature annealing of AlN films grown on 4HBiC. <i>AIP Advances</i> , <b>2020</b> , 10, 125303	1.5	3
468 467	laterally overgrown AlN/sapphire. <i>Photonics Research</i> , <b>2020</b> , 8, 589  High-temperature annealing of AlN films grown on 4HBiC. <i>AIP Advances</i> , <b>2020</b> , 10, 125303  Group III-Nitride-Based UV Laser Diodes. <i>Springer Series in Solid-state Sciences</i> , <b>2020</b> , 505-548  Carbon doping of GaN: Proof of the formation of electrically active tri-carbon defects. <i>Journal of</i>	0.4	3
468 467 466	laterally overgrown AlN/sapphire. <i>Photonics Research</i> , <b>2020</b> , 8, 589  High-temperature annealing of AlN films grown on 4HBiC. <i>AIP Advances</i> , <b>2020</b> , 10, 125303  Group III-Nitride-Based UV Laser Diodes. <i>Springer Series in Solid-state Sciences</i> , <b>2020</b> , 505-548  Carbon doping of GaN: Proof of the formation of electrically active tri-carbon defects. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 205701  Growth and Properties of Intentionally Carbon-Doped GaN Layers. <i>Crystal Research and Technology</i> ,	1.5 0.4 2.5	3 1 6
468 467 466 465	laterally overgrown AlN/sapphire. <i>Photonics Research</i> , <b>2020</b> , 8, 589  High-temperature annealing of AlN films grown on 4HBiC. <i>AIP Advances</i> , <b>2020</b> , 10, 125303  Group III-Nitride-Based UV Laser Diodes. <i>Springer Series in Solid-state Sciences</i> , <b>2020</b> , 505-548  Carbon doping of GaN: Proof of the formation of electrically active tri-carbon defects. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 205701  Growth and Properties of Intentionally Carbon-Doped GaN Layers. <i>Crystal Research and Technology</i> , <b>2020</b> , 55, 1900129  AlN overgrowth of nano-pillar-patterned sapphire with different offcut angle by metalorganic	1.5 0.4 2.5	3 1 6
468 467 466 465 464	High-temperature annealing of AlN films grown on 4HBiC. <i>AIP Advances</i> , 2020, 10, 125303  Group III-Nitride-Based UV Laser Diodes. <i>Springer Series in Solid-state Sciences</i> , 2020, 505-548  Carbon doping of GaN: Proof of the formation of electrically active tri-carbon defects. <i>Journal of Applied Physics</i> , 2020, 127, 205701  Growth and Properties of Intentionally Carbon-Doped GaN Layers. <i>Crystal Research and Technology</i> , 2020, 55, 1900129  AlN overgrowth of nano-pillar-patterned sapphire with different offcut angle by metalorganic vapor phase epitaxy. <i>Journal of Crystal Growth</i> , 2020, 531, 125343  Improving AlN Crystal Quality and Strain Management on Nanopatterned Sapphire Substrates by High-Temperature Annealing for UVC Light-Emitting Diodes. <i>Physica Status Solidi (A) Applications</i>	1.5 0.4 2.5 1.3	3 1 6 14

460	Advances in electron channelling contrast imaging and electron backscatter diffraction for imaging and analysis of structural defects in the scanning electron microscope. <i>IOP Conference Series:</i> Materials Science and Engineering, 2020, 891, 012023	0.4	
459	Improved Efficiency of Ultraviolet B Light-Emitting Diodes with Optimized p-Side. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2020</b> , 217, 2000406	1.6	2
458	Extra half-plane shortening of dislocations as an origin of tensile strain in Si-doped (Al)GaN. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 085701	2.5	6
457	Degradation of AlGaN-based metal-semiconductor-metal photodetectors. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, SCCC21	1.4	6
456	Time-resolved photoluminescence from n-doped GaN/Al0.18Ga0.82N short-period superlattices probes carrier kinetics and long-term structural stability. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 185705	2.5	5
455	Broadband Semiconductor Light Sources Operating at 1060 nm Based on InAs:Sb/GaAs Submonolayer Quantum Dots. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2019</b> , 25, 1-10	3.8	3
454	High power UVB light emitting diodes with optimized n-AlGaN contact layers. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, SCCC02	1.4	10
453	Impact of intermediate high temperature annealing on the properties of AlN/sapphire templates grown by metalorganic vapor phase epitaxy. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, SC1002	1.4	23
452	Degradation of (In)AlGaN-Based UVB LEDs and Migration of Hydrogen. <i>IEEE Photonics Technology Letters</i> , <b>2019</b> , 31, 529-532	2.2	29
451	AlN and AlN/Al2O3 seed layers from atomic layer deposition for epitaxial growth of AlN on sapphire. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2019</b> , 37, 020914	2.9	1
450	Stabilization of sputtered AlN/sapphire templates during high temperature annealing. <i>Journal of Crystal Growth</i> , <b>2019</b> , 512, 142-146	1.6	23
449	High power broad-area lasers with buried implantation for current confinement. <i>Semiconductor Science and Technology</i> , <b>2019</b> , 34, 105005	1.8	1
448	Influence of substrate off-cut angle on the performance of 310 nm light emitting diodes. <i>Journal of Crystal Growth</i> , <b>2019</b> , 526, 125241	1.6	7
447	Determination of Sapphire Off-Cut and Its Influence on the Morphology and Local Defect Distribution in Epitaxially Laterally Overgrown AlN for Optically Pumped UVC Lasers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1900682	1.6	7
446	Nitride Semiconductors <b>2019</b> , 109-147		1
445	Current spreading suppression by O- and Si-implantation in high power broad area diode lasers <b>2019</b> ,		2
444	MOVPE-grown AlGaN-based tunnel heterojunctions enabling fully transparent UVC LEDs. <i>Photonics Research</i> , <b>2019</b> , 7, B7	6	34
443	Current-induced degradation and lifetime prediction of 310 nm ultraviolet light-emitting diodes. <i>Photonics Research</i> , <b>2019</b> , 7, B36	6	27

## (2018-2019)

442	Scanning electron microscopy as a flexible technique for investigating the properties of UV-emitting nitride semiconductor thin films. <i>Photonics Research</i> , <b>2019</b> , 7, B73	6	6	
441	Displacement Talbot lithography for nano-engineering of III-nitride materials. <i>Microsystems and Nanoengineering</i> , <b>2019</b> , 5, 52	7.7	19	
440	Influence of silicon doping on internal quantum efficiency and threshold of optically pumped deep UV AlGaN quantum well lasers. <i>Semiconductor Science and Technology</i> , <b>2019</b> , 34, 015005	1.8		
439	Influence of quartz on silicon incorporation in HVPE grown AlN. <i>Journal of Crystal Growth</i> , <b>2019</b> , 507, 295-298	1.6	3	
438	Crystal defect analysis in AlN layers grown by MOVPE on bulk AlN. <i>Journal of Crystal Growth</i> , <b>2019</b> , 505, 69-73	1.6	7	
437	Lifetime behavior of laser diodes with highly strained InGaAs QWs and emission wavelength between 1120 nm and 1180 nm. <i>Journal of Crystal Growth</i> , <b>2018</b> , 491, 31-35	1.6	4	
436	Optical investigations of europium ion implanted in nitride-based diode structures. <i>Surface and Coatings Technology</i> , <b>2018</b> , 355, 40-44	4.4	8	
435	AlGaN-based deep UV LEDs grown on sputtered and high temperature annealed AlN/sapphire. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 041110	3.4	136	
434	Influence of template properties and quantum well number on stimulated emission from Al0.7Ga0.3N/Al0.8Ga0.2N quantum wells. <i>Semiconductor Science and Technology</i> , <b>2018</b> , 33, 035015	1.8	3	
433	Crystal damage analysis of implanted AlxGa1-xN (0.农力) by ion beam techniques. <i>Surface and Coatings Technology</i> , <b>2018</b> , 355, 55-60	4.4	8	
432	Si impurity concentration in nominally undoped Al0.7Ga0.3N grown in a planetary MOVPE reactor. Journal of Crystal Growth, <b>2018</b> , 483, 297-300	1.6	3	
431	Impact of open-core threading dislocations on the performance of AlGaN metal-semiconductor-metal photodetectors. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 161551	2.5	12	
430	Ultrafast carrier dynamics in a GaN/Al0.18Ga0.82N superlattice. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	3	
429	Advanced in-situ control for III-nitride RF power device epitaxy. <i>Semiconductor Science and Technology</i> , <b>2018</b> , 33, 045014	1.8	1	
428	Degradation effects of the active region in UV-C light-emitting diodes. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 104502	2.5	35	
427	GaN-Based Vertical n-Channel MISFETs on Free Standing Ammonothermal GaN Substrates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1700422	1.6	3	
426	Effect of the GaN:Mg Contact Layer on the Light-Output and Current-Voltage Characteristic of UVB LEDs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1700643	1.6	13	
425	Reduction of absorption losses in MOVPE-grown AlGaAs Bragg mirrors. <i>Optics Letters</i> , <b>2018</b> , 43, 3522-3	35325	2	

424	Efficient iron doping of HVPE GaN. Journal of Crystal Growth, 2018, 500, 111-116	1.6	7
423	Eu-Doped AlGaN/GaN Superlattice-Based Diode Structure for Red Lighting: Excitation Mechanisms and Active Sites. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 3845-3858	5.6	10
422	Influence of waveguide strain and surface morphology on AlGaN-based deep UV laser characteristics. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 415101	3	11
421	Degradation behavior of AlGaN-based 233 nm deep-ultraviolet light emitting diodes. Semiconductor Science and Technology, <b>2018</b> , 33, 095017	1.8	13
420	High-power sampled-grating-based master oscillator power amplifier system with 23.5 nm wavelength tuning around 970 nm. <i>Applied Optics</i> , <b>2018</b> , 57, 8680-8685	1.7	2
419	Analysis of strain and composition distributions in laterally strain-modulated InGaAs nanostructures after overgrowth with GaAs or InGaP <b>2018</b> , 135-138		
418	AFM characterization of AlGaAs/AlAs distributed Bragg reflectors <b>2018</b> , 543-546		
417	TEM investigations of oxidation phenomena in (Al,Ga)As/AlAs <b>2018</b> , 489-492		
416	Tri-carbon defects in carbon doped GaN. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 262101	3.4	12
415	Bow Reduction of AlInGaN-Based Deep UV LED Wafers Using Focused Laser Patterning. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 1792-1794	2.2	1
414	Localization of current-induced degradation effects in (InAlGa)N-based UV-B LEDs. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 084504	2.5	16
413	Silicon induced defect reduction in AlN template layers for epitaxial lateral overgrowth. <i>Journal of Crystal Growth</i> , <b>2017</b> , 462, 18-23	1.6	8
412	Metamorphic Al 0.5 Ga 0.5 N:Si on AlN/sapphire for the growth of UVB LEDs. <i>Journal of Crystal Growth</i> , <b>2017</b> , 464, 185-189	1.6	33
411	Influence of AlN buffer layer on growth of AlGaN by HVPE. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1600696	1.3	7
410	AlGaN-based metal-semiconductor-metal photodetectors with high external quantum efficiency at low operating voltage <b>2017</b> ,		3
409	The effects of magnesium doping on the modal loss in AlGaN-based deep UV lasers. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 081103	3.4	25
408	High-power broad-area buried-mesa lasers. Semiconductor Science and Technology, 2017, 32, 065009	1.8	4
407	Design considerations for AlGaN-based UV LEDs emitting near 235 nm with uniform emission pattern. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 045019	1.8	4

406	Triangular-shaped sapphire patterning for HVPE grown AlGaN layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2017</b> , 214, 1600751	1.6	2
405	High-quality AlN grown on a thermally decomposed sapphire surface. <i>Journal of Crystal Growth</i> , <b>2017</b> , 479, 16-21	1.6	19
404	Effect of Cl2 plasma treatment and annealing on vanadium based metal contacts to Si-doped Al0.75Ga0.25N. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 125701	2.5	8
403	Comparison of symmetric and asymmetric double quantum well extended-cavity diode lasers for broadband passive mode-locking at 780 nm. <i>Applied Optics</i> , <b>2017</b> , 56, 5566-5572	1.7	2
402	Effect of Electron Blocking Layer Doping and Composition on the Performance of 310 nm Light Emitting Diodes. <i>Materials</i> , <b>2017</b> , 10,	3.5	15
401	MOVPE growth of violet GaN LEDs on EGa2O3 substrates. <i>Journal of Crystal Growth</i> , <b>2017</b> , 478, 212-215	1.6	13
400	Avoidance of instable photoluminescence intensity from AlGaN bulk layers. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1600672	1.3	2
399	Chip design for thin-film deep ultraviolet LEDs fabricated by laser lift-off of the sapphire substrate. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 12LT01	1.8	11
398	On the EQE-bias characteristics of bottom-illuminated AlGaN-based metal-semiconductor-metal photodetectors with asymmetric electrode geometry. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 174501	2.5	5
397	Generation of optical picosecond pulses with monolithic colliding-pulse mode-locked lasers containing a chirped double-quantum-well active region. <i>IET Optoelectronics</i> , <b>2017</b> , 11, 79-85	1.5	1
396	Realisation of a widely tuneable sampled grating DBR laser emitting around 970 hm. <i>Electronics Letters</i> , <b>2017</b> , 53, 744-746	1.1	2
395	Gas Sensing of Nitrogen Oxide Utilizing Spectrally Pure Deep UV LEDs. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2017</b> , 23, 29-36	3.8	32
394	Highly Reflective p-Contacts Made of Pd-Al on Deep Ultraviolet Light-Emitting Diodes. <i>IEEE Photonics Technology Letters</i> , <b>2017</b> , 29, 2222-2225	2.2	8
393	In-situ photoluminescence measurements during MOVPE of GaN and InGaN in a CCS reactor. <i>TM Technisches Messen</i> , <b>2017</b> , 84, 747-752	0.7	1
392	Orientation dependent indium incorporation in MOVPE grown InGaAs/GaAs quantum wells <b>2017</b> , 397-4	00	
391	Structural and optical properties of (112 2) InGaN quantum wells compared to (0001) and (112 0). <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 085007	1.8	4
390	Kinetics of AlGaN metal®rganic vapor phase epitaxy for deep-UV applications. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 05FD07	1.4	4
389	MOVPE growth of laser structures for high-power applications at different ambient temperatures. Journal of Crystal Growth, <b>2016</b> , 452, 258-262	1.6	_

388	Impact of acceptor concentration on the resistivity of Ni/Au p-contacts on semipolar (20🛭 1) GaN:Mg. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 169-173	1.3	8
387	On optical polarization and charge carrier statistics of nonpolar InGaN quantum wells. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 145-157	1.3	6
386	Study of damage formation and annealing of implanted III-nitride semiconductors for optoelectronic devices. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 379, 251-254	1.2	16
385	Defect distribution and compositional inhomogeneities in Al0.5Ga0.5N layers grown on stepped surfaces. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 025007	1.8	4
384	Mechanisms of Implantation Damage Formation in AlxGa1⊠N Compounds. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 7277-7283	3.8	30
383	Development of semipolar (11-22) LEDs on GaN templates <b>2016</b> ,		7
382	Process control of MOCVD growth for LEDs by in-situ photoluminescence <b>2016</b> ,		1
381	Influence of the LED heterostructure on the degradation behavior of (InAlGa)N-based UV-B LEDs <b>2016</b> ,		1
380	CBr4-based in-situ etching of GaAs, assisted with TMAl and TMGa. <i>Journal of Crystal Growth</i> , <b>2016</b> , 434, 116-122	1.6	2
379	Femtosecond Mode-Locked Semiconductor Disk Lasers. Springer Series in Optical Sciences, 2016, 47-74	0.5	
378	Vapor Phase Epitaxy of AlGaN Base Layers on Sapphire Substrates for Nitride-Based UV-Light Emitters. <i>Springer Series in Materials Science</i> , <b>2016</b> , 47-73	0.9	1
377	Solar- and Visible-Blind AlGaN Photodetectors. Springer Series in Materials Science, <b>2016</b> , 219-266	0.9	4
376	Astigmatism-free high-brightness 1060 nm edge-emitting lasers with narrow circular beam profile. <i>Optics Express</i> , <b>2016</b> , 24, 30514-30522	3.3	7
375	Correlation of sapphire off-cut and reduction of defect density in MOVPE grown AlN. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 809-813	1.3	29
374	Quantification of matrix and impurity elements in AlxGa1NN compounds by secondary ion mass spectrometry. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2016</b> , 34, 03H128	1.3	3
373	Strong amplitude-phase coupling in submonolayer quantum dots. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 201102	3.4	13
372	Exciton localization in semipolar ( 112[2) InGaN multiple quantum wells. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 055705	2.5	2
371	Temperature and doping dependent changes in surface recombination during UV illumination of (Al)GaN bulk layers. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 095307	2.5	5

## (2015-2016)

370	Near-field microscopy of waveguide architectures of InGaN/GaN diode lasers. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 115015	1.8	О
369	Low absorption loss p-AlGaN superlattice cladding layer for current-injection deep ultraviolet laser diodes. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 151108	3.4	39
368	Determination of polarization fields in group III-nitride heterostructures by capacitance-voltage-measurements. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 095713	2.5	8
367	Role of substrate quality on the performance of semipolar (11212) InGaN light-emitting diodes. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 135701	2.5	7
366	In-situ control of large area (11½2)-GaN growth on patterned r-plane sapphire. <i>Journal of Crystal Growth</i> , <b>2016</b> , 452, 253-257	1.6	1
365	Fe-doping in hydride vapor-phase epitaxy for semi-insulating gallium nitride. <i>Journal of Crystal Growth</i> , <b>2016</b> , 456, 97-100	1.6	20
364	AlN growth on nano-patterned sapphire: A route for cost efficient pseudo substrates for deep UV LEDs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 3178-3185	1.6	31
363	Efficient carrier-injection and electron-confinement in UV-B light-emitting diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 210-214	1.6	18
362	Current spreading in UV-C LEDs emitting at 235 nm <b>2015</b> ,		1
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361 360	High-power UV-B LEDs with long lifetime 2015,  . IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 722-727	3.8	38
		3.8	
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360 359 358	. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 722-727  UV-C Lasing From AlGaN Multiple Quantum Wells on Different Types of AlN/Sapphire Templates. IEEE Photonics Technology Letters, 2015, 27, 1969-1972  Growth of laser diode structures with emission wavelength beyond 1100 nm for yellow green emission by frequency conversion. Journal of Crystal Growth, 2015, 414, 205-209	2.2	11 18 7
360 359 358 357	. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 722-727  UV-C Lasing From AlGaN Multiple Quantum Wells on Different Types of AlN/Sapphire Templates. IEEE Photonics Technology Letters, 2015, 27, 1969-1972  Growth of laser diode structures with emission wavelength beyond 1100 nm for yellow green emission by frequency conversion. Journal of Crystal Growth, 2015, 414, 205-209  Combined Mg/Zn p-type doping for AlGaInP laser diodes. Journal of Crystal Growth, 2015, 414, 215-218  Enhanced quantum efficiency of AlGaN photodetectors by patterned growth. Physica Status Solidi	<ul><li>2.2</li><li>1.6</li><li>1.6</li></ul>	11 18 7 3
360 359 358 357 356	. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 722-727  UV-C Lasing From AlGaN Multiple Quantum Wells on Different Types of AlN/Sapphire Templates. IEEE Photonics Technology Letters, 2015, 27, 1969-1972  Growth of laser diode structures with emission wavelength beyond 1100 nm for yellowigreen emission by frequency conversion. Journal of Crystal Growth, 2015, 414, 205-209  Combined Mg/Zn p-type doping for AlGaInP laser diodes. Journal of Crystal Growth, 2015, 414, 215-218  Enhanced quantum efficiency of AlGaN photodetectors by patterned growth. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1005-1010  V-pit to truncated pyramid transition in AlGaN-based heterostructures. Semiconductor Science and	2.2 1.6 1.6	11 18 7 3

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349	Spatial inhomogeneities in AlxGa1NN quantum wells induced by the surface morphology of AlN/sapphire templates. <i>Semiconductor Science and Technology</i> , <b>2015</b> , 30, 114008	1.8	11
348	Semipolar (112) InGaN light-emitting diodes grown on chemically the chanically polished GaN templates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2015</b> , 212, 2196-2200	1.6	15
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346	Effect of carrier gas in hydride vapor phase epitaxy on optical and structural properties of GaN. <i>Physica Status Solidi (B): Basic Research</i> , <b>2015</b> , 252, 1180-1188	1.3	3
345	In-situ observation of InGaN quantum well decomposition during growth of laser diodes. <i>Crystal Research and Technology</i> , <b>2015</b> , 50, 499-503	1.3	7
344	Solar-blind AlGaN MSM photodetectors with 24% external quantum efficiency at 0 V. <i>Electronics Letters</i> , <b>2015</b> , 51, 1598-1600	1.1	24
343	Analysis of HVPE grown AlGaN layers on honeycomb patterned sapphire. <i>Journal of Crystal Growth</i> , <b>2015</b> , 414, 32-37	1.6	5
342	AlAsP-based strain-balancing in MOVPE-grown distributed Bragg reflectors. <i>Journal of Crystal Growth</i> , <b>2015</b> , 414, 10-14	1.6	2
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339	Challenges for AlGaN Based UV Laser Diodes <b>2015</b> ,		3
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330	Performance Characteristics of UV-C AlGaN-Based Lasers Grown on Sapphire and Bulk AlN Substrates. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 342-345	2.2	92
329	Analysis of crystal orientation in AlN layers grown on m-plane sapphire. <i>Journal of Crystal Growth</i> , <b>2014</b> , 400, 54-60	1.6	14
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325 324		3.4	29 83
	vertically extended lasing area. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 151105  Efficient charge carrier injection into sub-250 nm AlGaN multiple quantum well light emitting		
324	vertically extended lasing area. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 151105  Efficient charge carrier injection into sub-250 nm AlGaN multiple quantum well light emitting diodes. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 051113  Polarization of photoluminescence emission from semi-polar (1122) AlGaN layers. <i>Applied Physics</i>	3.4	
3 <sup>2</sup> 4	vertically extended lasing area. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 151105  Efficient charge carrier injection into sub-250 nm AlGaN multiple quantum well light emitting diodes. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 051113  Polarization of photoluminescence emission from semi-polar (11🛛2) AlGaN layers. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 051906  Anisotropic Responsivity of AlGaN Metal Bemiconductor Metal Photodetectors on Epitaxial	3.4	83
324 323 322	vertically extended lasing area. Applied Physics Letters, 2014, 105, 151105  Efficient charge carrier injection into sub-250 nm AlGaN multiple quantum well light emitting diodes. Applied Physics Letters, 2014, 105, 051113  Polarization of photoluminescence emission from semi-polar (1122) AlGaN layers. Applied Physics Letters, 2014, 104, 051906  Anisotropic Responsivity of AlGaN MetalBemiconductorMetal Photodetectors on Epitaxial Laterally Overgrown AlN/Sapphire Templates. Journal of Electronic Materials, 2014, 43, 833-837  Linear thermal expansion coefficient determination using in situ curvature and temperature dependent X-ray diffraction measurements applied to metalorganic vapor phase epitaxy-grown	3.4 3.4	8 <sub>3</sub> 7 5
324 323 322 321	Vertically extended lasing area. Applied Physics Letters, 2014, 105, 151105  Efficient charge carrier injection into sub-250 nm AlGaN multiple quantum well light emitting diodes. Applied Physics Letters, 2014, 105, 051113  Polarization of photoluminescence emission from semi-polar (1122) AlGaN layers. Applied Physics Letters, 2014, 104, 051906  Anisotropic Responsivity of AlGaN MetalBemiconductor Metal Photodetectors on Epitaxial Laterally Overgrown AlN/Sapphire Templates. Journal of Electronic Materials, 2014, 43, 833-837  Linear thermal expansion coefficient determination using in situ curvature and temperature dependent X-ray diffraction measurements applied to metalorganic vapor phase epitaxy-grown AlGaAs. Journal of Applied Physics, 2013, 114, 033501  Characterization of semiconductor devices and wafer materials via sub-nanosecond time-correlated	3.4 3.4 1.9	<ul><li>83</li><li>7</li><li>5</li><li>3</li></ul>
324 323 322 321 320	Efficient charge carrier injection into sub-250 nm AlGaN multiple quantum well light emitting diodes. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 051113  Polarization of photoluminescence emission from semi-polar (1122) AlGaN layers. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 051906  Anisotropic Responsivity of AlGaN MetalBemiconductorMetal Photodetectors on Epitaxial Laterally Overgrown AlN/Sapphire Templates. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 833-837  Linear thermal expansion coefficient determination using in situ curvature and temperature dependent X-ray diffraction measurements applied to metalorganic vapor phase epitaxy-grown AlGaAs. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 033501  Characterization of semiconductor devices and wafer materials via sub-nanosecond time-correlated single-photon counting. <i>Journal of Applied Spectroscopy</i> , <b>2013</b> , 80, 449-457	3.4 3.4 1.9 2.5	<ul><li>83</li><li>7</li><li>5</li><li>3</li><li>2</li></ul>

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271 270		12.5 3.4	281
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270 269 268	On the optical polarization properties of semipolar InGaN quantum wells. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 051103  Polarization dependent study of gain anisotropy in semipolar InGaN lasers. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 171105  Reliability issues of GaN based high voltage power devices. <i>Microelectronics Reliability</i> , <b>2011</b> , 51, 1710-1710-1710-1710-1710-1710-1710-1710	3·4 3·4	<ul><li>25</li><li>7</li><li>41</li></ul>
270 269 268 267	Water Research, 2011, 45, 1481-9  On the optical polarization properties of semipolar InGaN quantum wells. Applied Physics Letters, 2011, 99, 051103  Polarization dependent study of gain anisotropy in semipolar InGaN lasers. Applied Physics Letters, 2011, 99, 171105  Reliability issues of GaN based high voltage power devices. Microelectronics Reliability, 2011, 51, 1710-1910 Optimisation of 660 nm high-power tapered diode lasers. IET Optoelectronics, 2011, 5, 121-127  High-power edge-emitting laser diode with narrow vertical beam divergence. Electronics Letters,	3·4 3·4 17/16	<ul><li>25</li><li>7</li><li>41</li><li>1</li></ul>
<ul><li>270</li><li>269</li><li>268</li><li>267</li><li>266</li></ul>	On the optical polarization properties of semipolar InGaN quantum wells. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 051103  Polarization dependent study of gain anisotropy in semipolar InGaN lasers. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 171105  Reliability issues of GaN based high voltage power devices. <i>Microelectronics Reliability</i> , <b>2011</b> , 51, 1710-70  Optimisation of 660 nm high-power tapered diode lasers. <i>IET Optoelectronics</i> , <b>2011</b> , 5, 121-127  High-power edge-emitting laser diode with narrow vertical beam divergence. <i>Electronics Letters</i> , <b>2011</b> , 47, 1339	3.4 3.4 17/16 1.5	25 7 41 1

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238	Optical and Structural Properties of In0.08GaN/In0.02GaN Multiple Quantum Wells Grown at Different Temperatures and with Different Indium Supplies. <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 677-683	1.9	5
237	Hydride vapor phase epitaxy of GaN boules using high growth rates. <i>Journal of Crystal Growth</i> , <b>2010</b> , 312, 2537-2541	1.6	20
236	Orientation control of GaN {112½} and {101⅓} grown on (101⅙) sapphire by metal-organic vapor phase epitaxy. <i>Journal of Crystal Growth</i> , <b>2010</b> , 312, 2171-2174	1.6	37
235	Well width study of InGaN multiple quantum wells for bluegreen emitter. <i>Journal of Crystal Growth</i> , <b>2010</b> , 312, 3428-3433	1.6	10
234	Facet formation for laser diodes on nonpolar and semipolar GaN. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2010</b> , 207, 1361-1364	1.6	16
233	(In)AlGaN deep ultraviolet light emitting diodes with optimized quantum well width. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2010</b> , 207, 2198-2200	1.6	19
232	GaN-based ultraviolet light-emitting diodes with multifinger contacts. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2010</b> , 207, 2585-2588	1.6	11
231	Boule-like growth of GaN by HVPE. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2010</b> , 7, 28-31		7
230	Effects of low charge carrier wave function overlap on internal quantum efficiency in GaInN quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2010</b> , 7, 1872-1874		
229	Carrier injection in InAlGaN single and multi-quantum-well ultraviolet light emitting diodes. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2010</b> , 7, 2196-2198		7
228	InGaAs-AlGaAs Disk Laser Generating sub-220-fs Pulses and Tapered Diode Amplifier with Ultrafast Pulse Picking <b>2009</b> ,		1
227	Compositional dependence of the bowing parameter for highly strained InGaAs/GaAs quantum wells. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	18

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224	Experimental method for scanning the surface depletion region in nitride based heterostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, S691-S694		2
223	HVPE growth of AlxGa1⊠N alloy layers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, S309-S312		6
222	Emission characteristics of InGaN multi quantum well light emitting diodes with differently strained InAlGaN barriers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, S889-S892		8
221	Strain engineering of AlGaN-GaN HFETs grown on 3 inch 4H-SiC. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, S1065-S1068		10
220	MOVPE growth of InGaAs/GaAsP-MQWs for high-power laser diodes studied by reflectance anisotropy spectroscopy. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 1065-1069	1.6	9
219	Epitaxial lateral overgrowth on (21ជ1ជ0) a-plane GaN with [01ជ11]-oriented stripes. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 2895-2898	1.6	7
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217	MOVPE growth for UV-LEDs 2009,  Twin-Contact 645-nm Tapered Laser With 500-mW Output Power. IEEE Photonics Technology Letters, 2009, 21, 236-238	2.2	7
ĺ	Twin-Contact 645-nm Tapered Laser With 500-mW Output Power. <i>IEEE Photonics Technology</i>		7
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216	Twin-Contact 645-nm Tapered Laser With 500-mW Output Power. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 236-238  Conductively Cooled 637-nm InGaP Broad-Area Lasers and Laser Bars With Conversion Efficiencies Up to 37% and a Small Vertical Far Field of 30\$^{circ}\$. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 185-6-W Broad-Area Lasers With a Vertical Far-Field Angle of 31\$^{circ}\$ Emitting at 670 nm. <i>IEEE</i>	32 <i>4</i> -782	7 26 <sup>6</sup>
216 215 214	Twin-Contact 645-nm Tapered Laser With 500-mW Output Power. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 236-238  Conductively Cooled 637-nm InGaP Broad-Area Lasers and Laser Bars With Conversion Efficiencies Up to 37% and a Small Vertical Far Field of 30\$^{circ}\$. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 18  5.6-W Broad-Area Lasers With a Vertical Far-Field Angle of 31\$^{circ}\$ Emitting at 670 nm. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 575-577	324-182 2.2	7 26 <sup>6</sup>
216 215 214 213	Twin-Contact 645-nm Tapered Laser With 500-mW Output Power. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 236-238  Conductively Cooled 637-nm InGaP Broad-Area Lasers and Laser Bars With Conversion Efficiencies Up to 37% and a Small Vertical Far Field of 30\$^{circ}\$. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 18  5.6-W Broad-Area Lasers With a Vertical Far-Field Angle of 31\$^{circ}\$ Emitting at 670 nm. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 575-577  290-fs pulses from a semiconductor disk laser. <i>Optics Express</i> , 2008, 16, 5770-5  1 W reliable operation of broad area lasers and 8 W reliable operation of 5 mm wide laser bars at	324-182 2.2	7 26 <sup>6</sup> 14
216 215 214 213	Twin-Contact 645-nm Tapered Laser With 500-mW Output Power. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 236-238  Conductively Cooled 637-nm InGaP Broad-Area Lasers and Laser Bars With Conversion Efficiencies Up to 37% and a Small Vertical Far Field of 30\$^{circ}\$. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 18  5.6-W Broad-Area Lasers With a Vertical Far-Field Angle of 31\$^{circ}\$ Emitting at 670 nm. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 575-577  290-fs pulses from a semiconductor disk laser. <i>Optics Express</i> , 2008, 16, 5770-5  1 W reliable operation of broad area lasers and 8 W reliable operation of 5 mm wide laser bars at 650 nm 2008,	324-182 2.2	7 26 <sup>6</sup> 14 33

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205	Study of in-depth strain variation in ion-irradiated GaN. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2008</b> , 19, 68-72	2.1	1
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199	TEM study of c-plane GaN layers grown on £iAlO2(100). <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 3712-3715		8
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197	Freestanding 2-in GaN layers using lateral overgrowth with HVPE. <i>Journal of Crystal Growth</i> , <b>2008</b> , 310, 911-915	1.6	20
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188	Defects in m-plane GaN layers grown on (100) LiAlO2 <b>2008</b> , 73-74		
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176	3-W Broad Area Lasers and 12-W Bars With Conversion Efficiencies up to 40% at 650 nm. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2007</b> , 13, 1188-1193	3.8	14
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174	High energy irradiation effects on AlGaN/GaN HFET devices. <i>Semiconductor Science and Technology</i> , <b>2007</b> , 22, 1220-1224	1.8	2
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163	High-efficient 650 nm laser bars with an output power of about 10 W and a wall-plug efficiency of 30% <b>2006</b> , 6133, 78		5
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160	High and low energy proton irradiation effects on AlGaN/GaN HFETs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 2338-2341		5
159	Bowing of thick GaN layers grown by HVPE using ELOG. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 1466-1470		10
158	Characterization of free standing GaN grown by HVPE on a LiAlO2 substrate. <i>Physica Status Solidi</i> (A) Applications and Materials Science, <b>2006</b> , 203, 1663-1666	1.6	8
157	N-type doping of HVPE-grown GaN using dichlorosilane. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 1658-1662	1.6	11
156	Avoidance of surface-related defects in MOVPE-grown InGaP layers. <i>Journal of Crystal Growth</i> , <b>2006</b> , 287, 633-636	1.6	
155	In situ determination and control of AlGaInP composition during MOVPE growth. <i>Journal of Crystal Growth</i> , <b>2006</b> , 287, 637-641	1.6	3

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153	Passively mode-locked Yb:KLu(WO4)2 oscillators. <i>Optics Express</i> , <b>2005</b> , 13, 3465-70	3.3	62
152	Mode-locked laser operation of epitaxially grown Yb:Klu(WO4)2 composites. <i>Optics Letters</i> , <b>2005</b> , 30, 2484-6	3	12
151	Optimised two layer overgrowth of a lateral strain-modulated nanostructure. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 401, 226-230	5.7	
150	High-power 808 nm lasers with a super-large optical cavity. <i>Semiconductor Science and Technology</i> , <b>2005</b> , 20, 621-624	1.8	54
149	High-performance laser diodes with emission wavelengths above 1100 nm and very small vertical divergence of the far field. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 1145-1147	2.2	4
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147	Application of reflectance anisotropy spectroscopy to laser diode growth in MOVPE. <i>Journal of Crystal Growth</i> , <b>2005</b> , 276, 29-36	1.6	11
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144	High-power high-efficiency 1150-nm quantum-well laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2005</b> , 11, 1217-1222	3.8	22
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134	Growth monitoring of GaAsSb:C/InP heterostructures with reflectance anisotropy spectroscopy. Journal of Crystal Growth, <b>2004</b> , 272, 111-117	1.6	7
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132	Defect study of MOVPE-grown InGaP layers on GaAs. <i>Journal of Crystal Growth</i> , <b>2004</b> , 272, 627-632	1.6	3
131	Investigation of breakdown and DC behavior in HBTs with (Al,Ga)As collector layer. <i>IEEE Electron Device Letters</i> , <b>2004</b> , 25, 672-674	4.4	
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127	Nonequilibrium carrier dynamics in heavily p-doped GaAs. <i>EPJ Applied Physics</i> , <b>2004</b> , 27, 181-184	1.1	8
126	High-efficiency AlGaInP/AlGaAs vertical-cavity surface-emitting lasers with 650 nm wavelength. <i>IEE Proceedings: Optoelectronics</i> , <b>2003</b> , 150, 110-114		7
125	In-situ determination of interface roughness in MOVPE-grown visible VCSELs by reflectance spectroscopy. <i>Journal of Crystal Growth</i> , <b>2003</b> , 248, 194-200	1.6	13
124	Automated emissivity corrected wafer-temperature measurement in Aixtrons planetary reactors. Journal of Crystal Growth, <b>2003</b> , 248, 235-239	1.6	13
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112	Minority-carrier kinetics in heavily doped GaAs:C studied by transient photoluminescence. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 5072-5078	2.5	10
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110	High-power highly strained InGaAs quantum-well lasers operating at 1.2 fb. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 887-889	2.2	23
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105	Influence of oxygen in AlGaAs-based laser structures with Al-Free active region on device properties. <i>Journal of Electronic Materials</i> , <b>2001</b> , 30, 1421-1424	1.9	11
104	Degradation properties of MOVPE-grown GaInP/GaAs HBTs under combined temperature and current stressing. <i>Microelectronics Reliability</i> , <b>2001</b> , 41, 1103-1108	1.2	2
103	Direct Growth of GaN on (0001) Sapphire by Low Pressure Hydride Vapour Phase Epitaxy. <i>Physica Status Solidi A</i> , <b>2001</b> , 188, 439-442		10
102	In-situ Determination of the Carrier Concentration of (001) GaAs by Reflectance Anisotropy Spectroscopy. <i>Physica Status Solidi A</i> , <b>2001</b> , 188, 1423-1429		17
101	(AlGa)As composition profile analysis of trenches overgrown with MOVPE. <i>Journal of Crystal Growth</i> , <b>2001</b> , 222, 465-470	1.6	4

100	Recognition and imitation of pantomimed motor acts after unilateral parietal and premotor lesions: a perspective on apraxia. <i>Neuropsychologia</i> , <b>2001</b> , 39, 200-16	3.2	182
99	High efficiency AlGaInP-based 650 nm vertical-cavity surface-emitting lasers. <i>Electronics Letters</i> , <b>2001</b> , 37, 1222	1.1	16
98	12 W continuous-wave diode lasers at 1120 nm with InGaAs quantum wells. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1965-1967	3.4	65
97	Evidence for strain-induced lateral carrier confinement in InGaAs quantum wells by low-temperature near-field spectroscopy. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1611-1613	3.4	7
96	High-power highly reliable Al-free 940-nm diode lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2001</b> , 7, 143-148	3.8	21
95	High-power 810-nm GaAsP-AlGaAs diode lasers with narrow beam divergence. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2001</b> , 7, 334-339	3.8	34
94	Investigation of strain-modulated InGaAs nanostructures by grazing-incidence x-ray diffraction and photoluminescence. <i>Journal Physics D: Applied Physics</i> , <b>2001</b> , 34, A183-A187	3	6
93	Al-free 950-nm BA diode lasers with high efficiency and reliability at 50°C ambient temperature <b>2000</b> , 3945, 301		3
92	Comparison of binary and ternary growth over trenches using MOVPE. <i>Journal of Crystal Growth</i> , <b>2000</b> , 213, 229-234	1.6	6
91	Carbon doping for the GaAs base layer of Heterojunction Bipolar Transistors in a production scale MOVPE reactor. <i>Journal of Crystal Growth</i> , <b>2000</b> , 221, 53-58	1.6	13
90	Effect of growth conditions and strain compensation on indium incorporation for diode lasers emitting above 1050nm. <i>Journal of Crystal Growth</i> , <b>2000</b> , 221, 496-502	1.6	20
89	Optimization of MOVPE growth for 650nm-emitting VCSELs. <i>Journal of Crystal Growth</i> , <b>2000</b> , 221, 663-6	6 <b>6.</b> %	15
88	Modeling and experimental verification of transport and deposition behavior during MOVPE of Ga1-xInxP in the Planetary Reactor. <i>Journal of Crystal Growth</i> , <b>2000</b> , 208, 85-92	1.6	19
87	Optimization of GaAsP/AlGaAs-based QW laser structures for high power 800 nm operation. Journal of Electronic Materials, <b>2000</b> , 29, 53-56	1.9	15
86	MOVPE growth of AlGaAs/GaInP diode lasers. <i>Journal of Electronic Materials</i> , <b>2000</b> , 29, 57-61	1.9	9
85	MOVPE growth of (Al, Ga)InP-based laser structures monitored by real-time reflectance anisotropy spectroscopy. <i>Journal of Electronic Materials</i> , <b>2000</b> , 29, 94-98	1.9	2
84	Effect of high-temperature annealing on GaInP/GaAs HBT structures grown by LP-MOVPE. <i>Journal of Electronic Materials</i> , <b>2000</b> , 29, 205-209	1.9	9
83	MOVPE growth of (Al,Ga)InP-based laser structures monitored by real-time reflectance anisotropy spectroscopy. <i>Journal of Electronic Materials</i> , <b>2000</b> , 29, 468-472	1.9	9

82	Epitaxy of High-Power Diode Laser Structures <b>2000</b> , 83-120		3	
81	Correlation of InGaP(001) surface structure during growth and bulk ordering. <i>Physical Review B</i> , <b>1999</b> , 60, 8185-8190	3.3	48	
80	Assessment of layer structures for GaInP/GaAs-heterojunction bipolar transistors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1999</b> , 66, 162-173	3.1	0	
79	Patterned growth of (AlGa)As using metalorganic vapor-phase epitaxy. <i>Journal of Crystal Growth</i> , <b>1999</b> , 206, 255-262	1.6	4	
78	Spectroscopic process sensors in MOVPE device production. <i>Applied Physics A: Materials Science and Processing</i> , <b>1999</b> , 68, 309-313	2.6	28	
77	High-power tensile-strained GaAsP-AlGaAs quantum-well lasers emitting between 715 and 790 nm. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>1999</b> , 5, 780-784	3.8	44	
76	Diode lasers with Al-free quantum wells embedded in LOC AlGaAs waveguides between 715 nm and 840 nm <b>1999</b> , 3628, 19		8	
75	Correlation Of INGAP(001) Surface Structure During Growth and CUPTb-Type Bulk Ordering. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 583, 217		1	
74	Overgrowth of trenches with (AlGa)As using metalorganic vapor-phase epitaxy (MOVPE). <i>Journal of Crystal Growth</i> , <b>1998</b> , 195, 485-489	1.6	4	
73	Ordering in GaxIn1\(\mathbb{A}\)AsyP1\(\mathbb{J}\) grown on GaAs by metalorganic vapour-phase epitaxy. <i>Journal of Crystal Growth</i> , <b>1998</b> , 195, 694-699	1.6	7	
72	Growth monitoring of GaInP/GaAs heterojunction bipolar transistors by reflectance anisotropy spectroscopy. <i>Journal of Crystal Growth</i> , <b>1998</b> , 195, 217-222	1.6	1	
71	Real-time monitoring of MOVPE device growth by reflectance anisotropy spectroscopy and related optical techniques. <i>Journal of Crystal Growth</i> , <b>1998</b> , 195, 151-162	1.6	46	
70	MOVPE growth of highly strained InGaAs/GaAs quantum wells. <i>Journal of Crystal Growth</i> , <b>1998</b> , 183, 511-518	1.6	46	
69	MOVPE growth of tunable DBR laser diode emitting at 1060 nm. <i>Journal of Crystal Growth</i> , <b>1998</b> , 195, 676-680	1.6	10	
68	In situ monitoring and control of InGaP growth on GaAs in MOVPE. <i>Journal of Crystal Growth</i> , <b>1998</b> , 195, 223-227	1.6	12	
67	Real-time growth monitoring of InGaAs/InP-HBT structures with reflectance anisotropy spectroscopy. <i>Thin Solid Films</i> , <b>1998</b> , 313-314, 609-613	2.2	2	
66	Photoluminescence on ordered GaxIn1NAsyP1N. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 1588-1594	2.5	4	
65	Analysis of Bragg reflectors by lateral photoluminescence spectroscopy. <i>Materials Science and Technology</i> , <b>1998</b> , 14, 1314-1316	1.5		

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63	Evaluation of strained InGaAs/GaAs quantum wells by atomic force microscopy. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 1134-1136	3.4	9
62	MOVPE growth of hetero-bipolar-transistors using CBr4 as carbon dopant source. <i>Journal of Crystal Growth</i> , <b>1997</b> , 170, 442-446	1.6	4
61	High-resolution X-ray diffraction investigation of crystal perfection and relaxation of GaAs/InGaAs/GaAs quantum wells depending on MOVPE growth conditions. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> ,		6
60	On-line growth monitoring of InP-based device structures by reflectance anisotropy spectroscopy. Journal of Electronic Materials, <b>1997</b> , 26, 1154-1158	1.9	1
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56	Assessment of compensation ratio in high-purity GaAs using photoluminescence. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1997</b> , 44, 228-232	3.1	4
55	Interdiffusion in InGaAs/GaAs and InGaAs/GaAsP quantum wells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1997</b> , 44, 20-23	3.1	4
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52	Influence of the growth temperature and substrate orientation on the layer properties of MOVPE-growth. <i>Journal of Crystal Growth</i> , <b>1997</b> , 170, 281-286	1.6	11
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39	Potential sources of degradation in InGaAs/GaAs laser diodes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1994</b> , 28, 310-313	3.1	
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35	Red Shift of Photoluminescence and Absorption in Dilute GaAsN Alloy Layers. <i>Japanese Journal of Applied Physics</i> , <b>1992</b> , 31, L853-L855	1.4	663
34	Carbon in III-V Compounds: A Theoretical Approach. <i>Japanese Journal of Applied Physics</i> , <b>1992</b> , 31, 2483-	- <u>3</u> .4β7	34
33	Localized deposition of In and Ga in MOMBRE. Journal of Crystal Growth, 1992, 123, 174-180	1.6	2
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31	Growth of GaAs and GaP from TMG: A Comparison. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 240, 27		
30	Composition of selectively grown InxGa1\( \text{IA}\) As structures from locally resolved Raman spectroscopy. <i>Journal of Crystal Growth</i> , <b>1991</b> , 107, 151-155	1.6	53
29	New starting materials for MOMBE. <i>Journal of Crystal Growth</i> , <b>1991</b> , 107, 1021-1029	1.6	11

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27	Growth of GaP by MOVPE at very low pressure: kinetics and carbon incorporation. <i>Journal of Crystal Growth</i> , <b>1991</b> , 115, 469-473	1.6	8
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25	Correlation of carbon incorporation from TEG and effective V/III ratio on the surface in MOMBE grown GaAs. <i>Journal of Crystal Growth</i> , <b>1991</b> , 107, 1053-1054	1.6	
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18	Residual donor contamination in MOCVD, MOMBE and MBE GaAs studied by far-infrared spectroscopy. <i>Semiconductor Science and Technology</i> , <b>1989</b> , 4, 782-790	1.8	14
17	MOMBE and MOVPEA comparison of growth techniques. <i>Progress in Crystal Growth and Characterization</i> , <b>1989</b> , 19, 83-96		9
16	Carbon incorporation in MOMBE-grown Ga0.47In0.53As. Journal of Crystal Growth, 1989, 95, 154-157	1.6	50
15	Raman Study of MOMBE and Plasma-MOVPE Grown III-V Layers on Si(100). <i>Materials Research Society Symposia Proceedings</i> , <b>1989</b> , 160, 499		
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12	Quantitative analysis of carbon concentration in MOMBE p-GaAs by low-temperature photoluminescence. <i>Journal of Applied Physics</i> , <b>1988</b> , 64, 5098-5101	2.5	13
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10	Defects in GaAs films grown by MOMBE. <i>Journal of Crystal Growth</i> , <b>1987</b> , 81, 281-287	1.6	16
9	Intentional Etype doping by carbon in metalorganic MBE of GaAs. <i>Journal of Electronic Materials</i> , <b>1986</b> , 15, 57-59	1.9	75
8	A comparative study of Ga(CH3)3 and Ga(C2H5)3 in the mombe of GaAs. <i>Journal of Crystal Growth</i> , <b>1986</b> , 74, 292-300	1.6	169
7	Selective growth of GaAs in the MOMBE and MOCVD systems. <i>Journal of Crystal Growth</i> , <b>1986</b> , 77, 30	3-3 <u>0</u> Ø	125
6	Real-time monitoring of P-based semiconductor growth by linear-optical spectroscopy		1
5	High-power, high-efficiency 1150 nm quantum well laser		1
4	Sub-80 fs pulses from a mode-locked Yb:NaGd(WO/sub 4/)/sub 2/ laser		2
3	MOVPE-overgrowth for buried InP/(In,Ga)(As,P) laser diode arrays		1
2	Molten Barium Hydroxide as Defect Selective Drop Etchant for Dislocation Analysis on Aluminum Nitride Layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> ,2100707	1.6	1
1	Temperature Dependence of Dark Spot Diameters in GaN and AlGaN. <i>Physica Status Solidi (B): Basic Research</i> ,2100358	1.3	1