## **Hongxing Jiang**

# 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.

15,463 386 65 107 h-index g-index citations papers 16,745 6.4 426 3.2 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
386	Formation energy and optical excitation mechanisms of Er in GaN semi-bulk crystals. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 052103	3.4	
385	Effects of unique band structure of h-BN probed by photocurrent excitation spectroscopy. <i>Applied Physics Express</i> , <b>2022</b> , 15, 051005	2.4	0
384	Charge collection and trapping mechanisms in hexagonal boron nitride epilayers. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 221111	3.4	
383	Charge collection in h-BN neutron detectors at elevated temperatures. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 092102	3.4	3
382	Band structure and ultraviolet optical transitions in ErN. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 131108	3.4	2
381	Electrical transport properties of hexagonal boron nitride epilayers. <i>Semiconductors and Semimetals</i> , <b>2021</b> , 107, 393-454	0.6	2
380	Development of nitride microLEDs and displays. Semiconductors and Semimetals, 2021, 1-56	0.6	
379	High efficiency hexagonal boron nitride neutron detectors with 1 cm2 detection areas. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 142102	3.4	11
378	Development of microLED. Applied Physics Letters, 2020, 116, 100502	3.4	73
377	Anisotropic index of refraction and structural properties of hexagonal boron nitride epilayers probed by spectroscopic ellipsometry. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 053103	2.5	5
376	Band structure and infrared optical transitions in ErN. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 171104	3.4	4
375	Erbium energy levels in GaN grown by hydride vapor phase epitaxy. AIP Advances, 2020, 10, 125006	1.5	1
374	Direct detection of rare earth ion distributions in gallium nitride and its influence on growth morphology. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 013102	2.5	4
373	Polarization-resolved Er emission in Er doped GaN bulk crystals. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 243107	2.5	2
372	Probing the surface oxidation process in hexagonal boron nitride epilayers. <i>AIP Advances</i> , <b>2020</b> , 10, 02	52:11.3	3
371	Critical thickness of hexagonal GaBN/BN heterostructures. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 20570	032.5	4
370	Growth and fabrication of GaN/Er:GaN/GaN core-cladding planar waveguides. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 222105	3.4	7

### (2017-2019)

369	High sensitivity hexagonal boron nitride lateral neutron detectors. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 222102	3.4	14
368	Effects of surface recombination on the charge collection in h-BN neutron detectors. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 104501	2.5	10
367	Lateral charge carrier transport properties of B-10 enriched hexagonal BN thick epilayers. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 072108	3.4	9
366	Optical properties of GaN/Er:GaN/GaN corelladding planar waveguides. <i>Applied Physics Express</i> , <b>2019</b> , 12, 075505	2.4	5
365	Synthesis and photoluminescence properties of hexagonal BGaN alloys and quantum wells. <i>Applied Physics Express</i> , <b>2019</b> , 12, 011002	2.4	2
364	Room-Temperature Lasing Action in GaN Quantum Wells in the Infrared 1.5 th Region. <i>ACS Photonics</i> , <b>2018</b> , 5, 1303-1309	6.3	11
363	Origin and roles of oxygen impurities in hexagonal boron nitride epilayers. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 162103	3.4	27
362	Hexagonal boron nitride neutron detectors with high detection efficiencies. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 044501	2.5	31
361	Erbium-doped GaN bulk crystals as a gain medium for eye-safe high energy lasers 2018,		1
360	Resonant excitation cross-sections of erbium in freestanding GaN bulk crystals. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 202103	3.4	4
359	Photoluminescence quantum efficiency of Er optical centers in GaN epilayers. <i>Scientific Reports</i> , <b>2017</b> , 7, 39997	4.9	7
358	Hyperspectral Nonlinear Optical Light Generation from a Monolithic GaN Microcavity. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600804	8.1	6
357	Probing carbon impurities in hexagonal boron nitride epilayers. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 1821	0 <del>3</del> .4	24
356	Layer number dependent optical properties of multilayer hexagonal BN epilayers. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 092102	3.4	14
355	Response of alpha particles in hexagonal boron nitride neutron detectors. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 213502	3.4	O
354	Excitation and emission mechanisms of Er:GaN gain medium in 1.5 th region. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 072109	3.4	6
353	Temperature dependence studies of Er optical centers in GaN epilayers grown by MOCVD. <i>MRS Advances</i> , <b>2017</b> , 2, 135-140	0.7	О
352	Annealing of dry etch damage in metallized and bare (-201) Ga2O3. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 051201	1.3	35

351	Toward achieving flexible and high sensitivity hexagonal boron nitride neutron detectors. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 033507	3.4	25
350	Large-Scale Growth of High-Quality Hexagonal Boron Nitride Crystals at Atmospheric Pressure from an Fettr Flux. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 4932-4935	3.5	29
349	ReviewHexagonal Boron Nitride Epilayers: Growth, Optical Properties and Device Applications. <i>ECS Journal of Solid State Science and Technology</i> , <b>2017</b> , 6, Q3012-Q3021	2	46
348	High-efficiency and high-sensitivity thermal neutron detectors based on hexagonal BN epilayers <b>2017</b> ,		2
347	Temperature dependence of the energy bandgap of multi-layer hexagonal boron nitride. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 132106	3.4	7
346	Thermal neutron detectors based on hexagonal boron nitride epilayers 2016,		2
345	Enhancement of 1.5 In emission under 980 nm resonant excitation in Er and Yb co-doped GaN epilayers. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 152103	3.4	7
344	Current injection 154 µm light-emitting devices based on Er-doped GaN/AlGaN multiple quantum wells. <i>Optical Materials Express</i> , <b>2016</b> , 6, 3476	2.6	4
343	Toward the realization of erbium-doped GaN bulk crystals as a gain medium for high energy lasers. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 052101	3.4	13
342	Growth and device processing of hexagonal boron nitride epilayers for thermal neutron and deep ultraviolet detectors. <i>AIP Advances</i> , <b>2016</b> , 6, 075213	1.5	20
341	Realization of highly efficient hexagonal boron nitride neutron detectors. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 072101	3.4	55
340	The origins of near band-edge transitions in hexagonal boron nitride epilayers. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 052106	3.4	37
339	Bandgap and exciton binding energies of hexagonal boron nitride probed by photocurrent excitation spectroscopy. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 122101	3.4	31
338	Nature of exciton transitions in hexagonal boron nitride. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 122101	3.4	14
337	Hexagonal boron nitride thin film thermal neutron detectors with high energy resolution of the reaction products. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2015</b> , 783, 121-127	1.2	43
336	Erbium-doped a-plane GaN epilayers synthesized by metal-organic chemical vapor deposition. <i>Optical Materials Express</i> , <b>2015</b> , 5, 274	2.6	3
335	A Simplified Method of Making Flexible Blue LEDs on a Plastic Substrate. <i>IEEE Photonics Journal</i> , <b>2015</b> , 7, 1-7	1.8	30
334	Erbium doped GaN synthesized by hydride vapor-phase epitaxy. <i>Optical Materials Express</i> , <b>2015</b> , 5, 596	2.6	7

#### (2014-2015)

333	Erbium-doped AlN epilayers synthesized by metal-organic chemical vapor deposition. <i>Optical Materials Express</i> , <b>2015</b> , 5, 648	2.6	3
332	The origin of deep-level impurity transitions in hexagonal boron nitride. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 021110	3.4	61
331	Dramatic enhancement of 1.54 lb emission in Er doped GaN quantum well structures. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 121106	3.4	10
330	Carbon-rich hexagonal (BN)C alloys. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 215703	2.5	15
329	Optical and electrical properties of Mg-doped AlN nanowires grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 213105	3.4	43
328	Excitation mechanisms of Er optical centers in GaN epilayers. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 171105	3.4	19
327	Probing of local alloy disorder in InGaN using Er3+ ions. <i>Optical Materials</i> , <b>2014</b> , 36, 1730-1733	3.3	4
326	Temperature dependence of the energy bandgap of two-dimensional hexagonal boron nitride probed by excitonic photoluminescence. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 053503	2.5	14
325	Fabrication and characterization of solid-state thermal neutron detectors based on hexagonal boron nitride epilayers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> <b>2014</b> , 748, 84-90	1.2	43
324	Deep ultraviolet to near-infrared emission and photoresponse in layered N-doped graphene quantum dots. <i>ACS Nano</i> , <b>2014</b> , 8, 6312-20	16.7	384
323	Realizing InGaN monolithic solar-photoelectrochemical cells for artificial photosynthesis. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 143901	3.4	24
322	Crystal field analysis of rare-earth ions energy levels in GaN. Optical Materials, 2014, 37, 165-174	3.3	18
321	Characterization of bulk hexagonal boron nitride single crystals grown by the metal flux technique. <i>Journal of Crystal Growth</i> , <b>2014</b> , 403, 110-113	1.6	24
320	Hexagonal boron nitride for deep ultraviolet photonic devices. <i>Semiconductor Science and Technology</i> , <b>2014</b> , 29, 084003	1.8	93
319	Refractive index of erbium doped GaN thin films. Applied Physics Letters, 2014, 105, 081104	3.4	8
318	Charge carrier transport properties in layer structured hexagonal boron nitride. <i>AIP Advances</i> , <b>2014</b> , 4, 107126	1.5	21
317	Layer-structured hexagonal (BN)C semiconductor alloys with tunable optical and electrical properties. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 093509	2.5	30
316	Excitation cross section of erbium-doped GaN waveguides under 980 nm optical pumping. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 051106	3.4	6

315	Effects of Mg-doped AlN/AlGaN superlattices on properties of p-GaN contact layer and performance of deep ultraviolet light emitting diodes. <i>AIP Advances</i> , <b>2014</b> , 4, 047122	1.5	17
314	Electrical transport properties of (BN)-rich hexagonal (BN)C semiconductor alloys. <i>AIP Advances</i> , <b>2014</b> , 4, 087141	1.5	16
313	Optical properties of strain-free AlN nanowires grown by molecular beam epitaxy on Si substrates. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 223107	3.4	35
312	Optoelectronic properties of hexagonal boron nitride epilayers 2013,		4
311	Hexagonal boron nitride and 6H-SiC heterostructures. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 213505	3.4	37
310	SiO2/TiO2 distributed Bragg reflector near 1.5 h fabricated by e-beam evaporation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2013</b> , 31, 061514	2.9	12
309	Effects of double layer AlN buffer layers on properties of Si-doped AlxGa1NN for improved performance of deep ultraviolet light emitting diodes. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 123501	2.5	13
308	Electrical transport properties of Si-doped hexagonal boron nitride epilayers. AIP Advances, 2013, 3, 12	21.56	30
307	Optical excitation cross section of erbium in GaN. Applied Optics, 2013, 52, 1132-5	1.7	9
306	Correlation between the optical loss and crystalline quality in erbium-doped GaN optical waveguides. <i>Applied Optics</i> , <b>2013</b> , 52, 5426-9	1.7	16
305	Nitride micro-LEDs and beyonda decade progress review. <i>Optics Express</i> , <b>2013</b> , 21 Suppl 3, A475-84	3.3	137
304	Two-dimensional excitons in three-dimensional hexagonal boron nitride. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 191106	3.4	63
303	Suppression of thermal conductivity in InxGa1NN alloys by nanometer-scale disorder. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 121906	3.4	42
302	Dry etching techniques for active devices based on hexagonal boron nitride epilayers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2013</b> , 31, 061517	2.9	19
301	Origin of the significantly enhanced optical transitions in layered boron nitride. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	37
300	Dielectric strength, optical absorption, and deep ultraviolet detectors of hexagonal boron nitride epilayers. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 171112	3.4	95
299	Formation energy of optically active Er3+ centers in Er doped GaN. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 051114	3.4	12
298	Three-step growth method for high quality AlN epilayers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2012</b> , 209, 126-129	1.6	19

#### (2011-2012)

297	Deep ultraviolet photoluminescence of water-soluble self-passivated graphene quantum dots. <i>ACS Nano</i> , <b>2012</b> , 6, 5102-10	16.7	1323
296	Metal-semiconductor-metal neutron detectors based on hexagonal boron nitride epitaxial layers <b>2012</b> ,		2
295	Surfactant effects of gallium on quality of AlN epilayers grown via metal-organic chemical-vapour deposition on SiC substrates. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 285103	3	10
294	Nature of optical transitions involving cation vacancies and complexes in AlN and AlGaN. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 221107	3.4	38
293	Full-scale self-emissive blue and green microdisplays based on GaN micro-LED arrays 2012,		19
292	Effects of growth pressure on erbium doped GaN infrared emitters synthesized by metal organic chemical vapor deposition. <i>Optical Materials Express</i> , <b>2012</b> , 2, 1095	2.6	9
291	High quality AlN grown on double layer AlN buffers on SiC substrate for deep ultraviolet photodetectors. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 192106	3.4	19
290	Optical polarization in c-plane Al-rich AlN/AlxGa1-xN single quantum wells. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 042103	3.4	39
289	Band-edge transitions in hexagonal boron nitride epilayers. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 051110	3.4	42
288	Epitaxial growth and demonstration of hexagonal BN/AlGaN p-n junctions for deep ultraviolet photonics. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 061121	3.4	76
287	Semiconducting hexagonal boron nitride for deep ultraviolet photonics 2012,		9
286	High-Quality Al-Rich AlGaN Alloys. Springer Series in Materials Science, <b>2012</b> , 29-81	0.9	8
285	Photonic properties of erbium doped InGaN alloys grown on Si (001) substrates. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 081102	3.4	13
284	Origin of background electron concentration in InxGa1NN alloys. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	33
283	Hexagonal boron nitride epitaxial layers as neutron detector materials. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 654, 417-420	1.2	93
282	Metastable Giant Moments in Gd-Implanted GaN, Si, and Sapphire. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2011</b> , 24, 2123-2128	1.5	4
281	III-Nitride full-scale high-resolution microdisplays. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 031116	3.4	198
280	Enhanced magnetization in erbium doped GaN thin films due to strain induced electric fields. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 122506	3.4	11

279	Emission and absorption cross-sections of an Er:GaN waveguide prepared with metal organic chemical vapor deposition. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 121106	3.4	10
278	Epitaxially grown semiconducting hexagonal boron nitride as a deep ultraviolet photonic material. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 211110	3.4	156
277	Thermoelectric Properties of Er-doped InGaN Alloys for High Temperature Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1325, 41		1
276	AlN <b>2011</b> , 21-68		
275	Evolution of phase separation in In-rich InGaN alloys. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 232105	3.4	36
274	Probing the relationship between structural and optical properties of Si-doped AlN. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 131906	3.4	18
273	Nature of deep center emissions in GaN. Applied Physics Letters, <b>2010</b> , 96, 151902	3.4	84
272	Carrier lifetime in erbium-doped GaN waveguide emitting in 1540 nm wavelength. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 241105	3.4	16
271	Er-Doped GaN and InxGa1-xN for Optical Communications. <i>Topics in Applied Physics</i> , <b>2010</b> , 115-157	0.5	6
270	InGaN/GaN multiple quantum well concentrator solar cells. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 073115	3.4	147
269	Hydrogen generation by solar water splitting using p-InGaN photoelectrochemical cells. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 052110	3.4	116
268	Enhancing erbium emission by strain engineering in GaN heteroepitaxial layers. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 031908	3.4	23
267	1.54 th emitters based on erbium doped InGaN p-i-n junctions. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 141109	3.4	42
266	Temperature-dependent photoluminescence and electron field emission properties of AlN nanotip arrays. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 173106	3.4	28
265	Electrical and optical properties of p-type InGaN. Applied Physics Letters, 2009, 95, 261904	3.4	56
264	High quality AlN for deep UV photodetectors. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 054101	3.4	37
263	The origin of 2.78 eV emission and yellow coloration in bulk AlN substrates. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 262104	3.4	38
262	Erbium-doped GaN optical amplifiers operating at 1.54 fh. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 111109	3.4	42

#### (2008-2009)

261	Deep ultraviolet photoluminescence of Tm-doped AlGaN alloys. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 11110	03,.4	6
260	Probing exciton-phonon interaction in AlN epilayers by photoluminescence. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 061106	3.4	20
259	Thermoelectric Properties of In0.3Ga0.7N Alloys. <i>Journal of Electronic Materials</i> , <b>2009</b> , 38, 1132-1135	1.9	24
258	Optical enhancement of room temperature ferromagnetism in Er-doped GaN epilayers. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 022510	3.4	21
257	Photoluminescence studies of impurity transitions in Mg-doped AlGaN alloys. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 091903	3.4	120
256	Photoluminescence properties of erbium doped InGaN epilayers. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 0411	1334	4
255	InGaN/GaN multiple quantum well solar cells with long operating wavelengths. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 063505	3.4	274
254	Thermoelectric properties of InxGa1⊠N alloys. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 042112	3.4	91
253	Single phase InxGa1᠒N (0.25᠒0.63) alloys synthesized by metal organic chemical vapor deposition. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 182107	3.4	47
252	High mobility InN epilayers grown on AlN epilayer templates. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 172101	3.4	35
252 251	High mobility InN epilayers grown on AlN epilayer templates. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 172101  Structure and Photoluminescence Study of TiO2 Nanoneedle Texture along Vertically Aligned Carbon Nanofiber Arrays. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17127-17132	3.4	35 122
	Structure and Photoluminescence Study of TiO2 Nanoneedle Texture along Vertically Aligned		
251	Structure and Photoluminescence Study of TiO2 Nanoneedle Texture along Vertically Aligned Carbon Nanofiber Arrays. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17127-17132  Si-doped high Al-content AlGaN epilayers with improved quality and conductivity using indium as a	3.8	122
251 250	Structure and Photoluminescence Study of TiO2 Nanoneedle Texture along Vertically Aligned Carbon Nanofiber Arrays. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17127-17132  Si-doped high Al-content AlGaN epilayers with improved quality and conductivity using indium as a surfactant. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 092105  III-nitride micro-emitter arrays: development and applications. <i>Journal Physics D: Applied Physics</i> ,	3.8	122 33
251 250 249	Structure and Photoluminescence Study of TiO2 Nanoneedle Texture along Vertically Aligned Carbon Nanofiber Arrays. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17127-17132  Si-doped high Al-content AlGaN epilayers with improved quality and conductivity using indium as a surfactant. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 092105  III-nitride micro-emitter arrays: development and applications. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 094001  Direct hydrogen gas generation by using InGaN epilayers as working electrodes. <i>Applied Physics</i>	3.8 3.4 3	122 33 80
251 250 249 248	Structure and Photoluminescence Study of TiO2 Nanoneedle Texture along Vertically Aligned Carbon Nanofiber Arrays. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17127-17132  Si-doped high Al-content AlGaN epilayers with improved quality and conductivity using indium as a surfactant. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 092105  Ill-nitride micro-emitter arrays: development and applications. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 094001  Direct hydrogen gas generation by using InGaN epilayers as working electrodes. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 162107  Characterization of AlN metal-semiconductor-metal diodes in the spectral range of 44B60nm:	3.8 3.4 3 3.4	<ul><li>122</li><li>33</li><li>80</li><li>78</li></ul>
251 250 249 248	Structure and Photoluminescence Study of TiO2 Nanoneedle Texture along Vertically Aligned Carbon Nanofiber Arrays. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17127-17132  Si-doped high Al-content AlGaN epilayers with improved quality and conductivity using indium as a surfactant. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 092105  Ill-nitride micro-emitter arrays: development and applications. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 094001  Direct hydrogen gas generation by using InGaN epilayers as working electrodes. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 162107  Characterization of AlN metal-semiconductor-metal diodes in the spectral range of 44B60nm: Photoemission assessments. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 022108	3.8 3.4 3 3.4	122 33 80 78 41

243	Current-injected 1.54th light emitting diodes based on erbium-doped GaN. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 033502	3.4	21
242	Spectroscopic studies of Er-centers in MOCVD grown GaN layers highly doped with Er. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2008</b> , 146, 193-195	3.1	14
241	Aln MSM and Schottky photodetectors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 2148-2151		11
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