# Fan Ren

# List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/2028326/fan-ren-publications-by-year.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

545	17,361	63	112
papers	citations	h-index	g-index
583	19,353 ext. citations	3.3	6.69
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
545	Digital biosensor for human cerebrospinal fluid detection with single-use sensing strips. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2022</b> , 40, 023202	1.3	1
544	Rapid SARS-CoV-2 diagnosis using disposable strips and a metal-oxide-semiconductor field-effect transistor platform. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2022</b> , 40, 023204	1.3	3
543	Variable temperature probing of minority carrier transport and optical properties in p-Ga2O3. <i>APL Materials</i> , <b>2022</b> , 10, 031106	5.7	2
542	Deep level defect states in [] [] and e-Ga2O3 crystals and films: Impact on device performance. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2022</b> , 40, 020804	2.9	11
541	Exfoliated and bulk Egallium oxide electronic and photonic devices 2022, 1, 100001		O
540	Thermo-mechanical aspects of gamma irradiation effects on GaN HEMTs. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 124101	3.4	4
539	Growth and characterization of (Sc2O3)x(Ga2O3)1\( \text{by molecular beam epitaxy.}\) Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, <b>2022</b> , 40, 043403	2.9	1
538	Thermal effects in Ga2O3 rectifiers and MOSFETs borrowing from GaN <b>2022</b> , 441-467		
537	Temperature dependence of cathodoluminescence emission in irradiated Si-doped EGa2O3. <i>AIP Advances</i> , <b>2021</b> , 11, 125014	1.5	3
536	Thermal Stability of Transparent ITO/n-Ga2O3/n+-Ga2O3/ITO Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , <b>2021</b> , 10, 115005	2	0
535	Al Composition Dependence of Band Offsets for SiO2 on <code>E(AlxGa1]2)2O3</code> . <i>ECS Journal of Solid State Science and Technology</i> , <b>2021</b> , 10, 113007	2	1
534	1 GeV proton damage in EGa2O3. Journal of Applied Physics, 2021, 130, 185701	2.5	1
533	Artificial Neuron and Synapse Devices Based on 2D Materials. <i>Small</i> , <b>2021</b> , 17, e2100640	11	17
532	Vertical EGa2O3 Schottky rectifiers with 750 V reverse breakdown voltage at 600 K. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 305103	3	4
531	Fast SARS-CoV-2 virus detection using disposable cartridge strips and a semiconductor-based biosensor platform. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2021</b> , 39, 033202	1.3	6
530	ReviewRadiation Damage in Wide and Ultra-Wide Bandgap Semiconductors. <i>ECS Journal of Solid State Science and Technology</i> , <b>2021</b> , 10, 055008	2	19
529	Experimental estimation of electronBole pair creation energy in EGa2O3. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 202106	3.4	8

# (2020-2021)

528	Electron beam probing of non-equilibrium carrier dynamics in 18 MeV alpha particle- and 10 MeV proton-irradiated Si-doped EGa2O3 Schottky rectifiers. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 202105	3.4	5	
527	Neuromorphic Devices: Artificial Neuron and Synapse Devices Based on 2D Materials (Small 20/2021). <i>Small</i> , <b>2021</b> , 17, 2170092	11		
526	A Review: Microstructural and Phase Evolution in Alloys during Extended Plastic Deformation. <i>Jom</i> , <b>2021</b> , 73, 2212-2224	2.1	1	
525	Crystal orientation dependence of deep level spectra in proton irradiated bulk EGa2O3. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 035701	2.5	4	
524	Qualitative Analysis of Remineralization Capabilities of Bioactive Glass (NovaMin) and Fluoride on Hydroxyapatite (HA) Discs: An In Vitro Study. <i>Materials</i> , <b>2021</b> , 14,	3.5	3	
523	Novel Coatings to Minimize Corrosion of Titanium in Oral Biofilm. <i>Materials</i> , <b>2021</b> , 14,	3.5	4	
522	Design of Ga2O3 modulation doped field effect transistors. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 023412	2.9	4	
521	Review Dpportunities in Single Event Effects in Radiation-Exposed SiC and GaN Power Electronics. <i>ECS Journal of Solid State Science and Technology</i> , <b>2021</b> , 10, 075004	2	5	
520	OH-Si complex in hydrogenated n-type EGa2O3:Si. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 062109	3.4	6	
519	Nanostructured Surfaces to Promote Osteoblast Proliferation and Minimize Bacterial Adhesion on Titanium. <i>Materials</i> , <b>2021</b> , 14,	3.5	3	
518	Temperature dependent performance of ITO Schottky contacts on EGa2O3. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 053405	2.9	6	
517	On the nature of photosensitivity gain in Ga2O3 Schottky diode detectors: Effects of hole trapping by deep acceptors. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 879, 160394	5.7	6	
516	Nitrogen ion-implanted resistive regions for edge termination of vertical Ga2O3 rectifiers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 063405	2.9	3	
515	Diffusion of dopants and impurities in EGa2O3. <i>Journal of Vacuum Science and Technology A:</i> Vacuum, Surfaces and Films, <b>2021</b> , 39, 060801	2.9	8	
514	Effect of probe geometry during measurement of >100 A Ga2O3 vertical rectifiers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 013406	2.9	11	
513	Titanium Corrosion in Peri-Implantitis. <i>Materials</i> , <b>2020</b> , 13,	3.5	1	
512	Hydroxyapatite Formation on Coated Titanium Implants Submerged in Simulated Body Fluid. <i>Materials</i> , <b>2020</b> , 13,	3.5	3	
511	Band offset determination for amorphous Al2O3 deposited on bulk AlN and atomic-layer epitaxial AlN on sapphire. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 182103	3.4	1	

0.9

494

493

Diodes 1. Springer Series in Materials Science, 2020, 661-688

in Electornics and Systems, 2020, 127-144

Opportunities and Challenges in MOCVD of EGa2O3 for Power Electronic Devices. Selected Topics

492	Preface ISS Focus Issue on Gallium Oxide Based Materials and Devices II. <i>ECS Journal of Solid State Science and Technology</i> , <b>2020</b> , 9, 060001	2	О
491	Anti-Bacterial Properties and Biocompatibility of Novel SiC Coating for Dental Ceramic. <i>Journal of Functional Biomaterials</i> , <b>2020</b> , 11,	4.8	11
490	Design and implementation of floating field ring edge termination on vertical geometry EGa2O3 rectifiers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 063414	2.9	1
489	PrefaceUSS Focus Issue on Solid-State Materials and Devices for Biological and Medical Applications. <i>ECS Journal of Solid State Science and Technology</i> , <b>2020</b> , 9, 110001	2	
488	Role of hole trapping by deep acceptors in electron-beam-induced current measurements in EGa2O3 vertical rectifiers. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 495108	3	11
487	Review Dpportunities for Rapid, Sensitive Detection of Troponin and Cerebral Spinal Fluid Using Semiconductor Sensors. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 037507	3.9	4
486	A Two-Electrode, Double-Pulsed Sensor Readout Circuit for Cardiac Troponin I Measurement. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2020</b> , 14, 1362-1370	5.1	3
485	Impact of electron injection on carrier transport and recombination in unintentionally doped GaN. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 085702	2.5	5
484	Demonstration of a SiC Protective Coating for Titanium Implants. <i>Materials</i> , <b>2020</b> , 13,	3.5	10
483	Rapid Electrochemical Detection for SARS-CoV-2 and Cardiac Troponin I Using Low-Cost, Disposable and Modular Biosensor System <b>2020</b> ,		4
482	High temperature operation to 500 °C of AlGaN graded polarization-doped field-effect transistors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 033202	1.3	1
481	Antibacterial Properties of Charged TiN Surfaces for Dental Implant Application. <i>ChemistrySelect</i> , <b>2019</b> , 4, 9185-9189	1.8	6
480	Forward bias degradation and thermal simulations of vertical geometry EGa2O3 Schottky rectifiers. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2019</b> , 37, 061205	1.3	11
479	Band Offsets of Insulating & Semiconducting Oxides on (AlxGa1-x)O3. ECS Transactions, 2019, 92, 79-88	3 1	5
478	Diffusion of implanted Ge and Sn in EGa2O3. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2019</b> , 37, 051204	1.3	16
477	Effect of thermal annealing for W/EGa2O3 Schottky diodes up to 600 LC. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2019</b> , 37, 061201	1.3	10
476	Radiation damage effects in Ga2O3 materials and devices. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10-	<b>-2</b> /4.1	90
475	Electron injection-induced effects in Si-doped EGa2O3. AIP Advances, <b>2019</b> , 9, 015127	1.5	11

Thermal Simulations of High Current EGa2O3 Schottky Rectifiers. ECS Journal of Solid State Science

2

17

and Technology, **2019**, 8, Q3195-Q3201

456	60Co Gamma Ray Damage in Homoepitaxial EGa2O3Schottky Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , <b>2019</b> , 8, Q3041-Q3045	2	10
455	Valence band offsets for ALD SiO2 and Al2O3 on $(InxGa1 \ 200 \ 100 \ 200 \ 1$	5.7	9
454	The role of annealing ambient on diffusion of implanted Si in EGa2O3. AIP Advances, 2019, 9, 085111	1.5	18
453	Hydrogen plasma treatment of EGa2O3: Changes in electrical properties and deep trap spectra. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 032101	3.4	29
452	Band Alignment of Atomic Layer Deposited SiO2 and Al2O3 on (AlxGa1-x)2O3 for x = 0.2-0.65. <i>ECS Journal of Solid State Science and Technology</i> , <b>2019</b> , 8, P351-P356	2	8
451	A Reconfigurable, Pulse-shaping Potentiometric Readout System for Bio-Sensing Transistors.  Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE  Engineering in Medicine and Biology Society Annual International Conference, <b>2019</b> , 2019, 5761-5764	0.9	2
450	Effects of Hydrogen Plasma Treatment Condition on Electrical Properties of EGa2O3. <i>ECS Journal of Solid State Science and Technology</i> , <b>2019</b> , 8, P661-P666	2	4
449	Valence- and Conduction-Band Offsets for Atomic-Layer-Deposited Al2O3 on (010) (Al0.14Ga0.86)2O3. <i>Journal of Electronic Materials</i> , <b>2019</b> , 48, 1568-1573	1.9	19
448	Impact of Electron Injection and Temperature on Minority Carrier Transport in Alpha-Irradiated EGa2O3 Schottky Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , <b>2019</b> , 8, Q3050-Q3053	2	8
447	Comprehensive analysis of laserscanner validity used for measurement of wear. <i>Journal of Oral Rehabilitation</i> , <b>2019</b> , 46, 503-510	3.4	2
446	Effect of Annealing on the Band Alignment of ALD SiO2 on (AlxGa1-x)2O3 for $x = 0.2 - 0.65$ . ECS Journal of Solid State Science and Technology, <b>2019</b> , 8, P751-P756	2	4
445	Annealing of Proton and Alpha Particle Damage in Au-W/EGa2O3 Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , <b>2019</b> , 8, P799-P804	2	1
444	Opportunities and Challenges in MOCVD of La2O3 for Power Electronic Devices. <i>International Journal of High Speed Electronics and Systems</i> , <b>2019</b> , 28, 1940007	0.5	4
443	Optimization of Edge Termination Techniques for EGa2O3 Schottky Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , <b>2019</b> , 8, Q234-Q239	2	10
442	Temperature-Dependent Electrical Characteristics of EGa2O3Diodes with W Schottky Contacts up to 500°C. ECS Journal of Solid State Science and Technology, <b>2019</b> , 8, Q3007-Q3012	2	28
441	Valence and conduction band offsets for sputtered AZO and ITO on (010) (Al0.14Ga0.86)2O3. Semiconductor Science and Technology, <b>2019</b> , 34, 025006	1.8	6
440	2D Material-Based Vertical Double Heterojunction Bipolar Transistors with High Current Amplification. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800745	6.4	16
439	Defect States Determining Dynamic Trapping-Detrapping in EGa2O3 Field-Effect Transistors. <i>ECS Journal of Solid State Science and Technology</i> , <b>2019</b> , 8, Q3013-Q3018	2	19

438	Dynamic Switching Characteristics of 1 A Forward Current \$boldsymbol{beta}\$ -Ga2O3 Rectifiers. <i>IEEE Journal of the Electron Devices Society</i> , <b>2019</b> , 7, 57-61	2.3	20
437	Effect of Deposition Method on Valence Band Offsets of SiO2 and Al2O3 on (Al0.14Ga0.86)2O3. <i>ECS Journal of Solid State Science and Technology</i> , <b>2019</b> , 8, Q3001-Q3006	2	9
436	Band alignments of dielectrics on (IZ01) EGa2O3 <b>2019</b> , 287-311		2
435	Moisture Insensitive PMMA Coated Pt-AlGaN/GaN Diode Hydrogen Sensor and Its Thermal Stability. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, Q3009-Q3013	2	7
434	Trapping Phenomena in InAlN/GaN High Electron Mobility Transistors. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, Q1-Q7	2	9
433	Point defect induced degradation of electrical properties of Ga2O3 by 10 MeV proton damage. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 032107	3.4	72
432	A review of Ga2O3 materials, processing, and devices. <i>Applied Physics Reviews</i> , <b>2018</b> , 5, 011301	17.3	1114
431	10 MeV proton damage in EGa2O3 Schottky rectifiers. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2018</b> , 36, 011206	1.3	24
430	Effects of fluorine incorporation into EGa2O3. Journal of Applied Physics, 2018, 123, 165706	2.5	16
429	Effect of 1.5 MeV electron irradiation on EGa2O3 carrier lifetime and diffusion length. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 082104	3.4	37
428	AlGaN/GaN Heterostructure Based Schottky Diode Sensors with ZnO Nanorods for Environmental Ammonia Monitoring Applications. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, Q3020-Q	3024	14
427	Randomized clinical study of wear of enamel antagonists against polished monolithic zirconia crowns. <i>Journal of Dentistry</i> , <b>2018</b> , 68, 19-27	4.8	46
426	A comparative study of wet etching and contacts on (2001) and (010) oriented EGa2O3. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 731, 118-125	5.7	35
425	Novel Testing for Corrosion of Glass-Ceramics for Dental Applications. <i>Journal of Dental Research</i> , <b>2018</b> , 97, 296-302	8.1	6
424	Effect of alpha-particle irradiation dose on SiNx/AlGaN/GaN metal <b>i</b> hsulator semiconductor high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2018</b> , 36, 041203	1.3	4
423	Zika virus detection using antibody-immobilized disposable cover glass and AlGaN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 032101	3.4	18
422	Diffusion length of non-equilibrium minority charge carriers in EGa2O3 measured by electron beam induced current. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 185704	2.5	37
421	Eighteen mega-electron-volt alpha-particle damage in homoepitaxial EGa2O3 Schottky rectifiers.  Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, 031205	1.3	13

420	Ga2O3 Schottky rectifiers with 1 ampere forward current, 650 V reverse breakdown and 26.5 MW.cm-2 figure-of-merit. <i>AIP Advances</i> , <b>2018</b> , 8, 055026	1.5	51
419	Vertical Geometry, 2-A Forward Current Ga2O3 Schottky Rectifiers on Bulk Ga2O3 Substrates. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 2790-2796	2.9	30
418	Perspective: Ga2O3 for ultra-high power rectifiers and MOSFETS. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 220901	2.5	245
417	Band alignment of atomic layer deposited SiO2 on (010) (Al0.14Ga0.86)2O3. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2018</b> , 36, 061207	1.3	15
416	Band Offsets for Atomic Layer Deposited HfSiO4 on (Al0.14Ga0.86)2O3. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, P519-P523	2	8
415	Effect of surface treatments on electrical properties of EGa2O3. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2018</b> , 36, 061201	1.3	30
414	Electrical properties of bulk semi-insulating EGa2O3 (Fe). Applied Physics Letters, 2018, 113, 142102	3.4	59
413	Valence band offsets for CuI on (-201) bulk Ga2O3 and epitaxial (010) (Al0.14Ga0.86)2O3. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 182101	3.4	12
412	Hole traps and persistent photocapacitance in proton irradiated EGa2O3 films doped with Si. <i>APL Materials</i> , <b>2018</b> , 6, 096102	5.7	50
411	Effect of proton irradiation energy on SiNx/AlGaN/GaN metal-insulator semiconductor high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2018</b> , 36, 052202	1.3	11
410	Defects responsible for charge carrier removal and correlation with deep level introduction in irradiated EGa2O3. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 092102	3.4	46
409	2300V Reverse Breakdown Voltage Ga2O3Schottky Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, Q92-Q96	2	116
408	Hydrogen Sensing Characteristics of Pt Schottky Diodes on () and (010) Ga2O3Single Crystals. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, Q3180-Q3182	2	15
407	Current relaxation analysis in AlGaN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 011207	1.3	7
406	Temperature-Dependent Characteristics of Ni/Au and Pt/Au Schottky Diodes on EGa2O3. <i>ECS Journal of Solid State Science and Technology</i> , <b>2017</b> , 6, P68-P72	2	63
405	Effect of deposition conditions and composition on band offsets in atomic layer deposited HfxSi1NOy on InGaZnO4. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 011206	1.3	8
404	Energy band offsets of dielectrics on InGaZnO4. Applied Physics Reviews, 2017, 4, 021301	17.3	57
403	High reverse breakdown voltage Schottky rectifiers without edge termination on Ga2O3. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 192101	3.4	118

402	1.5 MeV electron irradiation damage in EGa2O3 vertical rectifiers. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 031208	1.3	41
401	Band alignment of Al2O3 with (201) EGa2O3. <i>Vacuum</i> , <b>2017</b> , 142, 52-57	3.7	47
400	Inductively coupled plasma etching of bulk, single-crystal Ga2O3. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 031205	1.3	23
399	Perspective Dpportunities and Future Directions for Ga2O3. ECS Journal of Solid State Science and Technology, <b>2017</b> , 6, P356-P359	2	261
398	High Breakdown Voltage (201) \$beta \$-Ga2O3 Schottky Rectifiers. <i>IEEE Electron Device Letters</i> , <b>2017</b> , 38, 906-909	4.4	114
397	Band offsets in ITO/Ga2O3 heterostructures. <i>Applied Surface Science</i> , <b>2017</b> , 422, 179-183	6.7	35
396	Conduction and valence band offsets of LaAl2O3 with (201) EGa2O3. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 041201	1.3	24
395	Valence and conduction band offsets in AZO/Ga2O3 heterostructures. <i>Vacuum</i> , <b>2017</b> , 141, 103-108	3.7	29
394	Tuning the thickness of exfoliated quasi-two-dimensional EGa2O3 flakes by plasma etching. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 131901	3.4	54
393	Low dose 60Co gamma-irradiation effects on electronic carrier transport and DC characteristics of AlGaN/GaN high-electron-mobility transistors. <i>Radiation Effects and Defects in Solids</i> , <b>2017</b> , 172, 250-25	6 <sup>0.9</sup>	22
392	Inductively coupled plasma etch damage in (-201) Ga2O3 Schottky diodes. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 142101	3.4	37
391	Pt-AlGaN/GaN Hydrogen Sensor With Water-Blocking PMMA Layer. <i>IEEE Electron Device Letters</i> , <b>2017</b> , 38, 657-660	4.4	25
390	Influence of High-Energy Proton Irradiation on EGaO Nanobelt Field-Effect Transistors. <i>ACS Applied Materials &amp; District Materials &amp; Di</i>	9.5	76
389	Improvement of Ohmic contacts on Ga2O3 through use of ITO-interlayers. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 061201	1.3	27
388	Gate-Lag in AlGaN/GaN High Electron Mobility Transistors: A Model of Charge Capture. <i>ECS Journal of Solid State Science and Technology</i> , <b>2017</b> , 6, S3034-S3039	2	10
387	Ohmic contacts on n-type EGa2O3 using AZO/Ti/Au. <i>AIP Advances</i> , <b>2017</b> , 7, 095313	1.5	32
386	Silver-Functionalized AlGaN/GaN Heterostructure Diode for Ethanol Sensing. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, B417-B420	3.9	2
385	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

384	Temperature and Humidity Dependence of Response of PMGI-Encapsulated Pt-AlGaN/GaN Diodes for Hydrogen Sensing. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 5817-5822	4	9
383	Band alignment of atomic layer deposited SiO2and HfSiO4with \$(bar{2}01)\$ EGa2O3. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 071101	1.4	27
382	Rapid detection of cardiac troponin I using antibody-immobilized gate-pulsed AlGaN/GaN high electron mobility transistor structures. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 202104	3.4	19
381	Detection of ammonia at low concentrations (0.1½ ppm) with ZnO nanorod-functionalized AlGaN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2017</b> , 35, 042201	1.3	6
380	Optical Signature of the Electron Injection in Ga2O3. <i>ECS Journal of Solid State Science and Technology</i> , <b>2017</b> , 6, Q3049-Q3051	2	9
379	Thermal Stability of Implanted or Plasma Exposed Deuterium in Single Crystal Ga2O3. <i>ECS Journal of Solid State Science and Technology</i> , <b>2017</b> , 6, Q3026-Q3029	2	16
378	Extraction of Migration Energies and Role of Implant Damage on Thermal Stability of Deuterium in Ga2O3. <i>ECS Journal of Solid State Science and Technology</i> , <b>2017</b> , 6, P794-P797	2	15
377	Quasi-two-dimensional Egallium oxide solar-blind photodetectors with ultrahigh responsivity. Journal of Materials Chemistry C, <b>2016</b> , 4, 9245-9250	7.1	89
376	Rapid Detection of Biotoxin and Pathogen, and Quick Identification of Ligand-Receptor Binding Affinity Using AlGaN/GaN High Electron Mobility Transistors <b>2016</b> , 103-147		
375	ReviewIbnizing Radiation Damage Effects on GaN Devices. <i>ECS Journal of Solid State Science and Technology</i> , <b>2016</b> , 5, Q35-Q60	2	182
375 374		1.3	182
	Technology, 2016, 5, Q35-Q60  Elevated temperature performance of Si-implanted solar-blind EGa2O3 photodetectors. Journal of		
374	Technology, 2016, 5, Q35-Q60  Elevated temperature performance of Si-implanted solar-blind EGa2O3 photodetectors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 041207  Effect of 5 MeV proton irradiation damage on performance of EGa2O3 photodetectors. Journal of	1.3	20
374 373	Elevated temperature performance of Si-implanted solar-blind EGa2O3 photodetectors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2016</b> , 34, 041207  Effect of 5 MeV proton irradiation damage on performance of EGa2O3 photodetectors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2016</b> , 34, 041213  Deep traps and instabilities in AlGaN/GaN high electron mobility transistors on Si substrates.	1.3	20 47
374 373 372	Elevated temperature performance of Si-implanted solar-blind EGa2O3 photodetectors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 041207  Effect of 5 MeV proton irradiation damage on performance of EGa2O3 photodetectors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 041213  Deep traps and instabilities in AlGaN/GaN high electron mobility transistors on Si substrates. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 041216  Effect of proton irradiation dose on InAlN/GaN metal-oxide semiconductor high electron mobility transistors with Al2O3 gate oxide. Journal of Vacuum Science and Technology B:Nanotechnology and	1.3 1.3	20 47 13
374 373 372 371	Elevated temperature performance of Si-implanted solar-blind EGa2O3 photodetectors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 041207  Effect of 5 MeV proton irradiation damage on performance of EGa2O3 photodetectors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 041213  Deep traps and instabilities in AlGaN/GaN high electron mobility transistors on Si substrates. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 041216  Effect of proton irradiation dose on InAlN/GaN metal-oxide semiconductor high electron mobility transistors with Al2O3 gate oxide. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, 051202  Effect of front and back gates on EGa2O3 nano-belt field-effect transistors. Applied Physics Letters,	1.3 1.3 1.3	20 47 13
374 373 372 371 370	Elevated temperature performance of Si-implanted solar-blind EGa2O3 photodetectors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2016</b> , 34, 041207  Effect of 5 MeV proton irradiation damage on performance of EGa2O3 photodetectors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2016</b> , 34, 041213  Deep traps and instabilities in AlGaN/GaN high electron mobility transistors on Si substrates. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2016</b> , 34, 041216  Effect of proton irradiation dose on InAlN/GaN metal-oxide semiconductor high electron mobility transistors with Al2O3 gate oxide. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2016</b> , 34, 051202  Effect of front and back gates on EGa2O3 nano-belt field-effect transistors. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 062102  Deuterium incorporation and diffusivity in plasma-exposed bulk Ga2O3. <i>Applied Physics Letters</i> ,	1.3 1.3 1.3 3.4	20 47 13 12

366	Simulation of Radiation Effects in AlGaN/GaN HEMTs. <i>ECS Journal of Solid State Science and Technology</i> , <b>2015</b> , 4, Q21-Q25	2	23
365	Impact of low dose gamma irradiation on electronic carrier transport in AlGaN/GaN High Electron Mobility Transistors. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1792, 1		3
364	Band offsets in HfSiO4/IGZO heterojunctions. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2015</b> , 33, 061209	1.3	3
363	Effect of proton irradiation energy on AlGaN/GaN metal-oxide semiconductor high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2015</b> , 33, 051208	1.3	8
362	Investigation of traps in AlGaN/GaN high electron mobility transistors by sub-bandgap optical pumping. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2015</b> , 33, 061202	1.3	16
361	Effect of proton irradiation on AlGaN/GaN high electron mobility transistor off-state drain breakdown voltage. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 082106	3.4	15
360	Hydrogen sensing characteristics of semipolar (112½) GaN Schottky diodes. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 072103	3.4	21
359	Radiation Damage in GaN-Based Materials and Devices <b>2014</b> , 345-387		3
358	Effect of proton irradiation on thermal resistance and breakdown voltage of InAlN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2014</b> , 32, 051203	1.3	6
357	Effect of low dose Erradiation on DC performance of circular AlGaN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2014</b> , 32, 031203	1.3	19
356	Investigation of C-terminal domain of SARS nucleocapsid protein-Duplex DNA interaction using transistors and binding-site models. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 193, 334-339	8.5	5
355	Sb-based semiconductors for low power electronics. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 4616	7.1	16
354	Review of radiation damage in GaN-based materials and devices. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2013</b> , 31, 050801	2.9	145
353	Modeling Proton Irradiation in AlGaN/GaN HEMTs: Understanding the Increase of Critical Voltage. <i>IEEE Transactions on Nuclear Science</i> , <b>2013</b> , 60, 4103-4108	1.7	25
352	Radiation effects in GaN materials and devices. Journal of Materials Chemistry C, 2013, 1, 877-887	7.1	139
351	Field-induced defect morphology in Ni-gate AlGaN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 023503	3.4	9
350	Light-actuated water droplet motions on ZnO nanorods. <i>Microsystem Technologies</i> , <b>2013</b> , 19, 245-251	1.7	3
349	Effect of temperature on CO sensing response in air ambient by using ZnO nanorod-gated AlGaN/GaN high electron mobility transistors. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 176, 708-712	8.5	16

348	AlGaN/GaN high electron mobility transistors for protein-peptide binding affinity study. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 41, 717-22	11.8	28
347	Gamma irradiation impact on electronic carrier transport in AlGaN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 062102	3.4	44
346	Effects of 2 MeV Ge+ irradiation on AlGaN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2013</b> , 31, 021205	1.3	8
345	Characteristics of carbon monoxide sensors made by polar and nonpolar zinc oxide nanowires gated AlGaN/GaN high electron mobility transistor. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 083506	3.4	16
344	Effect of electron irradiation on AlGaN/GaN and InAlN/GaN heterojunctions. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2013</b> , 31, 022206	1.3	19
343	Human immunodeficiency virus drug development assisted with AlGaN/GaN high electron mobility transistors and binding-site models. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 173704	3.4	11
342	Recent advances in wide bandgap semiconductor-based gas sensors <b>2013</b> , 159-219		3
341	Viscosity-dependent drain current noise of AlGaN/GaN high electron mobility transistor in polar liquids. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 204503	2.5	1
340	Dependence on proton energy of degradation of AlGaN/GaN high electron mobility transistors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 022201	1.3	29
339	Electrical characterization of 60Co gamma radiation-exposed InAlN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2013</b> , 31, 051210	1.3	10
338	Radiation Damage in GaN-Based Materials and Devices <b>2013</b> , 1753-1764		1
337	Wide Bandgap Semiconductor One-Dimensional Nanostructures for Applications in Nanoelectronics and Nanosensors. <i>Nanomaterials and Nanotechnology</i> , <b>2013</b> , 3, 1	2.9	78
336	Highly sensitive AlGaN/GaN diode-based hydrogen sensors using platinum nanonetworks. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 164, 64-68	8.5	29
335	Gallium nitride-based gas, chemical and biomedical sensors. <i>IEEE Instrumentation and Measurement Magazine</i> , <b>2012</b> , 15, 16-21	1.4	12
334	A facile method for flexible GaN-based light-emitting diodes. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2012</b> , 6, 421-423	2.5	3
333	Effect of buffer layer structure on electrical and structural properties of AlGaN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2012</b> , 30, 011205	1.3	13
332	Investigation of the binding affinity of C-terminal domain of SARS coronavirus nucleocapsid protein to nucleotide using AlGaN/GaN high electron mobility transistors <b>2012</b> ,		1
331	Comparison of neutron irradiation effects in AlGaN/AlN/GaN, AlGaN/GaN, and InAlN/GaN heterojunctions. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2012</b> , 30, 061207	1.3	28

0.9

5

312	Large-area suspended graphene on GaN nanopillars. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 060601	1.3	9
311	Comparison of passivation layers for AlGaN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 061204	1.3	11
310	Recent Advances in Wide-Bandgap Semiconductor Biological and Gas Sensors <b>2011</b> , 43-96		3
309	ZnO, GaN, and InN Functionalized Nanowires for Sensing and Photonics Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2011</b> , 17, 1092-1101	3.8	19
308	Detection of vitellogenin, an endocrine disrupter biomarker, using AlGaN/GaN high electron mobility transistors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 2486-2488		5
307	Electric-Field-Driven Degradation in off-State Step-Stressed AlGaN/GaN High-Electron Mobility Transistors. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2011</b> , 11, 187-193	1.6	33
306	Finite-element simulations of the effect of device design on channel temperature for AlGaN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 020603	1.3	14
305	Investigating the effect of off-state stress on trap densities in AlGaN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2011</b> , 29, 060603	1.3	11
304	Effect of temperature on CO detection sensitivity of ZnO nanorod-gated AlGaN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 142107	3.4	12
303	Measurement of SiO2/InZnGaO4 heterojunction band offsets by x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 242110	3.4	35
302	Oxygen sensors made by monolayer graphene under room temperature. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 243502	3.4	96
301	Characterization of the gate oxide of an AlGaN/GaN high electron mobility transistor. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 122103	3.4	30
300	Surface Immobilizations of AlGaN/GaN High Electron Mobility Transistor Based Sensors. <i>ECS Transactions</i> , <b>2010</b> , 33, 3-22	1	5
299	Ti/Au Ohmic contacts to indium zinc oxide thin films on paper substrates. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2010</b> , 28, L43-L46	1.3	4
298	Reverse gate bias-induced degradation of AlGaN/GaN high electron mobility transistors. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2010</b> , 28, 1044-1047	1.3	19
297	Detection of an endocrine disrupter biomarker, vitellogenin, in largemouth bass serum using AlGaN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 013701	3.4	14
296	Effect of neutron irradiation on electrical and optical properties of InGaN/GaN light-emitting diodes. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , <b>2010</b> , 28, 27-2	<b>3</b> .3	24
295	Degradation of 150 nm mushroom gate InAlAs/InGaAs metamorphic high electron mobility transistors during dc stressing and thermal storage. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> <b>2010</b> , 28, 365-370	1.3	4

		Fan	n Ren
294	Isolation blocking voltage of nitrogen ion-implanted AlGaN/GaN high electron mobility transistor structure. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 262116	3.4	43
293	Wireless Detection System for Glucose and pH Sensing in Exhaled Breath Condensate Using AlGaN/GaN High Electron Mobility Transistors. <i>IEEE Sensors Journal</i> , <b>2010</b> , 10, 64-70	4	33
292	TiAlNiAu contacts for ultrathin AlN/GaN high electron mobility transistor structures. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 084513	2.5	3
291	Effect of humidity on hydrogen sensitivity of Pt-gated AlGaN/GaN high electron mobility transistor based sensors. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 232106	3.4	30
290	Low-voltage indium gallium zinc oxide thin film transistors on paper substrates. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 053510	3.4	68
289	Recent advances in wide bandgap semiconductor biological and gas sensors. <i>Progress in Materials Science</i> , <b>2010</b> , 55, 1-59	42.2	212
288	Long-term stability study of botulinum toxin detection with AlGaN/GaN high electron mobility transistor based sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 146, 349-352	8.5	17
287	Normally-on/off AlN/GaN high electron mobility transistors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2010</b> , 7, 2415-2418		5
286	Effect of gate orientation on dc characteristics of Si-doped, nonpolar AlGaN/GaN metal-oxide semiconductor high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 082110	3.4	11
285	Fast detection of a protozoan pathogen, Perkinsus marinus, using AlGaN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 243901	3.4	24
284	Improved hydrogen detection sensitivity in N-polar GaN Schottky diodes. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 212108	3.4	48
283	High sensitivity of hydrogen sensing through N-polar GaN Schottky diodes. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1202, 178		
282	A Comprehensive Approach to HEMT Reliability Testing. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1195, 13		1
281	Pressure Sensing With PVDF Gated AlGaN/GaN High Electron Mobility Transistor. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1202, 156		
280	High mobility InGaZnO4 thin-film transistors on paper. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 072103	3.4	78
279	Environmental stability of candidate dielectrics for GaN-based device applications. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 074105	2.5	6
278	GaAs HEMT Reliability and Degradation Mechanisms after Long Term Stress Testing. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1195, 161		
277	Chloride Ion Detection by InN Gated AlGaN/GaN High Electron Mobility Transistors. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1202, 170		

# (2008-2009)

276	Recent Advances in Wide Bandgap Semiconductor Biological and Gas Sensors. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1202, 138		O	
275	Fast detection of Perkinsus marinus, a prevalent pathogen of oysters and clams from sea waters. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1202, 220			
274	Growth and Characterization of GaN Nanowires for Hydrogen Sensors. <i>Journal of Electronic Materials</i> , <b>2009</b> , 38, 490-494	1.9	37	
273	Development of enhancement mode AlN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 263505	3.4	43	
272	Minipressure sensor using AlGaN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 043903	3.4	16	
271	REVIEW OF RECENT ADVANCES IN TRANSITION AND LANTHANIDE METAL <b>D</b> OPED GaN AND ZnO. <i>Chemical Engineering Communications</i> , <b>2009</b> , 196, 1030-1053	2.2	53	
270	Low-resistance smooth-surface Ti/Al/Cr/Mo/Au n-type Ohmic contact to AlGaN/GaN heterostructures. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 243502	3.4	15	
269	Materials and Process Development for ZnMgO/ZnO Light-Emitting Diodes. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2008</b> , 14, 1048-1052	3.8	14	
268	Carrier concentration dependence of TiAu specific contact resistance on n-type amorphous indium zinc oxide thin films. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 122102	3.4	30	
267	Conformable coating of SiO2 on hydrothermally grown ZnO nanorods. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 233111	3.4	6	
266	Microstructure of InN quantum dots grown on AlN buffer layers by metal organic vapor phase epitaxy. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 162103	3.4	3	
265	Electrical detection of biomaterials using AlGaN/GaN high electron mobility transistors. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 031101	2.5	101	
264	Migration and luminescence enhancement effects of deuterium in ZnOInCdO quantum wells. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 032103	3.4	10	
263	Residual strain in ZnO nanowires grown by catalyst-free chemical vapor deposition on GaN/sapphire (0001). <i>Applied Physics Letters</i> , <b>2008</b> , 92, 203110	3.4	15	
262	Aging and Stability of GaN High Electron Mobility Transistors and Light-Emitting Diodes With \$hbox{TiB}_{2}\$- and Ir-Based Contacts. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2008</b> , 8, 272-276	1.6	7	
261	AlGaN/GaN High Electron Mobility Transistors Irradiated with 17 MeV Protons. <i>Journal of the Electrochemical Society</i> , <b>2008</b> , 155, H513	3.9	19	
<b>2</b> 60	High Temperature Stable Contacts for GaN HEMTs and LEDs. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1108, 1			
259	Botulinum toxin detection using AlGaN <b>G</b> aN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 262101	3.4	34	

258	Dependence of Zn1MgxO:P film properties on magnesium concentration. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2008</b> , 26, 968		3
257	CO2 detection using polyethylenimine/starch functionalized AlGaN <b>G</b> aN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 232102	3.4	39
256	Enzyme-based lactic acid detection using AlGaNtaN high electron mobility transistors with ZnO nanorods grown on the gate region. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 042114	3.4	46
255	Room temperature hydrogen detection using Pd-coated GaN nanowires. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 072109	3.4	84
254	Dielectric passivation effects on ZnO light emitting diodes. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 112101	3.4	35
253	c-erbB-2 sensing using AlGaNtaN high electron mobility transistors for breast cancer detection. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 192103	3.4	49
252	High performance indium gallium zinc oxide thin film transistors fabricated on polyethylene terephthalate substrates. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 082102	3.4	101
251	Low-temperature-fabricated InGaZnO4 thin film transistors on polyimide clean-room tape. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 252103	3.4	38
250	Toward conductive traces: Dip Pen Nanolithography of silver nanoparticle-based inks. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 143105	3.4	41
249	Selective-hydrogen sensing at room temperature with Pt-coated InN nanobelts. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 202109	3.4	31
248	Phosphorus doped ZnO light emitting diodes fabricated via pulsed laser deposition. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 112108	3.4	80
247	Detection of chloride ions using an integrated AgAgCl electrode with AlGaNGaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 193903	3.4	28
246	Synthesis and microstructure of vertically aligned ZnO nanowires grown by high-pressure-assisted pulsed-laser deposition. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 6925-6932	4.3	68
245	Synthesis and characterization of single crystalline SnO2 nanorods by high-pressure pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 91, 29-32	2.6	14
244	Investigation of electrical and optical properties of ZnO thin films grown with O2/O3 gas mixture. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 91, 251-254	2.6	1
243	Pulsed laser deposition of high-quality ZnO films using a high temperature deposited ZnO buffer layer. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 91, 255-259	2.6	8
242	Role of Gate Oxide in AlGaN/GaN High-Electron-Mobility Transistor pH Sensors. <i>Journal of Electronic Materials</i> , <b>2008</b> , 37, 550-553	1.9	29
241	Microwave Performance of AlGaN/GaN High-Electron-Mobility Transistors on Si/SiO2/Poly-SiC Substrates. <i>Journal of Electronic Materials</i> , <b>2008</b> , 37, 384-387	1.9	3

# (2007-2008)

240	Ir Diffusion Barriers in Ni/Au Ohmic Contacts to p-Type CuCrO2. <i>Journal of Electronic Materials</i> , <b>2008</b> , 37, 161-166	1.9	1
239	ZnO and Related Materials for Sensors and Light-Emitting Diodes. <i>Journal of Electronic Materials</i> , <b>2008</b> , 37, 1426-1432	1.9	48
238	High temperature Ohmic contacts to p-type GaN for use in light emitting applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 2241-2243		
237	Acceptor state formation in arsenic-doped ZnO films grown using ozone. <i>Physica Status Solidi (A)</i> Applications and Materials Science, <b>2008</b> , 205, 1647-1652	1.6	2
236	Properties of post-annealed ZnO films grown with O3. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2008</b> , 205, 1631-1635	1.6	
235	Low Hg(II) ion concentration electrical detection with AlGaN/GaN high electron mobility transistors. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 134, 386-389	8.5	45
234	Wireless hydrogen sensor network using AlGaN/GaN high electron mobility transistor differential diode sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 135, 188-194	8.5	43
233	Effect of bias voltage polarity on hydrogen sensing with AlGaN/GaN Schottky diodes. <i>Applied Surface Science</i> , <b>2008</b> , 255, 2524-2526	6.7	26
232	The control of cell adhesion and viability by zinc oxide nanorods. <i>Biomaterials</i> , <b>2008</b> , 29, 3743-3749	15.6	166
231	Polydiacetylene-based selective NH3 gas sensor using Sc2O3/GaN structures. <i>Physica Status Solidi</i> (A) Applications and Materials Science, <b>2007</b> , 204, 3556-3561	1.6	13
230	Simple fabrication of nanoporous films on ZnO for enhanced light emission. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2007</b> , 204, 3417-3422	1.6	
229	Effect of Proton Irradiation on Interface State Density in Sc2O3/GaN and Sc2O3/MgO/GaN Diodes. Journal of Electronic Materials, <b>2007</b> , 36, 519-523	1.9	7
228	Improved Long-Term Thermal Stability At 350°C Of TiB2Based Ohmic Contacts On AlGaN/GaN High Electron Mobility Transistors. <i>Journal of Electronic Materials</i> , <b>2007</b> , 36, 379-383	1.9	1
227	Band Offsets in the Mg0.5Ca0.5O/GaN Heterostructure System. <i>Journal of Electronic Materials</i> , <b>2007</b> , 36, 368-372	1.9	8
226	Effect of Cryogenic Temperature Deposition of Various Metal Contacts on Bulk Single-Crystal n-Type ZnO. <i>Journal of Electronic Materials</i> , <b>2007</b> , 36, 488-493	1.9	3
225	Annealing and Measurement Temperature Dependence of W2B- and W2B5-Based Rectifying Contacts to p-GaN. <i>Journal of Electronic Materials</i> , <b>2007</b> , 36, 384-390	1.9	7
224	Thermal Stability of Nitride-Based Diffusion Barriers for Ohmic Contacts to n-GaN. <i>Journal of Electronic Materials</i> , <b>2007</b> , 36, 1662-1668	1.9	1
223	ZnO-BASED NANOWIRES. <i>Nano</i> , <b>2007</b> , 02, 201-211	1.1	5

222	NiAu Ohmic contacts to p-type Mg-doped CuCrO2 epitaxial layers. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 147	213041	16
221	Improved long-term thermal stability of InGaNtan multiple quantum well light-emitting diodes using TiB2- and Ir-based p-Ohmic contacts. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 242103	3.4	15
220	Cathodoluminescence studies of carrier concentration dependence for the electron-irradiation effects in p-GaN. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 172111	3.4	13
219	Electrical detection of kidney injury molecule-1 with AlGaNGaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 222101	3.4	43
218	Functionalizing Zn- and O-terminated ZnO with thiols. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 104514	2.5	93
217	Incorporation and drift of hydrogen at low temperatures in ZnO. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 0921	154	9
216	Prostate specific antigen detection using AlGaN <b>G</b> aN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 112106	3.4	80
215	Behavior of rapid thermal annealed ZnO:P films grown by pulsed laser deposition. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 104904	2.5	27
214	Ir/Au Ohmic Contacts on Bulk, Single-Crystal n-Type ZnO. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1000, 1		
213	Selective and nonselective wet etching of Zn0.9Mg0.1O/ZnO. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 516-519	1.9	16
213		1.9	16
	35, 516-519  Annealing temperature dependence of TiB2 schottky barrier contacts on n-GaN. <i>Journal of</i>		
212	35, 516-519  Annealing temperature dependence of TiB2 schottky barrier contacts on n-GaN. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 658-662  Comparison of laser-wavelength operation for drilling of via holes in AlGaN/GaN HEMTs on SiC	1.9	
212	Annealing temperature dependence of TiB2 schottky barrier contacts on n-GaN. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 658-662  Comparison of laser-wavelength operation for drilling of via holes in AlGaN/GaN HEMTs on SiC substrates. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 675-679  Selective dry etching of (Sc2O3)x(Ga2O3)1\( \text{M} \) gate dielectrics and surface passivation films on GaN.	1.9	7
212 211 210	Annealing temperature dependence of TiB2 schottky barrier contacts on n-GaN. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 658-662  Comparison of laser-wavelength operation for drilling of via holes in AlGaN/GaN HEMTs on SiC substrates. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 675-679  Selective dry etching of (Sc2O3)x(Ga2O3)1 gate dielectrics and surface passivation films on GaN. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 680-684  Si-diffused GaN for enhancement-mode GaN mosfet on si applications. <i>Journal of Electronic</i>	1.9	1 7 1
212 211 210 209	Annealing temperature dependence of TiB2 schottky barrier contacts on n-GaN. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 658-662  Comparison of laser-wavelength operation for drilling of via holes in AlGaN/GaN HEMTs on SiC substrates. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 675-679  Selective dry etching of (Sc2O3)x(Ga2O3)1½ gate dielectrics and surface passivation films on GaN. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 680-684  Si-diffused GaN for enhancement-mode GaN mosfet on si applications. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 685-690  Electrical transport properties of single GaN and InN nanowires. <i>Journal of Electronic Materials</i> ,	1.9 1.9 1.9	1 7 1
212 211 210 209 208	Annealing temperature dependence of TiB2 schottky barrier contacts on n-GaN. <i>Journal of Electronic Materials</i> , 2006, 35, 658-662  Comparison of laser-wavelength operation for drilling of via holes in AlGaN/GaN HEMTs on SiC substrates. <i>Journal of Electronic Materials</i> , 2006, 35, 675-679  Selective dry etching of (Sc2O3)x(Ga2O3)1½ gate dielectrics and surface passivation films on GaN. <i>Journal of Electronic Materials</i> , 2006, 35, 680-684  Si-diffused GaN for enhancement-mode GaN mosfet on si applications. <i>Journal of Electronic Materials</i> , 2006, 35, 685-690  Electrical transport properties of single GaN and InN nanowires. <i>Journal of Electronic Materials</i> , 2006, 35, 738-743	1.9 1.9 1.9	1 7 1 14 60

# (2005-2006)

204	Development of Thin Film and Nanorod ZnO-Based LEDs and Sensors. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 957, 1		1
203	Electrical Detection of Deoxyribonucleic Acid Hybridization With AlGaN/GaN High Electron Mobility Transistors. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 955, 1		4
202	Alternative Magnesium Calcium Oxide Gate Dielectric for Silicon Carbide MOS Application. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 911, 3		4
201	Effect of Cryogenic Temperature Deposition of Various Metal Contacts to Bulk, Single-Crystal n-type ZnO. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 957, 1		
200	Schottky barrier height of boride-based rectifying contacts to p-GaN. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 132110	3.4	17
199	Electrical detection of deoxyribonucleic acid hybridization with AlGaNGaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 122102	3.4	80
198	Band offsets in the Sc2O3©aN heterojunction system. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 142115	3.4	26
197	Epitaxial growth of Sc2O3 films on GaN. Applied Physics Letters, <b>2006</b> , 89, 092117	3.4	23
196	Determination of MgOtaN heterojunction band offsets by x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 042113	3.4	46
195	Band-edge electroluminescence from N+-implanted bulk ZnO. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 102107	3.4	38
195 194	Band-edge electroluminescence from N+-implanted bulk ZnO. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 102107.  Implantation temperature dependence of Si activation in AlGaN. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 1821.		38 7
194	Implantation temperature dependence of Si activation in AlGaN. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 1821  Robust detection of hydrogen using differential AlGaNGaN high electron mobility transistor	06.4	7
194 193	Implantation temperature dependence of Si activation in AlGaN. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 1821  Robust detection of hydrogen using differential AlGaNGaN high electron mobility transistor sensing diodes. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 242111	0 <u>6</u> .4	7
194 193 192	Implantation temperature dependence of Si activation in AlGaN. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 1821  Robust detection of hydrogen using differential AlGaNGaN high electron mobility transistor sensing diodes. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 242111  ITOTIAu Ohmic contacts on n-type ZnO. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 182101  Measurement of external stress on bulk GaN. <i>Physica Status Solidi (A) Applications and Materials</i>	<b>3.4 3.4</b>	7 42 14
194 193 192	Implantation temperature dependence of Si activation in AlGaN. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 1821  Robust detection of hydrogen using differential AlGaNtaN high electron mobility transistor sensing diodes. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 242111  ITOTiau Ohmic contacts on n-type ZnO. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 182101  Measurement of external stress on bulk GaN. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 2393-2396  Immobilization of heterogeneous polydiacetylene supramolecules on SiC substrate for cyclodextrin	0 <b>6</b> .4 3.4 3.4	7 42 14 4
194 193 192 191	Implantation temperature dependence of Si activation in AlGaN. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 1821  Robust detection of hydrogen using differential AlGaNGaN high electron mobility transistor sensing diodes. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 242111  ITOTIAU Ohmic contacts on n-type ZnO. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 182101  Measurement of external stress on bulk GaN. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 2393-2396  Immobilization of heterogeneous polydiacetylene supramolecules on SiC substrate for cyclodextrin sensors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, R79-R81	0 <b>6</b> .4  3.4  1.6	7 42 14 4

186	Low-resistance Au and AuNiAu Ohmic contacts to p-ZnMgO. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 071906	3.4	4
185	Comparison of low-temperature GaN, SiO2, and SiNx as gate insulators on AlGaNtaN heterostructure field-effect transistors. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 064506	2.5	16
184	Hydrogen sensing at room temperature with Pt-coated ZnO thin films and nanorods. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 222106	3.4	244
183	Comparison of gate and drain current detection of hydrogen at room temperature with AlGaN <b>G</b> aN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 172105	3.4	48
182	Measurement of Zn0.95Cd0.05O\(\textit{D}\)nO (0001) heterojunction band offsets by x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 192106	3.4	52
181	Transport properties of InN nanowires. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 093112	3.4	60
180	Detection of CO using bulk ZnO Schottky rectifiers. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 259-261	2.6	7
179	ZnO/cubic (Mg,Zn)O radial nanowire heterostructures. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 263-266	2.6	16
178	UV photoresponse of single ZnO nanowires. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 497-499	2.6	98
177	Hydrogen and ozone gas sensing using multiple ZnO nanorods. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 1029-1032	2.6	91
176	Detection of hydrogen at room temperature with catalyst-coated multiple ZnO nanorods. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 81, 1117-1119	2.6	68
175	Comparison of MOS and Schottky W/PttaN diodes for hydrogen detection. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 104, 232-236	8.5	63
174	AIN-based dilute magnetic semiconductors. <i>Journal of Electronic Materials</i> , <b>2005</b> , 34, 365-369	1.9	10
173	Design of edge termination for GaN power Schottky diodes. <i>Journal of Electronic Materials</i> , <b>2005</b> , 34, 370-374	1.9	36
172	Proton irradiation of ZnO schottky diodes. <i>Journal of Electronic Materials</i> , <b>2005</b> , 34, 395-398	1.9	19
171	Fabrication approaches to ZnO nanowire devices. <i>Journal of Electronic Materials</i> , <b>2005</b> , 34, 404-408	1.9	17
170	Hydrogen sensors based on Sc2O3/AlGaN/GaN high electron mobility transistors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 2672-2675		7
169	AlGaN/GaN high electron mobility transistor structures for pressure and pH sensing. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 2684-2687		7

# (2004-2005)

168	GaN enhancement mode metal-oxide semiconductor field effect transistors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2005</b> , 2, 2668-2671		3
167	Role of Ion Energy and Flux on Inductively Coupled Plasma Etch Damage in InGaN/GaN Multi Quantum Well Light Emitting Diodes. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, 7234-7237	1.4	9
166	Characterization of bulk GaN rectifiers for hydrogen gas sensing. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2005</b> , 23, 2373		31
165	Spin injection and spin loss in GaMnN/InGaN Light-Emitting Diodes. <i>AIP Conference Proceedings</i> , <b>2005</b> ,	Ο	2
164	Investigation of a GaMnN/GaN/InGaN structure for spin LED. AIP Conference Proceedings, 2005,	О	4
163	Pt-coated InN nanorods for selective detection of hydrogen at room temperature. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2005</b> , 23, 1891		52
162	AlGaN/GaN-based diodes and gateless HEMTs for gas and chemical sensing. <i>IEEE Sensors Journal</i> , <b>2005</b> , 5, 677-680	4	24
161	Low-resistance ohmic contacts to p-ZnMgO grown by pulsed-laser deposition. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 192103	3.4	25
160	Detection of halide ions with AlGaN©aN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 173502	3.4	30
159	High dose Co-60 gamma irradiation of InGaN quantum well light-emitting diodes. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 212107	3.4	31
158	pH measurements with single ZnO nanorods integrated with a microchannel. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 112105	3.4	127
157	Efficient spin relaxation in InGaNtaN and InGaNtaMnN quantum wells: An obstacle to spin detection. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 192107	3.4	17
156	Effect of inductively coupled plasma damage on performance of GaNIhGaN multiquantum-well light-emitting diodes. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 102104	3.4	24
155	Capacitance pressure sensor based on GaN high-electron-mobility transistor-on-Si membrane. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 253502	3.4	37
154	Electrical characteristics of GaN implanted with Si+ at elevated temperatures. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 112108	3.4	6
153	Activation characteristics of ion-implanted Si+ in AlGaN. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 192102	3.4	14
152	W2B based High Thermal Stability Ohmic Contacts to n-GaN. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 892, 307		
151	Contacts to p-type ZnMgO. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1904-1906	3.4	45

150	Sensitivity of Pt/ZnO Schottky diode characteristics to hydrogen. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1698	-3.400	38
149	Zn0.9Mg0.1OInOpfi junctions grown by pulsed-laser deposition. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 1169-	-3.1471	81
148	Comparison of stability of WSiX/SiC and Ni/SiC Schottky rectifiers to high dose gamma-ray irradiation. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 371-373	3.4	22
147	Carrier concentration dependence of Ti/Al/Pt/Au contact resistance on n-type ZnO. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 544-546	3.4	67
146	Hydrogen-induced reversible changes in drain current in Sc2O3/AlGaN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4635-4637	3.4	23
145	MgO/p-GaN enhancement mode metal-oxide semiconductor field-effect transistors. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2919-2921	3.4	93
144	ZnO Spintronics and Nanowire Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 829, 361		
143	Metal-oxide Semiconductor Field-effect Transistors using Single ZnO Nanowire. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 829, 350		
142	Pt/Au and W/Pt/Au Schottky Contacts to Bulk n-ZnO <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 829, 43		
141	Electrical and luminescent properties and the spectra of deep centers in GaMnN/InGaN light-emitting diodes. <i>Journal of Electronic Materials</i> , <b>2004</b> , 33, 241-247	1.9	2
140	Lateral schottky GaN rectifiers formed by Si+ ion implantation. <i>Journal of Electronic Materials</i> , <b>2004</b> , 33, 426-430	1.9	2
139	Optical and electrical characterization of (Ga,Mn)N/InGaN multiquantum well light-emitting diodes. <i>Journal of Electronic Materials</i> , <b>2004</b> , 33, 467-471	1.9	8
138	SiC via holes by laser drilling. <i>Journal of Electronic Materials</i> , <b>2004</b> , 33, 477-480	1.9	23
137	Effects of high dose proton irradiation on the electrical performance of ZnO Schottky diodes. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, R79-R82		12
136	Novel insulators for gate dielectrics and surface passivation of GaN-based electronic devices. <i>Materials Science and Engineering Reports</i> , <b>2004</b> , 44, 151-184	30.9	46
135	Temperature-dependent characteristics of Pt Schottky contacts on n-type ZnO. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2835-2837	3.4	77
134	Pt᠒nO nanowire Schottky diodes. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3107-3109	3.4	116
133	Comparison of Ir and Ni-based Ohmic contacts for AlGaN/GaN high electron mobility transistors.  Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B,  Microelectronics Processing and Phenomena, 2004, 22, 619		13

#### (2003-2004)

132	Annealing temperature stability of Ir and Ni-based Ohmic contacts on AlGaNLIAN high electron mobility transistors. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2004</b> , 22, 2635		6	
131	Specific contact resistance of Ti/Al/Pt/Au ohmic contacts to phosphorus-doped ZnO thin films. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, <b>2004</b> , 22, 171		12	
130	Properties of Ir-based Ohmic contacts to AlGaN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1495-1497	3.4	22	
129	Depletion-mode ZnO nanowire field-effect transistor. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2274-2276	3.4	208	
128	Electrical transport properties of single ZnO nanorods. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2002-2004	3.4	138	
127	AlGaN/GaN-based metalBxideBemiconductor diode-based hydrogen gas sensor. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1123-1125	3.4	80	
126	Pressure-induced changes in the conductivity of AlGaNtan high-electron mobility-transistor membranes. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2962-2964	3.4	97	
125	Improved PtAu and WPtAu Schottky contacts on n-type ZnO using ozone cleaning. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 5133-5135	3.4	60	
124	Thermal degradation of electrical properties and morphology of bulk single-crystal ZnO surfaces. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3468-3470	3.4	35	
123	GaN AND AlGaN HIGH VOLTAGE POWER RECTIFIERS <b>2003</b> , 125-171			
122	Novel Oxides for Passivating AlGaN/GaN HEMT and Providing Low Surface State Densities at Oxide/GaN Interface. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 764, 1		1	
121	GaN and other materials for semiconductor spintronics. <i>Journal of Electronic Materials</i> , <b>2003</b> , 32, 288-2	<b>97</b> .9	25	
120	Analysis of the mixing effect in InAlAs/InGaAs metal-semiconductor-metal photodetectors. <i>Microwave and Optical Technology Letters</i> , <b>2003</b> , 39, 108-112	1.2	1	
119	Room temperature ferromagnetism in GaMnN and GaMnP. <i>Physica Status Solidi A</i> , <b>2003</b> , 195, 222-227		18	
118	Effects of surface treatments on isolation currents in AlGaN/GaN high-electron-mobility transistors. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4178-4180	3.4	18	
117	Fabrication and characteristics of high-speed implant-confined index-guided lateral-current 850-nm vertical cavity surface-emitting lasers. <i>Journal of Lightwave Technology</i> , <b>2003</b> , 21, 1020-1031	4	8	
116	Improved morphology for ohmic contacts to AlGaN/GaN high electron mobility transistors using WSix- or W-based metallization. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3910-3912	3.4	32	
115	Deep traps in unpassivated and Sc2O3-passivated AlGaN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 2608-2610	3.4	22	

114	Mixing characteristics of InGaAs metalsemiconductorshetal photodetectors with Schottky enhancement layers. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3814-3816	3.4	4
113	AlGaN/GaN Structures Grown by HVPE: Growth and Characterization. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 764, 1		7
112	Growth of Scandium Magnesium Oxide on GaN. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 786, 861		
111	The Oxide/Nitride Interface: a study for gate dielectrics and field passivation. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 786, 851		
110	Thermal stability of WSix and W Schottky contacts on n-GaN. Applied Physics Letters, 2003, 82, 3263-32	653.4	20
109	Hydrogen incorporation and diffusivity in plasma-exposed bulk ZnO. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 385-387	3.4	186
108	160-A bulk GaN Schottky diode array. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 3192-3194	3.4	13
107	Activation kinetics of implanted Si+ in GaN and application to fabricating lateral Schottky diodes. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 4987-4989	3.4	8
106	DILUTE MAGNETIC GaN, SIC AND RELATED SEMICONDUCTORS <b>2003</b> , 477-510		О
105	HVPE-GROWN AlGaN/GaN HEMTs. Materials Research Society Symposia Proceedings, 2003, 764, 1		1
104	Breakdown voltage and reverse recovery characteristics of free-standing GaN Schottky rectifiers. <i>IEEE Transactions on Electron Devices</i> , <b>2002</b> , 49, 32-36	2.9	76
103	High-energy proton irradiation effects on AlGaN/GaN high-electron mobility transistors. <i>Journal of Electronic Materials</i> , <b>2002</b> , 31, 437-441	1.9	41
102	Optical and electrical properties of GaMnN films grown by molecular-beam epitaxy. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 4989-4993	2.5	41
101	Edge termination design and simulation for bulk GaN rectifiers. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2002</b> , 20, 2169		14
100	Effects of Ar inductively coupled plasma exposure on 4H-SiC Schottky rectifiers. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2002</b> , 20, 2299		2
99	Surface Passivation of AlGaN terminated and GaN Terminated HEMT Structures Studied by XPS. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 743, L11.40.1		
98	Effect of Oxygen Pressure on Magnesium Oxide Dielectrics Grown on Gan by Plasma Assisted Gas Source Molecular Beam Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 743, L3.60.1		
97	Effects of Sc2O3 and MgO passivation layers on the output power of AlGaN/GaN HEMTs. <i>IEEE Electron Device Letters</i> , <b>2002</b> , 23, 505-507	4.4	42

# (2001-2002)

96	Influence of 60Co Fays on dc performance of AlGaN/GaN high electron mobility transistors. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 604-606	3.4	67
95	Magnetic properties of n-GaMnN thin films. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 3964-3966	3.4	310
94	High-Power GaN Electronic Devices. Critical Reviews in Solid State and Materials Sciences, 2002, 27, 1-71	10.1	26
93	Deterministic Synthesis of ZnO Nanorods. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 728, 3151		
92	Electrical properties and spectra of deep centers in GaN p-i-n rectifier structures. <i>Journal of Electronic Materials</i> , <b>2001</b> , 30, 147-155	1.9	
91	Comparison of F2 plasma chemistries for deep etching of SiC. <i>Journal of Electronic Materials</i> , <b>2001</b> , 30, 202-206	1.9	19
90	Gadolinium Oxide and Scandium Oxide: Gate Dielectrics for GaN MOSFETs. <i>Physica Status Solidi A</i> , <b>2001</b> , 188, 239-242		74
89	. IEEE Transactions on Electron Devices, <b>2001</b> , 48, 407-411	2.9	64
88	Simulation of npn and pnp AlGaN/GaN heterojunction bipolar transistors performances: limiting factors and optimum design. <i>IEEE Transactions on Electron Devices</i> , <b>2001</b> , 48, 427-432	2.9	12
87	Lateral AlxGa1NN power rectifiers with 9.7 kV reverse breakdown voltage. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 823-825	3.4	85
86	High density plasma via hole etching in SiC. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2001</b> , 19, 1878-1881	2.9	27
85	Vertical and lateral GaN rectifiers on free-standing GaN substrates. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1555-1557	3.4	53
84	Role of annealing conditions and surface treatment on ohmic contacts to p-GaN and p-Al0.1Ga0.9N/GaN superlattices. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 3636-3638	3.4	29
83	Electrical effects of plasma enhanced chemical vapor deposition of SiNx on GaAs Schottky rectifiers. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 4800-4804	2.5	2
82	High-speed modulation of 850-nm intracavity contacted shallow implant-apertured vertical-cavity surface-emitting lasers. <i>IEEE Photonics Technology Letters</i> , <b>2001</b> , 13, 924-926	2.2	9
81	Electrical Properties of GaN/InGaN MQW Heterojunction Diodes as Affected by Various Plasma Treatments. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 693, 126		
80	Electrical Properties of n-GaN/p-SiC and n-AlGaN/p-SiC Heterojunction Diodes. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 693, 132		
79	Electrical Properties of n-GaN/p-SiC and n-AlGaN/p-SiC Heterojunction Diodes. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 693, 57		

78	Gadolinium Oxide Gate Dielectrics for GaN MOSFETs. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 680, 1		1
77	Electrical Characterization of GaN Metal Oxide Semiconductor Diodes Using MgO as the Gate Oxide. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 693, 180		
76	Proton Irradiation Effects on Scandium Oxide/Gallium Nitride MOS Diodes. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 693, 186		
75	Electrical Characterization of GaN Metal Oxide Semiconductor Diode using Sc2O3 as the Gate Oxide. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 693, 236		2
74	Temperature Dependence and Current Transport Mechanisms in AlxGa1⊠N Schottky Rectifiers. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 622, 271		
73	GaN pnp Bipolar Junction Transistors Operated to 250°LC. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 622, 321		
72	p-GaAs Base Regrowth for GaN HBTs and BJTs. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 622, 6131		
71	Device Processing for GaN High Power Electronics. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 622, 711		
70	Inductively Coupled High-Density Plasma-Induced Etch Damage of GaN MESFETs. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 622, 751		2
69	Current Gain Simulation of Npn AlGaN/GaN Heterojunction Bipolar Transistors. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 622, 331		
68	GaN Electronics. Advanced Materials, 2000, 12, 1571-1580	24	186
67	Fabrication and performance of GaN electronic devices. <i>Materials Science and Engineering Reports</i> , <b>2000</b> , 30, 55-212	30.9	373
66	High voltage GaN Schottky rectifiers. IEEE Transactions on Electron Devices, 2000, 47, 692-696	2.9	67
65	GaN n- and p-type Schottky diodes: Effect of dry etch damage. <i>IEEE Transactions on Electron Devices</i> , <b>2000</b> , 47, 1320-1324	2.9	58
64	Improved Ni based composite Ohmic contact to n-SiC for high temperature and high power device applications. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 2652-2657	2.5	51
63	Plasma damage in p-GaN. <i>Journal of Electronic Materials</i> , <b>2000</b> , 29, 256-261	1.9	30
62	Dry etch selectivity of Gd2O3 to GaN and AlN. <i>Journal of Electronic Materials</i> , <b>2000</b> , 29, 285-290	1.9	4
61	Comparison of Implant Isolation Species for GaN Field-effect Transistor Structures. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>2000</b> , 5, 845-851		

# (2000-2000)

60	Surface Conversion Effects in Plasma-Damaged p-GaN. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>2000</b> , 5, 558-569		1
59	High Density Plasma Damage Induced in n-GaN Schottky Diodes Using Cl2/Ar Discharges. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>2000</b> , 5, 831-837		
58	Properties and Effects of Hydrogen in GaN. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>2000</b> , 5, 540-550		6
57	A Review of Dry Etching of GaN and Related Materials. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>2000</b> , 5, 1		148
56	Effect of Mg ionization efficiency on performance of Npn AlGaN/GaN heterojunction bipolar transistors. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 3115-3117	3.4	19
55	Inductively coupled plasma-induced etch damage of GaN p-n junctions. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2000</b> , 18, 1139-1143	2.9	71
54	Al composition dependence of breakdown voltage in AlxGa1NN Schottky rectifiers. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 1767-1769	3.4	45
53	InGaAsN/AlGaAs P-n-p heterojunction bipolar transistor. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 2788-2790	3.4	36
52	Temperature dependence and current transport mechanisms in AlxGa1NN Schottky rectifiers. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 3816-3818	3.4	36
51	Ultradeep, low-damage dry etching of SiC. Applied Physics Letters, 2000, 76, 739-741	3.4	45
50	Contact resistivity and transport mechanisms in W contacts to p- and n-GaN. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 2048-2053	2.5	32
49	High breakdown voltage Au/Pt/GaN Schottky diodes. <i>Journal of Vacuum Science and Technology A:</i> Vacuum, Surfaces and Films, <b>2000</b> , 18, 1135-1138	2.9	15
48	Direct-current characteristics of pnp AlGaN/GaN heterojunction bipolar transistors. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 2943-2945	3.4	23
47	Effect of N2 discharge treatment on AlGaN/GaN high electron mobility transistor ohmic contacts using inductively coupled plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2000</b> , 18, 1149-1152	2.9	11
46	Effect of N2 Plasma Treatments on Dry Etch Damage in n- and p-type GaN. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 639, 3161		
45	Advanced Processing of GaN for Electronic Devices. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>2000</b> , 25, 279-390	10.1	22
44	Gd2O3/GaN metal-oxide-semiconductor field-effect transistor. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 3230-3	32;3;2	89
43	Processing and Device Performance of GaN Power Rectifiers. MRS Internet Journal of Nitride Semiconductor Research, 2000, 5, 838-844		

42	GaN Electronics <b>2000</b> , 12, 1571	1
41	Photoelectrochemical Etching of InxGa1N. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>1999</b> , 4, 691-696	1
40	Luminescence from Erbium-Doped Gallium Nitride Thin Films. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>1999</b> , 4, 926-932	O
39	Damage to IIIIV devices during electron cyclotron resonance chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1999</b> , 17, 2183-2187	3
38	GaN: Processing, defects, and devices. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 1-78	1469
37	UV-photoassisted etching of GaN in KOH. <i>Journal of Electronic Materials</i> , <b>1999</b> , 28, 290-294 1.9	18
36	Photoreflectance study of H2S plasma-passivated GaAs surface. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 1430-1432	19
35	Growth and Device Performance of GaN Schottky Rectifiers. MRS Internet Journal of Nitride Semiconductor Research, <b>1999</b> , 4, 1	18
34	Novel in-situ Ion Bombardment Process for A Thermally Stable (> 800 °C) Plasma Deposited Dielectric. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 573, 183	
33	MBE Growth of Oxides for III <b>N</b> MOSFETs. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 573, 247	4
32	Wet and Dry Etching Characteristics of Electron Beam Deposited SiO and SiO2. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 573, 259	
31	High-Density Plasma-Induced Etch Damage of GaN. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 573, 271	27
30	Selective Dry Etching of the GaN/InN/AlN, GaAs/AlGaAs and GaAs/InGaP Systems. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 573, 281	2
29	Properties and Effects of Hydrogen in GaN. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 595, 1	1
28	High Density Plasma Damage Induced in n-GaN Schottky Diodes Using Cl2/Ar Discharges. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 595, 1	
27	Processing and Device Performance of GaN Power Rectifiers. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 595, 1	
26	Comparison of Implant Isolation Species for GaN Field-Effect Transistor Structures. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 595, 1	1
25	Surface Conversion Effects in Plasma-Damaged p-GaN. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 595, 1	

24	Behavior of W and WSix Contact Metallization on n- and p- Type GaN. MRS Internet Journal of Nitride Semiconductor Research, <b>1999</b> , 4, 684-690		
23	Effect of temperature on Ga2O3(Gd2O3)/GaN metalBxideBemiconductor field-effect transistors. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3893-3895	3.4	199
22	Inductively coupled plasma etching of bulk 6H-SiC and thin-film SiCN in NF3 chemistries. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1998</b> , 16, 2204-2209	2.9	52
21	Hydrogenation and Defect Creation in GaAs-Based Devices During High Density Plasma Processing. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 510, 209		1
20	Growth and Luminescence Properties of III-N:Er Materials Doped During Chemical Beam Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 510, 325		
19	Comparison of Novel Chlorine, Bromine and Iodine Plasma Chemistries for Anisotropic Trench Etching In GaN, InN and Ain. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 512, 501		
18	Low Bias Dry Etching of Sic and Sicn in ICP NF3 Discharges. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 512, 507		
17	Luminescence from Erbium-Doped Gallium Nitride Thin Films. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 537, 1		
16	Behavior of W and WSix Contact Metallization on n- and p-Type GaN. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 537, 1		
15	Photoelectrochemical Etching of InxGal\(\mathbb{B}\)N. Materials Research Society Symposia Proceedings, <b>1998</b> , 537, 1		
14	300°C GaN/AlGaN Heterojunction Bipolar Transistor. MRS Internet Journal of Nitride Semiconductor Research, <b>1998</b> , 3, 1		66
13	Post growth rapid thermal annealing of GaN: The relationship between annealing temperature, GaN crystal quality, and contact-GaN interfacial structure. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 3004-3006	3.4	27
12	Materials Characterization of WSi Contacts to n+-GaN as a Function of Rapid Thermal Annealing Temperatures. <i>Journal of the Electrochemical Society</i> , <b>1997</b> , 144, L275-L277	3.9	26
11	Comparison of dry etch chemistries for SiC. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1997</b> , 15, 885-889	2.9	46
10	Demonstration of enhancement-mode p- and n-channel GaAs MOSFETS with Ga2O3(Gd2O3) As gate oxide. <i>Solid-State Electronics</i> , <b>1997</b> , 41, 1751-1753	1.7	135
9	Silicon nitride encapsulation of sulfide passivated GaAs/AlGaAs microdisk lasers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1995</b> , 13, 642-645	2.9	15
8	Wet Chemical Etching of Al0.5In0.5 P. Journal of the Electrochemical Society, 1995, 142, L100-L102	3.9	15
	Low bias electron cyclotron resonance plasma etching of GaN, AlN, and InN. Applied Physics Letters,		116

		Fa	n Ren
6	Surface recombination velocities on processed InGaP p-n junctions. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 3610-3612	3.4	8
5	GaAs/AlGaAs quantum well and modulation-doped heterostructures grown by organometallic vapor phase epitaxy using trimethylamine alane. <i>Applied Physics Letters</i> , <b>1991</b> , 59, 1975-1977	3.4	12
4	Growth and characterization of CdZnS thin film buffer layers by chemical bath deposition		3
3	Effect of electromigration on mechanical behavior of solder joints		3
2	Role of Electric Field, Defects and Radiation Damage in Determining Reliability in AlGaN/GaN High Electron Mobility Transistors553-566		
1	Effects of Downstream Plasma Exposure on EGa2O3 Rectifiers. ECS Journal of Solid State Science and Technology,	2	1