Jiming Bian

List of Publications by Year in Descending Order

143 papers	2,731 citations	27 h-index	46 g-index
152 ext. papers	3,091 ext. citations	5.3 avg, IF	4.79 L-index

#	Paper	IF	Citations
143	Modular Perovskite Solar Cells with Cs0.05(FA0.85MA0.15)0.95Pb(I0.85Br0.15)3 Light-Harvesting Layer and Graphene Electrode. *Journal of Electronic Materials*, **2022**, 51, 2381-2389	1.9	1
142	Asymmetric Organic Diammonium Salt Buried in SnO2 Layer Enables Fast Carrier Transfer and Interfacial Defects Passivation for Efficient Perovskite Solar Cells. *Chemical Engineering Journal*, **2022**, 136291	14.7	13
141	Critical Role of Organoamines in the Irreversible Degradation of a Metal Halide Perovskite Precursor Colloid: Mechanism and Inhibiting Strategy. *ACS Energy Letters*, **2022**, 7, 481-489	20.1	4
140	Excellent Carrier Transport Property of Hybrid Perovskites Sustained under High Pressures. *ACS Energy Letters*, **2022**, 7, 154-161	20.1	2
139	Ti1 raphene single-atom material for improved energy level alignment in perovskite solar cells. *Nature Energy*, **2021**, 6, 1154-1163	62.3	14
138	Efficient Planar Perovskite Solar Cells with Carbon Quantum Dot-Modified spiro-MeOTAD as a Composite Hole Transport Layer. *ACS Applied Materials & Interfaces*, **2021**, 13, 56265-56272	9.5	4
137	PbI 3D network transporting model for the charge separation mechanism of PbSe detectors.. *RSC Advances*, **2021**, 11, 36895-36900	3.7	2
136	Stable and Efficient Methylammonium-, Cesium-, and Bromide-Free Perovskite Solar Cells by In-Situ Interlayer Formation. *Advanced Functional Materials*, **2021**, 31, 2007520	15.6	19
135	Low-temperature sprayed carbon electrode in modular HTL-free perovskite solar cells: a comparative study on the choice of carbon sources. *Journal of Materials Chemistry C*, **2021**, 9, 3546-3554	7.1	8
134	Towards High-Performance Semitransparent Organic Photovoltaics: Dual-Functional -Type Soft Interlayer.. *ACS Nano*, **2021**,	16.7	1
133	Growth and Characteristics of n-VO2/p-GaN based Heterojunctions. *Journal Wuhan University of Technology, Materials Science Edition*, **2020**, 35, 342-347	1	3
132	Carbon-based HTL-free modular perovskite solar cells with improved contact at perovskite/carbon interfaces. *Journal of Materials Chemistry C*, **2020**, 8, 9262-9270	7.1	16
131	Degradation mechanism of flexible perovskite solar cells: Investigated by tracking of the heterojunction property. *Materials Research Bulletin*, **2020**, 123, 110696	5.1	5
130	Triple-Cation Perovskite Resistive Switching Memory with Enhanced Endurance and Retention. *ACS Applied Electronic Materials*, **2020**, 2, 3695-3703	4	6
129	Real-Time Dynamic Observation of a Thermal and Electrical Coeffect on the Interfacial Evolution of Hybrid Perovskite Solar Cells by Electrochemical Impedance Spectroscopy. *ACS Applied Energy Materials*, **2020**, 3, 8017-8025	6.1	1
128	Carrier Transport Limited by Trap State in CsAgBiBr Double Perovskites. *Journal of Physical Chemistry Letters*, **2020**, 11, 6956-6963	6.4	16
127	Soft interfaces within hybrid perovskite solar cells: real-time dynamic tracking of interfacial electrical property evolution by EIS. *Journal of Materials Chemistry C*, **2019**, 7, 8294-8302	7.1	12

126	Conductive metallic filaments dominate in hybrid perovskite-based memory devices. *Science China Materials*, **2019**, 62, 1323-1331	7.1	13
125	Cs0.05(FA0.85MA0.15)0.95Pb(I0.85Br0.15)3 based flexible perovskite light-emitting devices with excellent mechanical bending durability. *Chemical Physics Letters*, **2019**, 723, 33-38	2.5	3
124	Insight into the Interfacial Elastic Contact in Stacking Perovskite Solar Cells. *Advanced Materials Interfaces*, **2019**, 6, 1900157	4.6	7
123	Tunability in the Optical and Electronic Properties of ZnSe Microspheres via Ag and Mn Doping. *ACS Omega*, **2019**, 4, 12271-12277	3.9	29
122	Influence of Varied Fluorine Contents on Long-Term Storage Stability of Polyacrylate Nanoparticles and Film Properties. *Journal of Nanomaterials*, **2019**, 2019, 1-9	3.2	4
121	Efficient stable graphene-based perovskite solar cells with high flexibility in device assembling via modular architecture design. *Energy and Environmental Science*, **2019**, 12, 3585-3594	35.4	65
120	High-Performance and Stable Mesoporous Perovskite Solar Cells via Well-Crystallized FAMAPb(IBr). *ACS Applied Materials & Interfaces*, **2019**, 11, 2989-2996	9.5	22
119	Electricity generation from a Ni-Al layered double hydroxide-based flexible generator driven by natural water evaporation. *Nano Energy*, **2019**, 57, 269-278	17.1	64
118	Correlation of ETL in perovskite light-emitting diodes and the ultra-long rise time in time-resolved electroluminescence. *Materials Science in Semiconductor Processing*, **2018**, 80, 131-136	4.3	2
117	Distinctive electroluminescence characteristics behind efficient mesoscopic perovskite solar cell. *Materials Science in Semiconductor Processing*, **2018**, 80, 174-178	4.3	3
116	Piezo-phototronic effect enhanced photo-detector based on ZnO nano-arrays/NiO structure. *Applied Surface Science*, **2018**, 427, 613-619	6.7	18
115	Interfacial negative capacitance in planar perovskite solar cells: An interpretation based on band theory. *Materials Research Bulletin*, **2018**, 107, 74-79	5.1	9
114	Enhanced stability of perovskite solar cells using hydrophobic organic fluoropolymer. *Applied Physics Letters*, **2018**, 113, 023902	3.4	11
113	Engineered Multifunctional Fluorinated Film Based on Semicontinuous Emulsion Polymerization Using Polymerizable Quaternary Ammonium Emulsifiers. *International Journal of Polymer Science*, **2018**, 2018, 1-9	2.4	5
112	A comparative study of one-step and two-step approaches for MAPbI3 perovskite layer and its influence on the performance of mesoscopic perovskite solar cell. *Chemical Physics Letters*, **2018**, 692, 44-49	2.5	25
111	Discontinuous SnO 2 derived blended-interfacial-layer in mesoscopic perovskite solar cells: Minimizing electron transfer resistance and improving stability. *Nano Energy*, **2017**, 38, 358-367	17.1	43
110	Room-temperature metal□nsulator transition of MBE grown VO2 film investigated by temperature dependent resistance and transmittance. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 11046-11052	2.1	7
109	Head pose-free eye gaze prediction for driver attention study **2017**,		3

108	Piezo-phototronic effect improved performance of n-ZnO nano-arrays/p-Cu2O film based pressure sensor synthesized on flexible Cu foil. *Nano Energy*, **2017**, 32, 96-104	17.1	39
107	Stability and heating rate dependent metal–insulator transition properties of VO2 film grown by MBE. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 16861-16866	2.1	2
106	Synthesis and Characterization of Waterborne Fluoropolymers Prepared by the One-Step Semi-Continuous Emulsion Polymerization of Chlorotrifluoroethylene, Vinyl Acetate, Butyl Acrylate, Veova 10 and Acrylic Acid. *Molecules*, **2017**, 22,	4.8	9
105	VO2 Thermochromic Films on Quartz Glass Substrate Grown by RF-Plasma-Assisted Oxide Molecular Beam Epitaxy. *Materials*, **2017**, 10,	3.5	16
104	n-VO2/p-GaN based nitride–oxide heterostructure with various thickness of VO2 layer grown by MBE. *Applied Surface Science*, **2016**, 389, 199-204	6.7	18
103	Electroluminescence from perovskite LEDs with the structure of Ag/Spiro-OMeTAD/CH3NH3PbI3/TiO2/FTO. *Chemical Physics Letters*, **2016**, 662, 176-181	2.5	9
102	Sunlight-induced resistance changes and their effects on the semiconductor–metal transition behavior of VO2 film. *Journal of Materials Science*, **2016**, 51, 8233-8239	4.3	2
101	Realization of nitride–oxide based p–i–n heterojunctions with the n-VO2/p-GaN/sapphire structure. *Materials Research Bulletin*, **2016**, 77, 199-204	5.1	3
100	Thickness-modulated metal–insulator transition of VO2 film grown on sapphire substrate by MBE. *Journal of Materials Science*, **2016**, 51, 6149-6155	4.3	24
99	Controllable end shape modification of ZnO nano-arrays/rods by a simple wet chemical etching technique. *Journal Physics D: Applied Physics*, **2015**, 48, 365303	3	4
98	Growth and characterization of VO2/p-GaN/sapphire heterostructure with phase transition properties. *Applied Surface Science*, **2015**, 357, 282-286	6.7	14
97	Branched ZnO nanotrees on flexible fiber-paper substrates for self-powered energy-harvesting systems. *RSC Advances*, **2015**, 5, 5941-5945	3.7	13
96	Vanadium oxide films deposited on sapphire substrate with in situ AlN stress layer: structural, electric, and optical properties. *Journal of Materials Science*, **2015**, 50, 5709-5714	4.3	10
95	Growth of high c-orientated crystalline GaN films on amorphous Cu/glass substrates with low-temperature ECR-PEMOCVD. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 969-973	2.1	6
94	Enhanced performance of wearable piezoelectric nanogenerator fabricated by two-step hydrothermal process. *Applied Physics Letters*, **2014**, 104, 113903	3.4	14
93	Controlled growth of ZnO nanorods on common paper substrate and their application for flexible piezoelectric nanogenerators. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 2649-2656	2.1	17
92	ZnO films on transferable and low thermal resistance graphite substrate grown by ultrasonic spray pyrolysis. *Journal Wuhan University of Technology, Materials Science Edition*, **2014**, 29, 428-432	1	1
91	Ultra-low threshold optically pumped random laser emission behavior of highly oriented pyrolytic graphite. *Materials Letters*, **2014**, 115, 261-264	3.3	1

90	Low-temperature growth of high c-orientated crystalline GaN films on amorphous Ni/glass substrates with ECR-PEMOCVD. *Journal of Alloys and Compounds*, **2014**, 583, 39-42	5.7	13
89	Low-temperature ECR-PEMOCVD deposition of high-quality crystalline gallium nitride films: A comparative study of intermediate layers for growth on amorphous glass substrates. *Materials Science in Semiconductor Processing*, **2014**, 26, 182-186	4.3	3
88	Low-cost electrochemical treatment of indium tin oxide anodes for high-efficiency organic light-emitting diodes. *Applied Physics Letters*, **2014**, 104, 043306	3.4	6
87	Growth of Low-dimensional ZnO Materials on Graphite Substrate. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2014**, 29, 103-107	1	
86	High-quality ZnO nanorods grown on graphite substrates by chemical solution method. *Applied Physics A: Materials Science and Processing*, **2013**, 111, 1071-1076	2.6	3
85	Low temperature synthesis of GaN films on ITO substrates by ECR-PEMOCVD. *Vacuum*, **2013**, 92, 77-80	3.7	5
84	Effect of TMGa flux on GaN films deposited on Ti coated on glass substrates at low temperature. *Science Bulletin*, **2013**, 58, 3617-3623		1
83	Deposition and characteristics of GaN films on Ni metal substrate by ECR-PEMOCVD. *Journal of Materials Science: Materials in Electronics*, **2013**, 24, 5069-5074	2.1	2
82	Enhanced surface photovoltage response of ZnO nanorod based inorganic/organic hybrid junctions by constructing embedded bulk composite structures. *Applied Physics A: Materials Science and Processing*, **2013**, 110, 263-267	2.6	2
81	Surface photovoltage analysis of ZnO nanorods/p-Si heterostructure. *Materials Science in Semiconductor Processing*, **2013**, 16, 520-524	4.3	4
80	Low-temperature growth of highly c-oriented GaN films on Cu coated glass substrates with ECR-PEMOCVD. *Journal of Crystal Growth*, **2013**, 368, 92-96	1.6	14
79	Carrier transport mechanisms of n-ZnO/ZnMgO/p-GaN heterojunctions revealed by temperature-dependent current–voltage characteristics. *Materials Science in Semiconductor Processing*, **2013**, 16, 1684-1687	4.3	5
78	Realization of wide size range 1D ZnO micro/nano rods for versatile micro/nano devices by controlled seed layer thickness. *Applied Surface Science*, **2013**, 276, 782-786	6.7	9
77	Effect of temperature on GaN films deposited on graphite substrates at low-temperature. *Applied Surface Science*, **2013**, 280, 909-913	6.7	4
76	Adjusted surface work function of InN films annealed at vacuum and at high-pressure N2 conditions. *Materials Letters*, **2013**, 95, 135-138	3.3	5
75	Synthesis of SiO2/SiC/graphite hybrid composite by low temperature hot filament chemical vapor deposition. *Applied Physics Letters*, **2013**, 103, 212105	3.4	
74	Low-temperature growth of highly c-oriented InN films on glass substrates with ECR-PEMOCVD. *Vacuum*, **2012**, 86, 1102-1106	3.7	7
73	Improvement of crystal quality and UV transparence of dielectric Ga2O3 thin films via thermal annealing in N2 atmosphere. *Journal of Materials Science: Materials in Electronics*, **2012**, 23, 542-545	2.1	10

72	Introducing Ga2O3 thin films as novel electron blocking layer to ZnO/p-GaN heterojunction LED. *Applied Physics B: Lasers and Optics*, **2012**, 109, 605-609	1.9	12
71	Influence of radical power on the electrical and optical properties of ZnO:N films grown by metal-organic chemical vapor deposition with N2O plasma doping source. *Thin Solid Films*, **2012**, 521, 253-256	2.2	4
70	Effect of buffer layer on the structural and morphological properties of GaN films grown with ECR-PEMOCVD. *Diamond and Related Materials*, **2012**, 21, 88-91	3.5	3
69	Optoelectronic Characteristics of Zinc Oxide Nanorods/P3HT Hybrid Junctions Investigated Using Surface Photovoltage Method. *ECS Solid State Letters*, **2012**, 1, P15-P17		6
68	A comparative study of ZnO film and nanorods for ZnO/polyfluorene inorganic/organic hybrid junction. *Journal of Alloys and Compounds*, **2012**, 534, 1-5	5.7	7
67	High optical quality ZnO films grown on graphite substrate for transferable optoelectronics devices by ultrasonic spray pyrolysis. *Materials Research Bulletin*, **2012**, 47, 2685-2688	5.1	13
66	Rediscovery of the Role of the i-Layer in n-ZnO/SiO2/p-GaN Through Observations from Both the ZnO and GaN Sides. *Journal of Electronic Materials*, **2012**, 41, 3453-3456	1.9	4
65	The Effect of Cooling Rate During the Hydrothermal Growth on the Tip Geometry of ZnO Nanorods. *Advanced Materials Research*, **2012**, 602-604, 144-147	0.5	
64	The inorganic-organic hybrid junction with n-ZnO nanorods/p-polyfluorene structure grown with low-temperature aqueous chemical growth method. *Journal Wuhan University of Technology, Materials Science Edition*, **2012**, 27, 296-300	1	
63	Deposition and properties of highly c-oriented of InN films on sapphire substrates with ECR-plasma-enhanced MOCVD. *Rare Metals*, **2012**, 31, 150-153	5.5	6
62	ZnO-based graphite-insulator-semiconductor diode for transferable and low thermal resistance high-power devices. *Applied Physics Letters*, **2012**, 101, 052108	3.4	5
61	Fabrication of a Homojunction Light Emitting Diode with ZnO-Nanorods/ZnO:As-Film Structure. *Electrochemical and Solid-State Letters*, **2012**, 15, H164		6
60	Microstructure and optical properties of Ag-doped ZnO nanostructures prepared by a wet oxidation doping process. *Nanotechnology*, **2011**, 22, 105706	3.4	38
59	Conversion process of ZnO nano-/micro-rods into nano-/micro-tubes and cathodoluminescence characterization. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 3711-5	1.3	
58	Highly c-axis oriented GaN films grown on free-standing diamond substrates for high-power devices. *Materials Research Bulletin*, **2011**, 46, 1582-1585	5.1	17
57	Deposition and properties of highly C-oriented GaN films on diamond substrates. *Applied Physics A: Materials Science and Processing*, **2011**, 102, 353-358	2.6	5
56	Photocatalytic activities of wet oxidation synthesized ZnO and ZnO/TiO2 thick porous films. *Applied Nanoscience (Switzerland)*, **2011**, 1, 37-44	3.3	9
55	Influence of Sb doping on optical and structural properties of ZnO by MOCVD. *Physica Status Solidi (A) Applications and Materials Science*, **2011**, 208, 825-828	1.6	10

54	Effect of different annealing temperature on Sb-doped ZnO thin films prepared by pulsed laser deposition on sapphire substrates. *Applied Surface Science*, **2011**, 257, 5121-5124	6.7	9
53	Ultraviolet electroluminescence from ZnO-based light-emitting diode with p-ZnO:N/n-GaN:Si heterojunction structure. *Journal of Luminescence*, **2011**, 131, 825-828	3.8	19
52	Influence of N2 flux on the improvement of highly c-oriented GaN films on diamond substrates. *Vacuum*, **2011**, 85, 725-729	3.7	2
51	Photoluminescence study of Sb-doped ZnO films deposited by a closed tube CVT technique. *Vacuum*, **2011**, 85, 718-720	3.7	7
50	Electronic Structure and Optical Properties of Vertically Aligned ZnO Nanorod Arrays Grown by Low-temperature Hydrothermal Method. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2011**, 26, 332-336	1	2
49	Deposition of GaN Films on Freestanding CVD Thick Diamond Films. *Materials Science Forum*, **2010**, 654-656, 1740-1743	0.4	1
48	Effect of Different Substrate Temperature on Sb-Doped ZnO Thin Films Prepared by Pulsed Laser Deposition on Sapphire Substrates. *Chinese Physics Letters*, **2010**, 27, 017301	1.8	2
47	Preparation and Characteristics of GaN Films on Freestanding CVD Thick Diamond Films. *Chinese Physics Letters*, **2010**, 27, 018102	1.8	15
46	Cu related doublets green band emission in ZnO:Cu thin films. *Journal of Applied Physics*, **2010**, 108, 113507	2.5	27
45	Enhanced visible photoluminescence of V(2)O(5) via coupling ZnO/V(2)O(5) composite nanostructures. *Optics Letters*, **2010**, 35, 1145-7	3	17
44	Controllable growth of well-aligned ZnO nanorod arrays by low-temperature wet chemical bath deposition method. *Applied Surface Science*, **2010**, 256, 1698-1702	6.7	116
43	Effects of annealing ambience on ZnO:N films grown by MOCVD and the p-type doping mechanism of ZnO:N films investigated by XANES. *Applied Surface Science*, **2010**, 257, 1634-1637	6.7	11
42	Influence of high-pressure hydrogen treatment on structural and electrical properties of ZnO thin films. *Applied Surface Science*, **2010**, 256, 6770-6774	6.7	6
41	Growth of ultralong ZnO microwire and its application in isolatable and flexible piezoelectric strain sensor. *Physica Status Solidi (A) Applications and Materials Science*, **2010**, 207, 488-492	1.6	11
40	Effects of Substrate on the Structure, Morphology and Optical Properties of Ver-tically Aligned ZnO Nanorod Arrays Grown by Low-temperature CBD Method. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2010**, 25, 1115-1120	1	7
39	Comment on Influence of growth mode on the structural, optical, and electrical properties of In-doped ZnO nanorods[Appl. Phys. Lett. 94, 041906 (2009)]. *Applied Physics Letters*, **2009**, 95, 126101	3.4	
38	ZnO NANOPOROUS DISK/TiO2 NANOPARTICLE HYBRID FILM ELECTRODE FOR DYE-SENSITIZED SOLAR CELLS. *Functional Materials Letters*, **2009**, 02, 27-31	1.2	27
37	Effect of Different Substrate Temperature on Phosphorus-Doped ZnO Thin Films Prepared by PLD on Sapphire Substrates. *Chinese Physics Letters*, **2009**, 26, 057305	1.8	3

36	Photoluminescence investigation of ZnO:P nanoneedle arrays on InP substrate by pulsed laser deposition. *Applied Surface Science*, **2009**, 255, 4430-4433	6.7	8
35	Preparation and enhanced photoluminescence property of ordered ZnO/TiO2 bottlebrush nanostructures. *Chemical Physics Letters*, **2009**, 476, 84-88	2.5	52
34	Room temperature electroluminescence from the n-ZnO/p-GaN heterojunction device grown by MOCVD. *Materials Research Bulletin*, **2008**, 43, 3614-3620	5.1	24
33	Electroluminescence from n-ZnO/p-ZnO : Sb homojunction light emitting diode on sapphire substrate with metal□rganic precursors doped p-type ZnO layer grown by MOCVD technology. *Journal Physics D: Applied Physics*, **2008**, 41, 195110	3	39
32	Realization of Ultraviolet Electroluminescence from ZnO Homojunction Fabricated on Silicon Substrate with p-Type ZnO:N Layer Formed by Radical N 2 O Doping. *Chinese Physics Letters*, **2008**, 25, 4345-4347	1.8	10
31	Enhanced p-Type ZnO Films through Nitrogen and Argentum Codoping Grown by Ultrasonic Spray Pyrolysis. *Chinese Physics Letters*, **2008**, 25, 3400-3402	1.8	9
30	p-Type Sb-Doped ZnO Thin Films Prepared by Metallorganic Chemical Vapor Deposition Using Metallorganic Dopant. *Electrochemical and Solid-State Letters*, **2008**, 11, H323		11
29	Room temperature electroluminescence from the ZnO homojunction grown on an n+-Si substrate by metal□rganic chemical vapor deposition. *Semiconductor Science and Technology*, **2008**, 23, 025014	1.8	17
28	High quality p-type ZnO films grown by low pressure plasma-assisted MOCVD with N2O rf plasma doping source. *Journal of Materials Processing Technology*, **2008**, 204, 481-485	5.3	7
27	Annealing effects on electrical and optical properties of ZnO films deposited on GaAs by metal organic chemical vapor deposition. *Applied Surface Science*, **2008**, 254, 7482-7485	6.7	25
26	Ultraviolet electroluminescence from n-ZnO:Ga/p-ZnO:N homojunction device on sapphire substrate with p-type ZnO:N layer formed by annealing in N2O plasma ambient. *Chemical Physics Letters*, **2008**, 460, 548-551	2.5	51
25	Realization of ultraviolet electroluminescence from ZnO homojunction with n-ZnO□-ZnO:As□GaAs structure. *Applied Physics Letters*, **2007**, 90, 121128	3.4	111
24	Zinc Oxide Thin Films with Reduced Native Compensative Defects Grown by Ultrasonic Spray Pyrolysis at Atmosphere. *Key Engineering Materials*, **2007**, 336-338, 589-592	0.4	
23	Electroluminescence from a ZnO homojunction device grown by pulsed laser deposition. *Solid State Communications*, **2007**, 142, 655-658	1.6	32
22	Effects of hydrogen flux on the properties of Al-doped ZnO films sputtered in Ar+H2 ambient at low temperature. *Applied Surface Science*, **2007**, 253, 2999-3003	6.7	41
21	Synthesis and defect-related emission of ZnO based light emitting device with homo- and heterostructure. *Journal of Materials Processing Technology*, **2007**, 184, 451-454	5.3	44
20	Deposition and tunable photoluminescence of Zn1□(Mg,Cd)xO film system. *Journal of Materials Processing Technology*, **2007**, 189, 473-476	5.3	8
19	Synthesis and temperature dependent photoluminescence of Zn1□ Mg x O films grown by ultrasonic spray pyrolysis. *Journal of Materials Science*, **2007**, 42, 8461-8464	4.3	5

18	Realization of controllable etching for ZnO film by NH4Cl aqueous solution and its influence on optical and electrical properties. *Applied Surface Science*, **2007**, 253, 5161-5165	6.7	59
17	Growth and Characterization of Zinc Oxide Films by Pulsed Laser Deposition for Ultraviolet Detection. *Key Engineering Materials*, **2007**, 336-338, 577-580	0.4	
16	Room temperature defect related electroluminescence from ZnO homojunctions grown by ultrasonic spray pyrolysis. *Applied Physics Letters*, **2006**, 89, 052113	3.4	61
15	The grain-boundary-related optical and electrical properties in polycrystalline p-type ZnO films. *Chemical Physics Letters*, **2006**, 420, 448-452	2.5	13
14	Room temperature electroluminescence from the n-ZnMgO/ZnO/p-ZnMgO heterojunction device grown by ultrasonic spray pyrolysis. *Chemical Physics Letters*, **2006**, 430, 183-187	2.5	40
13	Influence of annealing atmosphere on ZnO thin films grown by MOCVD. *Applied Surface Science*, **2006**, 253, 2066-2070	6.7	28
12	Comparison of structural and photoluminescence properties of ZnO thin films grown by pulsed laser deposition and ultrasonic spray pyrolysis. *Thin Solid Films*, **2006**, 515, 1763-1766	2.2	11
11	Structural, optical and electrical properties of ZnO films grown by pulsed laser deposition (PLD). *Journal of Crystal Growth*, **2005**, 276, 507-512	1.6	138
10	Growth of nitrogen-doped p-type ZnO films by spray pyrolysis and their electrical and optical properties. *Journal of Crystal Growth*, **2005**, 280, 495-501	1.6	47
9	Structural and optical properties of Zn1-xMgxO thin films deposited by ultrasonic spray pyrolysis. *Thin Solid Films*, **2005**, 492, 248-252	2.2	72
8	Nitrogen and aluminum codoped p-type ZnO films and ZnO p□ homojunctions. *Surface and Coatings Technology*, **2005**, 198, 253-256	4.4	17
7	Structural and electrical properties of nitrogen and aluminum codoped p-type ZnO films. *Solid State Communications*, **2004**, 132, 75-78	1.6	35
6	Properties of undoped n-type ZnO film and N□h codoped p-type ZnO film deposited by ultrasonic spray pyrolysis. *Chemical Physics Letters*, **2004**, 393, 256-259	2.5	38
5	Deposition and electrical properties of N□h codoped p-type ZnO films by ultrasonic spray pyrolysis. *Applied Physics Letters*, **2004**, 84, 541-543	3.4	282
4	p-type ZnO films by monodoping of nitrogen and ZnO-based p□ homojunctions. *Applied Physics Letters*, **2004**, 85, 4070-4072	3.4	114
3	Synthesis and characterization of two-layer-structured ZnO p-n homojunctions by ultrasonic spray pyrolysis. *Applied Physics Letters*, **2004**, 84, 3783-3785	3.4	69
2	Synergetic Co-Modulation of Crystallization and Co-Passivation of Defects for FAPbI3 Perovskite Solar Cells. *Advanced Functional Materials*,2108567	15.6	13
1	Defective MWCNT Enabled Dual Interface Coupling for Carbon-based Perovskite Solar Cells with Efficiency Exceeding 22%. *Advanced Functional Materials*,2204831	15.6	1