

Large-Scale Hexagonal-Patterned Growth of Aligned Zn Nano-optoelectronics and Nanosensor Arrays

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Lithographically directed deposition of silica nanoparticles using spin coating. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 3415.	1.6	22
2	Hexagonal-arranged ZnO Nanowire Arrays by Using Au Nanohole Membranes as Fabrication Template. Materials Research Society Symposia Proceedings, 2004, 849, 154.	0.1	0
3	Self-assembly of ZnO nanowires and the spatial resolved characterization of their luminescence. Nanotechnology, 2004, 15, 1401-1404.	1.3	52
4	Shadow Nanosphere Lithography: Simulation and Experiment. Nano Letters, 2004, 4, 1359-1363.	4.5	356
5	Nanostructures of zinc oxide. Materials Today, 2004, 7, 26-33.	8.3	1,259
6	Single-Crystal Hexagonal Disks and Rings of ZnO: Low-Temperature, Large-Scale Synthesis and Growth Mechanism. Angewandte Chemie - International Edition, 2004, 43, 5238-5242.	7.2	455
7	Templated and Hierarchical Assembly of CdSe/ZnS Quantum Dots. Advanced Materials, 2004, 16, 1341-1345.	11.1	38
8	Directed Growth of Ordered Arrays of Small-Diameter ZnO Nanowires. Advanced Materials, 2004, 16, 1348-1352.	11.1	198
10	Patterned growth of aligned ZnO nanowire arrays on sapphire and GaN layers. Superlattices and Microstructures, 2004, 36, 95-105.	1.4	70
11	Fabrication of embedded media by etching of self-assembled mask. , 0, , .		0
12	A New and Simple Means for Self-Assembled Nanostructure: Facilitated by Buffer Layer. Journal of Physical Chemistry B, 2004, 108, 18799-18803.	1.2	16
13	Formation of Piezoelectric Single-Crystal Nanorings and Nanobows. Journal of the American Chemical Society, 2004, 126, 6703-6709.	6.6	262
14	Large-Scale Fabrication of Ordered Nanobowl Arrays. Nano Letters, 2004, 4, 2223-2226.	4.5	197
15	Formation of Super Arrays of Periodic Nanoparticles and Aligned ZnO Nanorods Simulation and Experiments. Nano Letters, 2004, 4, 2037-2040.	4.5	85
16	Photoluminescence and polarized photodetection of single ZnO nanowires. Applied Physics Letters, 2004, 85, 6128-6130.	1.5	330
17	Role of Surface Diffusion in Chemical Beam Epitaxy of InAs Nanowires. Nano Letters, 2004, 4, 1961-1964.	4.5	326
18	Coherent Vibrational Oscillation in Gold Prismatic Monolayer Periodic Nanoparticle Arrays. Nano Letters, 2004, 4, 1741-1747.	4.5	86
19	Chemical sensing with ZnO nanowire FETs. , 2005, , .		1

#	ARTICLE	IF	CITATIONS
20	Spatial organization of ZnO nanorods on surfaces via organic templating. , 2005, , .		3
21	Synthesis and photoluminescence of gallium oxide ultra-long nanowires and thin nanosheets. Journal of Crystal Growth, 2005, 279, 122-128.	0.7	42
22	Synthesis and optical properties of well-aligned ZnS nanowires on Si substrate. Journal of Crystal Growth, 2005, 280, 173-178.	0.7	25
23	Fabrication of the periodic nanopillar arrays by heat-induced deformation of 2D polymer colloidal monolayer. Polymer, 2005, 46, 12033-12036.	1.8	28
24	STM and STS characterization of ZnO nanorods. Optical Materials, 2005, 27, 1276-1280.	1.7	9
25	Interpenetrative and transverse growth process of self-catalyzed ZnO nanorods. Solid State Communications, 2005, 134, 741-745.	0.9	35
26	Fabrication of controllable free-standing ultrathin porous alumina membranes. Nanotechnology, 2005, 16, 1285-1289.	1.3	93
27	2D nanoparticle arrays by partial dissolution of ordered pore films. Materials Letters, 2005, 59, 276-279.	1.3	17
28	Growth of tin oxide nanocrystals. Crystal Research and Technology, 2005, 40, 932-936.	0.6	23
29	Architectural Control of Hierarchical Nanobelt Superstructures in Catanionic Reverse Micelles. Advanced Functional Materials, 2005, 15, 442-450.	7.8	131
30	A Simple Route to Tunable Two-Dimensional Arrays of Quantum Dots. Advanced Materials, 2005, 17, 415-418.	11.1	27
31	Self-Assembly of ZnO Nanorods and Nanosheets into Hollow Microhemispheres and Microspheres. Advanced Materials, 2005, 17, 756-760.	11.1	396
32	Unique Phase-Separation Structures of Block-Copolymer Nanoparticles. Advanced Materials, 2005, 17, 2062-2065.	11.1	165
33	In-Plane Aligned Pb(Zr _x Ti _{1-x})O ₃ Microbelts Fabricated by Near Migration and Restricted Growth. Advanced Materials, 2005, 17, 1952-1956.	11.1	21
34	Photonic Crystals Fabricated Using Patterned Nanorod Arrays. Advanced Materials, 2005, 17, 2103-2106.	11.1	92
35	Large hexagonal arrays of aligned ZnO nanorods. Applied Physics A: Materials Science and Processing, 2005, 80, 749-752.	1.1	48
36	Laser morphological manipulation of gold nanoparticles periodically arranged on solid supports. Applied Physics B: Lasers and Optics, 2005, 81, 765-768.	1.1	38
37	Hydrothermal Synthesis and Optical Properties of ZnO Nanostructured Films Directly Grown from/on Zinc Substrates. Journal of Sol-Gel Science and Technology, 2005, 36, 227-234.	1.1	22

#	ARTICLE	IF	CITATIONS
38	Formation of Ferroelectric Perovskite Nanostructure Patterns Using Latex Sphere Monolayers as Masks: An Ambient Gas Pressure Effect during Pulsed Laser Deposition. <i>Small</i> , 2005, 1, 837-841.	5.2	29
39	Synthesis of Si-Ge Oxide Nanowires via the Transformation of Si-Ge Thin Films with Self-Assembled Au Catalysts. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, G254.	2.2	5
40	Optically detected coherent picosecond lattice oscillations in two dimensional arrays of gold nanocrystals of different sizes and shapes induced by femtosecond laser pulses. , 2005, 5927, 592701.		1
41	Synthesis and Characterization of ZnO Nanowires Using a Simple PVD Approach without Catalysts. <i>Materials Science Forum</i> , 2005, 475-479, 3535-3538.	0.3	5
42	Temperature-controlled growth of ZnO nanostructures: branched nanobelts and wide nanosheets. <i>Nanotechnology</i> , 2005, 16, 2561-2566.	1.3	41
43	Quasi-aligned single-crystalline GaN nanowire arrays. <i>Applied Physics Letters</i> , 2005, 87, 073106.	1.5	68
44	Local luminescence of ZnO nanowire-covered surface: A cathodoluminescence microscopy study. <i>Applied Physics Letters</i> , 2005, 86, 023113.	1.5	43
45	Artificial control of ZnO nanodots by ion-beam nanopatterning. <i>Journal of Applied Physics</i> , 2005, 97, 104316.	1.1	17
46	Integration of metal oxide nanobelts with microsystems for nerve agent detection. <i>Applied Physics Letters</i> , 2005, 86, 063101.	1.5	127
47	Patterned growth of ZnO nanorods by micromolding of sol-gel-derived seed layer. <i>Applied Physics Letters</i> , 2005, 87, 133112.	1.5	26
48	Fabrication, structure, magnetic properties of highly ordered cobalt disulfide nanowire arrays. <i>Applied Physics Letters</i> , 2005, 87, 262505.	1.5	37
49	Patterning and fusion of CuO nanorods with a focused laser beam. <i>Nanotechnology</i> , 2005, 16, 1238-1244.	1.3	23
50	Photothermal reshaping of prismatic Au nanoparticles in periodic monolayer arrays by femtosecond laser pulses. <i>Journal of Applied Physics</i> , 2005, 98, 114301.	1.1	50
51	Self-attraction among aligned Au/ZnO nanorods under electron beam. <i>Applied Physics Letters</i> , 2005, 86, 013111.	1.5	69
52	Hexagonally packed zinc oxide nanorod bundles on hydrotalcite sheets. <i>Journal of Materials Chemistry</i> , 2005, 15, 2508.	6.7	19
53	Buffer-Facilitated Epitaxial Growth of ZnO Nanowire. <i>Crystal Growth and Design</i> , 2005, 5, 579-583.	1.4	52
54	Combined Optical Tweezers/Ion Beam Technique to Tune Colloidal Masks for Nanolithography. <i>Nano Letters</i> , 2005, 5, 1175-1179.	4.5	51
55	Effect of RuO ₂ in the Shape Selectivity of Submicron-Sized SnO ₂ Structures. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12297-12303.	1.2	47

#	ARTICLE	IF	CITATIONS
56	Elastic Property of Vertically Aligned Nanowires. <i>Nano Letters</i> , 2005, 5, 1954-1958.	4.5	280
57	Large-Size Lifiable Inverted-Nanobowl Sheets as Reusable Masks for Nanolithography. <i>Nano Letters</i> , 2005, 5, 1784-1788.	4.5	61
58	From Multicomponent Precursor to Nanoparticle Nanoribbons of ZnO. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1113-1117.	1.2	109
59	Systematic Study on Experimental Conditions for Large-Scale Growth of Aligned ZnO Nanowires on Nitrides. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9869-9872.	1.2	124
60	ZnO Nanobelt Arrays Grown Directly from and on Zinc Substrates: Synthesis, Characterization, and Applications. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15303-15308.	1.2	117
61	ZnO nanorods: synthesis, characterization and applications. <i>Semiconductor Science and Technology</i> , 2005, 20, S22-S34.	1.0	754
62	Characterization of Infrared Chemical Sensors Modified with ZnO Nanowires for the Detection of Volatile Organic Compounds. <i>Applied Spectroscopy</i> , 2005, 59, 1002-1008.	1.2	8
63	The Optically Detected Coherent Lattice Oscillations in Silver and Gold Monolayer Periodic Nanoprism Arrays: The Effect of Interparticle Coupling. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18881-18888.	1.2	92
64	Carbon-assisted synthesis of aligned ZnO nanowires. <i>Materials Letters</i> , 2005, 59, 2710-2714.	1.3	25
65	Controlled Growth of Well-Aligned ZnO Nanorod Array Using a Novel Solution Method. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19263-19269.	1.2	417
66	Hydrothermal Synthesis of ZnO Microspheres and Hexagonal Microrods with Sheetlike and Platelike Nanostructures. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20115-20121.	1.2	226
67	Gold Nanorods Grown Directly on Surfaces from Microscale Patterns of Gold Seeds. <i>Chemistry of Materials</i> , 2005, 17, 3415-3420.	3.2	54
68	Arrays of vertically aligned and hexagonally arranged ZnO nanowires: a new template-directed approach. <i>Nanotechnology</i> , 2005, 16, 913-917.	1.3	147
69	Spontaneous formation of polymer nanoparticles by good-solvent evaporation as a nonequilibrium process. <i>Chaos</i> , 2005, 15, 047505.	1.0	95
70	Controlled Growth of Large-Area, Uniform, Vertically Aligned Arrays of Fe_2O_3 Nanobelts and Nanowires. <i>Journal of Physical Chemistry B</i> , 2005, 109, 215-220.	1.2	506
71	Large-Scale Ni-Doped ZnO Nanowire Arrays and Electrical and Optical Properties. <i>Journal of the American Chemical Society</i> , 2005, 127, 16376-16377.	6.6	229
72	A template-free electrochemical deposition route to ZnO nanoneedle arrays and their optical and field emission properties. <i>Nanotechnology</i> , 2005, 16, 2567-2574.	1.3	114
73	Fabrication, characterization and field emission properties of large-scale uniform ZnO nanotube arrays. <i>Nanotechnology</i> , 2005, 16, 2039-2043.	1.3	100

#	ARTICLE	IF	CITATIONS
74	Controlled selective growth of ZnO nanorod and microrod arrays on Si substrates by a wet chemical method. Applied Physics Letters, 2006, 89, 163128.	1.5	114
75	Solution-Based Growth and Optical Properties of Self-Assembled Monocrystalline ZnO Ellipsoids. Journal of Physical Chemistry B, 2006, 110, 10612-10618.	1.2	75
76	Controlled Growth of Aligned Arrays of Cu ²⁺ Ferrite Nanorods. Crystal Growth and Design, 2006, 6, 1931-1935.	1.4	47
77	Controlled Fabrication of Hollow Metal Pillar Arrays Using Colloidal Masks. Chemistry of Materials, 2006, 18, 6103-6105.	3.2	31
78	Simple approach to highly oriented ZnO nanowire arrays: large-scale growth, photoluminescence and photocatalytic properties. Nanotechnology, 2006, 17, 588-594.	1.3	96
79	Metal Oxide Nano-Honeycombs Prepared by Solution-Based Nanosphere Lithography and the Field Emission Properties. Chemistry of Materials, 2006, 18, 4544-4546.	3.2	20
80	Influence of the Formation of the Second Phase in ZnO ⁺ Ga Nanowire Systems. Journal of the Electrochemical Society, 2006, 153, G333.	1.3	10
81	Gold Nanoparticles Propulsion from Surface Fueled by Absorption of Femtosecond Laser Pulse at Their Surface Plasmon Resonance. Journal of the American Chemical Society, 2006, 128, 13330-13331.	6.6	45
82	Surfactant-Assisted Route to Synthesize Well-Aligned ZnO Nanorod Arrays on Sol ⁻ Gel-Derived ZnO Thin Films. Journal of Physical Chemistry B, 2006, 110, 14266-14272.	1.2	86
83	Pattern and Feature Designed Growth of ZnO Nanowire Arrays for Vertical Devices. Journal of Physical Chemistry B, 2006, 110, 50-53.	1.2	120
84	Mechanistic Investigations of PEG-Directed Assembly of One-Dimensional ZnO Nanostructures. Journal of Physical Chemistry B, 2006, 110, 25734-25739.	1.2	86
85	Piezoelectric and Semiconducting Coupled Power Generating Process of a Single ZnO Belt/Wire. A Technology for Harvesting Electricity from the Environment. Nano Letters, 2006, 6, 1656-1662.	4.5	384
86	Piezoelectric Field Effect Transistor and Nanoforce Sensor Based on a Single ZnO Nanowire. Nano Letters, 2006, 6, 2768-2772.	4.5	983
87	Solvothermal Synthesis of ZnO with Various Aspect Ratios Using Organic Solvents. Crystal Growth and Design, 2006, 6, 2446-2450.	1.4	139
88	Study on synthesis and blue emission mechanism of ZnO tetrapodlike nanostructures. Journal of Applied Physics, 2006, 100, 054311.	1.1	98
89	ZnO Nanotip-based QCM Biosensors. , 2006, , .		7
90	ATOMIC-CONTINUUM TRANSITION AT INTERFACES OF SILICON AND CARBON NANOCOMPOSITE MATERIALS. , 2006, , 23-32.		0
91	Hydrothermal growth of large-scale micropatterned arrays of ultralong ZnO nanowires and nanobelts on zinc substrate. Chemical Communications, 2006, , 3551.	2.2	122

#	ARTICLE	IF	CITATIONS
92	Morphology-controlled 2D ordered arrays by heating-induced deformation of 2D colloidal monolayer. <i>Journal of Materials Chemistry</i> , 2006, 16, 609-612.	6.7	43
93	Controlled Lateral Growth of ZnO Nanowires Using a Growth Barrier. , 2006, , .		0
94	Templated Electrosynthesis of Zinc Oxide Nanorods. <i>Chemistry of Materials</i> , 2006, 18, 2233-2237.	3.2	101
95	Photonic Crystals and Devices. , 2006, , 281-305.		0
96	One-dimensional Wurtzite Semiconducting Nanostructures. , 2006, , 384-426.		0
97	ZnO Nanoparticle-Modified Infrared Internal Reflection Elements for Selective Detection of Volatile Organic Compounds. <i>Analytical Chemistry</i> , 2006, 78, 2397-2404.	3.2	75
98	Template-Free Preparation of Bunches of Aligned Boehmite Nanowires. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21680-21683.	1.2	107
99	ZnO Nanowire Field-Effect Transistors: Ozone-Induced Threshold Voltage Shift and Multiple Nanowire Effects. , 2006, , .		2
100	Formation of Tunable Zinc Oxide Structures via Solution Method for use in Self-Cleaning Applications. , 0, , .		0
101	Na(Y _{1.5} Na _{0.5})F ₆ Single-Crystal Nanorods as Multicolor Luminescent Materials. <i>Nano Letters</i> , 2006, 6, 1645-1649.	4.5	332
102	Synthesis of ordered large-scale ZnO nanopore arrays. <i>Applied Physics Letters</i> , 2006, 88, 103106.	1.5	57
103	ZnO nanosheet networks and hexagonal nanodiscs grown on silicon substrate: growth mechanism and structural and optical properties. <i>Nanotechnology</i> , 2006, 17, 2174-2180.	1.3	212
104	A rapid hydrothermal route to sisal-like 3D ZnO nanostructures via the assembly of CTA+and Zn(OH) ₄ ²⁻ : growth mechanism and photoluminescence properties. <i>Nanotechnology</i> , 2006, 17, 1316-1322.	1.3	66
105	Temperature-dependent shifts of three emission bands for ZnO nanoneedle arrays. <i>Applied Physics Letters</i> , 2006, 88, 161101.	1.5	296
106	Piezoelectricity in ZnO nanowires: A first-principles study. <i>Applied Physics Letters</i> , 2006, 89, 223111.	1.5	178
107	Poly(ethylene glycol)-Assisted Two-Dimensional Self-Assembly of Zinc Sulfide Microspheres. <i>Inorganic Chemistry</i> , 2006, 45, 4586-4588.	1.9	16
108	Large-Area Nanoscale Patterning: Chemistry Meets Fabrication. <i>Accounts of Chemical Research</i> , 2006, 39, 249-257.	7.6	211
109	SiO ₂ Nanowires Growing on Hexagonally Arranged Circular Patterns Surrounded by TiO ₂ Films. <i>Journal of Physical Chemistry B</i> , 2006, 110, 222-226.	1.2	12

#	ARTICLE	IF	CITATIONS
110	Synthesis of Polygonized Carbon Nanotubes Utilizing Inhomogeneous Catalyst Activity of Nonspherical Fe ₃ O ₄ Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16404-16407.	1.2	22
111	Hexagonal and Prismatic Nanowalled ZnO Microboxes. <i>Inorganic Chemistry</i> , 2006, 45, 3256-3260.	1.9	42
112	Periodic ZnO Nanorod Arrays Defined by Polystyrene Microsphere Self-Assembled Monolayers. <i>Nano Letters</i> , 2006, 6, 2375-2378.	4.5	130
113	Patterned Metal Nanowire Arrays from Photolithographically-Modified Templates. <i>Journal of the American Chemical Society</i> , 2006, 128, 13342-13343.	6.6	32
114	Control of the ZnO Nanowires Nucleation Site Using Microfluidic Channels. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3856-3859.	1.2	41
115	Density-Controlled Growth of Aligned ZnO Nanowires Sharing a Common Contact: A Simple, Low-Cost, and Mask-Free Technique for Large-Scale Applications. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7720-7724.	1.2	120
116	Solid-State Transformation from Self-Assembled Nanosheets into Ordered Nanorods. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4054-4057.	1.2	12
117	Growth of ZnO Nanoneedle Arrays with Strong Ultraviolet Emissions by an Electrochemical Deposition Method. <i>Crystal Growth and Design</i> , 2006, 6, 1091-1095.	1.4	68
118	Template-Assisted Large-Scale Ordered Arrays of ZnO Pillars for Optical and Piezoelectric Applications. <i>Small</i> , 2006, 2, 561-568.	5.2	209
119	Nanomachining by Colloidal Lithography. <i>Small</i> , 2006, 2, 458-475.	5.2	559
120	Surfactant-Templated Synthesis of 1D Single-Crystalline Polymer Nanostructures. <i>Small</i> , 2006, 2, 517-521.	5.2	23
121	Semiconductor Nanowires: From Self-Organization to Patterned Growth. <i>Small</i> , 2006, 2, 700-717.	5.2	715
122	SiC-Shell Nanostructures Fabricated by Replicating ZnO Nano-objects: A Technique for Producing Hollow Nanostructures of Desired Shape. <i>Small</i> , 2006, 2, 1344-1347.	5.2	38
123	Preparation of Zinc Oxide Nanofibers by Electrospinning. <i>Journal of the American Ceramic Society</i> , 2006, 89, 699-701.	1.9	136
124	Simple preparation of hemispherical polystyrene particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 284-285, 250-253.	2.3	36
125	Quasi-one-dimensional metal oxide materials—Synthesis, properties and applications. <i>Materials Science and Engineering Reports</i> , 2006, 52, 49-91.	14.8	526
126	Growth of size-tunable periodic Ni silicide nanodot arrays on silicon substrates. <i>Applied Surface Science</i> , 2006, 253, 2071-2077.	3.1	3
127	Aligned ZnO nanorod arrays fabricated on Si substrate by solution deposition. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 31, 235-239.	1.3	22

#	ARTICLE	IF	CITATIONS
128	Preparation of zinc oxide nanorods using pulsed laser ablation in water media at high temperature. <i>Journal of Colloid and Interface Science</i> , 2006, 300, 612-615.	5.0	136
129	Well-ordered ZnO nanowire arrays on GaN substrate fabricated via nanosphere lithography. <i>Journal of Crystal Growth</i> , 2006, 287, 34-38.	0.7	108
130	Selective-area growth and field emission properties of Zinc oxide nanowire micropattern arrays. <i>Physica B: Condensed Matter</i> , 2006, 382, 76-80.	1.3	20
131	Photoluminescence and time-resolved photoluminescence of star-shaped ZnO nanostructures. <i>Solid State Communications</i> , 2006, 139, 355-359.	0.9	19
132	Fabrication of periodic nickel silicide nanodot arrays using nanosphere lithography. <i>Thin Solid Films</i> , 2006, 494, 307-310.	0.8	9
133	Guide to the Literature of Piezoelectricity and Pyroelectricity. 26. <i>Ferroelectrics</i> , 2006, 332, 227-321.	0.3	2
134	Selective growth of zinc oxide nanowires on the metal electrodes. <i>Journal of Electroceramics</i> , 2006, 17, 923-928.	0.8	1
135	Selective growth of ZnO nanorods by patterning of sol-gel-derived thin film. <i>Journal of Electroceramics</i> , 2006, 17, 455-459.	0.8	22
136	One-step synthetic route for producing nanoslabs: Zn-oriented polycrystalline and single-crystalline zinc oxide. <i>Journal of Materials Science</i> , 2006, 41, 3263-3269.	1.7	6
137	Hydrothermal Synthesis and Optical Properties of ZnO Nanostructured Films Directly Grown from/on Zinc Substrates. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 39, 73-73.	1.1	4
138	Preparation and optical property of nanosized ZnO electrochemically deposited in mesoporous silica films. <i>Thin Solid Films</i> , 2006, 495, 68-72.	0.8	27
139	Synthesis and electrical properties of ZnO nanowires. <i>Micron</i> , 2006, 37, 370-373.	1.1	28
140	Interface properties of ZnO nanotips grown on Si substrates. <i>Journal of Electronic Materials</i> , 2006, 35, 1241-1245.	1.0	4
141	Patterned growth and field emission of ZnO nanowires. <i>Materials Letters</i> , 2006, 60, 522-526.	1.3	38
142	Alignment of ZnO nanowires on Al, Ti, Pt electrodes. <i>Materials Letters</i> , 2006, 60, 2282-2287.	1.3	4
143	General Synthesis of Two-Dimensional Patterned Conducting Polymer-Nanobowl Sheet via Chemical Polymerization. <i>Macromolecular Rapid Communications</i> , 2006, 27, 771-775.	2.0	26
144	Epitaxial Growth of Vertically Aligned and Branched Single-Crystalline Tin-Doped Indium Oxide Nanowire Arrays. <i>Advanced Materials</i> , 2006, 18, 234-238.	11.1	124
145	Homoepitaxial Growth and Lasing Properties of ZnS Nanowire and Nanoribbon Arrays. <i>Advanced Materials</i> , 2006, 18, 1527-1532.	11.1	140

#	ARTICLE	IF	CITATIONS
146	ZnO Nanosheets with Ordered Pore Periodicity via Colloidal Crystal Template Assisted Electrochemical Deposition. <i>Advanced Materials</i> , 2006, 18, 1001-1004.	11.1	100
147	An Approach to Lithographically Defined Self-Assembled Nanoparticle Films. <i>Advanced Materials</i> , 2006, 18, 930-933.	11.1	33
148	Patterning of Poly(acrylic acid) by Ionic Exchange Reactions in Microfluidic Channels. <i>Advanced Materials</i> , 2006, 18, 3174-3178.	11.1	15
149	Fabrication of opal-like thin films. <i>Philosophical Magazine Letters</i> , 2006, 86, 707-712.	0.5	3
150	ZnO nanorod arrays as p-n heterojunction ultraviolet photodetectors. <i>Electronics Letters</i> , 2006, 42, 1309.	0.5	21
151	Investigations on the formation mechanism of hydroxyapatite synthesized by the solvothermal method. <i>Nanotechnology</i> , 2006, 17, 4405-4412.	1.3	49
152	Two-Dimensional Organization of Single Crystal ZnO Nanopillars. <i>Materials Research Society Symposia Proceedings</i> , 2006, 957, 1.	0.1	0
153	Nanoscale laser patterning of thin gold films. <i>Philosophical Magazine Letters</i> , 2006, 86, 661-667.	0.5	11
154	Catalyst-free growth of uniform ZnO nanowire arrays on prepatterned substrate. <i>Applied Physics Letters</i> , 2006, 89, 263116.	1.5	24
155	Luminescence of bound excitons in epitaxial ZnO thin films grown by plasma-assisted molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2006, 99, 013502.	1.1	40
156	Fabrication of quasi-one-dimensional oxide nanoconstriction array via nanosphere lithography: A simple approach to nanopatterns of multicomponent oxides. <i>Journal of Applied Physics</i> , 2006, 100, 014306.	1.1	5
157	Au-catalyzed growth processes and luminescence properties of ZnO nanopillars on Si. <i>Journal of Applied Physics</i> , 2006, 99, 054307.	1.1	48
158	Distribution of optical emission between guided modes and free space in a semiconductor nanowire. <i>Journal of Applied Physics</i> , 2006, 99, 024314.	1.1	67
159	Fabrication of tunable nanostructure arrays using ion-polishing-assisted nanosphere lithography. <i>Journal of Applied Physics</i> , 2006, 99, 034308.	1.1	12
160	Growth of ZnO nanotetrapods with hexagonal crown. <i>Applied Physics Letters</i> , 2006, 88, 193113.	1.5	69
161	Vapour-transport-deposition growth of ZnO nanostructures: switch between c-axial wires and a-axial belts by indium doping. <i>Nanotechnology</i> , 2006, 17, S231-S239.	1.3	97
162	Low-temperature synthesis of silica-enhanced gallium nitride nanowires on silicon substrate. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 1635-1639.	0.9	0
163	Nanosphere Lithography Using Thermal Evaporation of Gold. , 2006, , .		2

#	ARTICLE	IF	CITATIONS
164	Nanostructured ZnO: Building Blocks for Nanoscale Devices. International Journal of High Speed Electronics and Systems, 2006, 16, 883-896.	0.3	39
165	Integration of single-crystalline nanocolumns into highly ordered nanopore arrays. Nanotechnology, 2006, 17, 2590-2594.	1.3	15
166	Low temperature growth of single-crystal ZnO nanorods. Nanotechnology, 2007, 18, 275601.	1.3	9
167	Two-dimensional and three-dimensional ZnO nanostructures induced by twinings. Nanotechnology, 2007, 18, 245607.	1.3	10
168	Growth and characterization of ZnO nanowires for various sensor applications. , 2007, , .		2
169	Low-temperature fabrication of single-crystal ZnO nanopillar photonic bandgap structures. Nanotechnology, 2007, 18, 155302.	1.3	36
170	Uniform large-scale growth of micropatterned arrays of ZnO nanowires synthesized by a surfactant assisted approach. Nanotechnology, 2007, 18, 175607.	1.3	23
171	Structural and lasing characteristics of ultrathin hexagonal ZnO nanodisks grown vertically on silicon-on-insulator substrates. Applied Physics Letters, 2007, 91, .	1.5	39
172	Structural and optical properties of the three-dimensional CdS nanocone arrays on the self-assembled Cd ²⁺ /CdS core-shell microspheres. Applied Physics Letters, 2007, 90, 203112.	1.5	6
173	Probing hydrogen in ZnO nanorods using solid-state H1 nuclear magnetic resonance. Applied Physics Letters, 2007, 90, 173115.	1.5	20
174	Spatially confined light output of a crystalline zinc oxide nanonet laser. Applied Physics Letters, 2007, 91, 041103.	1.5	12
175	Selective area synthesis of magnesium oxide nanowires. Journal of Applied Physics, 2007, 102, 104906.	1.1	9
176	The properties of ZnO photoluminescence at and above room temperature. Journal of Applied Physics, 2007, 102, 116105.	1.1	13
177	Lateral ZnO nanowire growth on a planar substrate using a growth barrier. Nanotechnology, 2007, 18, 055601.	1.3	13
178	Synthesis of ZnO Nanostructures by Thermal Evaporation on Graphite. Solid State Phenomena, 2007, 124-126, 575-578.	0.3	0
179	Zinc Oxide Nanorod Arrays: Properties and Hydrothermal Synthesis. , 2007, , 92-117.		3
180	Toward Nanometer-Scale Sensing Systems: Natural and Artificial Noses as Models for Ultra-Small, Ultra-Dense Sensing Systems. Advances in Computers, 2007, 71, 103-166.	1.2	5
181	Controllable growth of ZnO nanoarrays in aqueous solution and their optical properties. Nanotechnology, 2007, 18, 145605.	1.3	27

#	ARTICLE	IF	CITATIONS
182	Piezoelectric Nanostructures: From Growth Phenomena to Electric Nanogenerators. MRS Bulletin, 2007, 32, 109-116.	1.7	100
183	Structure and Properties of Cobalt Disulfide Nanowire Arrays Fabricated by Electrodeposition. Electrochemical and Solid-State Letters, 2007, 10, D29.	2.2	37
184	Facile Route to Zn-Based II-VI Semiconductor Spheres, Hollow Spheres, and Core/Shell Nanocrystals and Their Optical Properties. Langmuir, 2007, 23, 10286-10293.	1.6	100
185	A Sol-Gel Route To Synthesize Monolithic Zinc Oxide Aerogels. Chemistry of Materials, 2007, 19, 6007-6011.	3.2	108
186	Synthesis and Optical Characterizations of ZnO Nanorods. Solid State Phenomena, 2007, 121-123, 805-808.	0.3	1
187	From ZnO nanorods to 3D hollow microhemispheres: solvothermal synthesis, photoluminescence and gas sensor properties. Nanotechnology, 2007, 18, 455604.	1.3	73
188	A simple route to scalable fabrication of perfectly ordered ZnO nanorod arrays. Nanotechnology, 2007, 18, 405303.	1.3	42
189	Role of Chloride Ions on Electrochemical Deposition of ZnO Nanowire Arrays from O_2 Reduction. Journal of Physical Chemistry C, 2007, 111, 16706-16711.	1.5	154
190	Position-Controlled Seedless Growth of ZnO Nanorod Arrays on a Polymer Substrate via Wet Chemical Synthesis. Journal of Physical Chemistry C, 2007, 111, 10162-10165.	1.5	97
191	Hydrothermal Synthesis and Characterization of Alkaline-Earth Metal Phenylphosphonate Nanostructures. Crystal Growth and Design, 2007, 7, 895-899.	1.4	17
192	Formation and characterization of carbon nanowires. Journal of Applied Physics, 2007, 102, .	1.1	36
193	Growth of self-assembled ZnO nanowire arrays. Philosophical Magazine, 2007, 87, 2097-2104.	0.7	20
194	N-Type Field-Effect Transistors Using Multiple Mg-Doped ZnO Nanorods. IEEE Nanotechnology Magazine, 2007, 6, 390-395.	1.1	23
195	Synthesis of Aligned Single-Walled Nanotubes Using Catalysts Defined by Nanosphere Lithography. Journal of the American Chemical Society, 2007, 129, 10104-10105.	6.6	42
196	Preparation of Periodic Arrays of Metallic Nanocrystals by Using Nanohoneycomb as Reaction Vessel. Chemistry of Materials, 2007, 19, 5833-5835.	3.2	15
197	Effect of the Lattice Crystallinity on the Electron-Phonon Relaxation Rates in Gold Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 10751-10757.	1.5	94
198	Functional One-Dimensional Nanomaterials: Applications in Nanoscale Biosensors. Analytical Letters, 2007, 40, 2067-2096.	1.0	90
199	Symmetric Linear Assembly of Hourglass-like ZnO Nanostructures. Journal of Physical Chemistry C, 2007, 111, 2032-2039.	1.5	55

#	ARTICLE	IF	CITATIONS
200	Electrochemical Self-Assembly of ZnO Nanoporous Structures. Journal of Physical Chemistry C, 2007, 111, 1919-1923.	1.5	68
201	Fabrication and optical properties of two-dimensional ZnO hollow half-shell arrays. Applied Physics Letters, 2007, 91, .	1.5	25
202	Different ZnO Nanostructures Fabricated by a Seed-Layer Assisted Electrochemical Route and Their Photoluminescence and Field Emission Properties. Journal of Physical Chemistry C, 2007, 111, 2470-2476.	1.5	138
203	Direct-Current Nanogenerator Driven by Ultrasonic Waves. Science, 2007, 316, 102-105.	6.0	2,065
204	Future Approaches of Nanomedicine in Clinical Science. Medical Clinics of North America, 2007, 91, 963-1016.	1.1	19
205	First Example of ZnO~TiO₂ Nanocomposites by Chemical Vapor Deposition: Structure, Morphology, Composition, and Gas Sensing Performances. Chemistry of Materials, 2007, 19, 5642-5649.	3.2	164
206	Growth of aligned ZnO nanorods and nanopencils on ZnO/Si in aqueous solution: growth mechanism and structural and optical properties. Nanotechnology, 2007, 18, 115603.	1.3	238
207	Nanowire and nanobelt arrays of zinc oxide from synthesis to properties and to novel devices. Journal of Materials Chemistry, 2007, 17, 711.	6.7	261
208	Synthesis and Characterization of High-Quality ZnS, ZnS:Mn ²⁺ , and ZnS:Mn ²⁺ /ZnS (Core/Shell) Luminescent Nanocrystals. Inorganic Chemistry, 2007, 46, 1354-1360.	1.9	158
209	Template-Free Synthesis of Zinc Oxide Hollow Microspheres in Aqueous Solution at Low Temperature. Journal of Physical Chemistry C, 2007, 111, 18629-18635.	1.5	53
210	Shape-Controlled Synthesis of Zinc Oxide: A Simple Method for the Preparation of Metal Oxide Nanocrystals in Non-aqueous Medium. Chemistry - A European Journal, 2007, 13, 632-638.	1.7	107
211	Form Emerges from Formless Entities: Temperature-Induced Self-Assembly and Growth of ZnO Nanoparticles into Zeptoliter Bowls and Troughs. Angewandte Chemie - International Edition, 2007, 46, 5962-5965.	7.2	28
213	ZnO Nanotetrapods: Controlled Vapor-Phase Synthesis and Application for Humidity Sensing. Advanced Functional Materials, 2007, 17, 1345-1352.	7.8	223
214	Synthesis and Lasing Properties of Highly Ordered CdS Nanowire Arrays. Advanced Functional Materials, 2007, 17, 1501-1506.	7.8	121
215	In-Situ Field Emission of Density-Controlled ZnO Nanowire Arrays. Advanced Materials, 2007, 19, 1627-1631.	11.1	237
216	Position-Controlled Selective Growth of ZnO Nanorods on Si Substrates Using Facet-Controlled GaN Micropatterns. Advanced Materials, 2007, 19, 4416-4419.	11.1	47
217	Temperature-Controlled Synthesis and Photocatalytic Performance of ZnO Nanoplatelets. Chemical Vapor Deposition, 2007, 13, 618-625.	1.4	48
218	Catalyst-free MOCVD growth of aligned ZnO nanotip arrays on silicon substrate with controlled tip shape. Solid State Communications, 2007, 141, 464-466.	0.9	41

#	ARTICLE	IF	CITATIONS
219	The kinetics of the hydrothermal growth of ZnO nanostructures. <i>Thin Solid Films</i> , 2007, 515, 8679-8683.	0.8	183
220	Laser patterning of Zn for ZnO nanostructure growth: Comparison between laser induced forward transfer in air and in vacuum. <i>Thin Solid Films</i> , 2007, 515, 8529-8533.	0.8	19
221	Enhancement of the ultraviolet emission of ZnO nanostructures by polyaniline modification. <i>Chemical Physics Letters</i> , 2007, 446, 370-373.	1.2	59
222	Surface-enhanced Raman scattering of methylene blue adsorbed on cap-shaped silver nanoparticles. <i>Chemical Physics Letters</i> , 2007, 447, 305-309.	1.2	292
223	Synthesis of single crystalline europium-doped ZnO nanowires. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 138, 224-227.	1.7	49
224	Novel growth of ZnO micro-rod arrays using hydrophobically micropatterned surfaces. <i>Materials Science in Semiconductor Processing</i> , 2007, 10, 68-76.	1.9	13
225	Direct growth of comet-like superstructures of Au@ZnO submicron rod arrays by solvothermal soft chemistry process. <i>Journal of Solid State Chemistry</i> , 2007, 180, 213-220.	1.4	23
226	Chemical vapor synthesis and characterization of chromium doped zinc oxide nanoparticles. <i>Journal of the European Ceramic Society</i> , 2007, 27, 4333-4337.	2.8	58
227	Rapid self-assembly of submicrospheres at liquid surface by controlling evaporation and its mechanism. <i>Journal of Colloid and Interface Science</i> , 2007, 306, 428-432.	5.0	18
228	Homoepitaxial ZnO film growth on vertically aligned ZnO nanorods. <i>Journal of Crystal Growth</i> , 2007, 303, 580-584.	0.7	24
229	The new field of nanopiezotronics. <i>Materials Today</i> , 2007, 10, 20-28.	8.3	292
230	ZnO @ nanostructures, defects, and devices. <i>Materials Today</i> , 2007, 10, 40-48.	8.3	1,582
231	Nondestructive quantitative synchrotron grazing incidence X-ray scattering analysis of cylindrical nanostructures in supported thin films. <i>Journal of Applied Crystallography</i> , 2007, 40, 305-312.	1.9	52
232	Laser-Interference Lithography Tailored for Highly Symmetrically Arranged ZnO Nanowire Arrays. <i>Small</i> , 2007, 3, 76-80.	5.2	95
233	ZnO-Nanowire-Inserted GaN/ZnO Heterojunction Light-Emitting Diodes. <i>Small</i> , 2007, 3, 568-572.	5.2	153
234	Luminescent Coordination Compound Nanospheres for Water Determination. <i>Small</i> , 2007, 3, 1218-1221.	5.2	23
235	Effect of the terminal substituent of azobenzene on the properties of ABA triblock copolymers via atom transfer radical polymerization. <i>Journal of Polymer Science Part A</i> , 2007, 45, 5190-5198.	2.5	14
236	Strong Orange Luminescence from a Novel Hexagonal ZnO Nanosheet Film Grown on Aluminum Substrate by a Simple Wet-Chemical Approach. <i>Journal of the American Ceramic Society</i> , 2007, 90, 635-637.	1.9	19

#	ARTICLE	IF	CITATIONS
237	Photoelectric properties of nano-ZnO fabricated in mesoporous silica film. <i>Materials Letters</i> , 2007, 61, 3179-3184.	1.3	18
238	One-dimensional gallium nitride micro/nanostructures synthesized by a space-confined growth technique. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 87, 651-659.	1.1	35
239	Novel nanostructures of ZnO for nanoscale photonics, optoelectronics, piezoelectricity, and sensing. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 88, 7-15.	1.1	255
240	Pulsed-laser deposition and characterization of ZnO nanowires with regular lateral arrangement. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 88, 31-34.	1.1	36
241	Ultra-sharp $\hat{\Gamma}$ -Fe ₂ O ₃ nanoflakes: growth mechanism and field-emission. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 89, 115-119.	1.1	44
242	THE THEORETICAL INVESTIGATION OF THz ELECTROMAGNETIC WAVES IN A ROD DEGENERATE PLASMA-WAVEGUIDE. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2007, 27, 1469-1495.	0.6	15
243	Synthesis, characterization and photoluminescence of well-ordered ZnO micropillars grown on ZnO buffer layers. <i>Wuhan University Journal of Natural Sciences</i> , 2007, 12, 1043-1046.	0.2	1
244	Fast and Reversible Wettability Transitions on ZnO Nanostructures. <i>Journal of Electronic Materials</i> , 2007, 36, 895-899.	1.0	51
245	Seed layer-free synthesis and characterization of vertically grown ZnO nanorod array via the stepwise solution route. <i>Applied Surface Science</i> , 2007, 253, 4060-4065.	3.1	21
246	Enzyme-functionalized gold nanowires for the fabrication of biosensors. <i>Bioelectrochemistry</i> , 2007, 71, 211-216.	2.4	88
247	Excitation of THz symmetric TM-modes in a cylindrical metallic waveguide with an axial magnetized degenerate plasma rod by an electron beam. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 370, 319-330.	0.9	18
248	Fabrication and optical properties of ZnO nanostructured thin films via mechanical oscillation and hydrothermal method. <i>Thin Solid Films</i> , 2008, 516, 5974-5980.	0.8	15
249	Controlled growth of ZnO nanorod templates and TiO ₂ nanotube arrays by using porous TiO ₂ film as mask. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 47, 187-193.	1.1	12
250	Evidences dominating the formation of ZnO nanostructures via $\hat{\Gamma}$ -in-situ study in an environmental scanning electron microscope. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 669-672.	1.1	5
251	Hydrothermal synthesis of 2D ordered macroporous ZnO films. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2008, 3, 229-234.	0.4	7
252	ZnO 1-D nanostructures: Low temperature synthesis and characterizations. <i>Bulletin of Materials Science</i> , 2008, 31, 551-559.	0.8	18
253	Positive and Negative ZnO Micropatterning on Functionalized Polymer Surfaces. <i>Small</i> , 2008, 4, 1527-1536.	5.2	29
254	Morphology- $\hat{\Gamma}$ Controlled Assembly of ZnO Nanostructures: A Bioinspired Method and Visible Luminescence. <i>Chemistry - A European Journal</i> , 2008, 14, 6421-6427.	1.7	33

#	ARTICLE	IF	CITATIONS
255	Facile size-controllable syntheses of highly monodisperse polystyrene nano- and microspheres by polyvinylpyrrolidone-mediated emulsifier-free emulsion polymerization. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1755-1760.	1.3	110
256	Tactile Devices To Sense Touch on a Par with a Human Finger. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7808-7826.	7.2	175
257	Controllable Synthesis of Vertically Aligned p-type GaN Nanorod Arrays on n-type Si Substrates for Heterojunction Diodes. <i>Advanced Functional Materials</i> , 2008, 18, 3515-3522.	7.8	50
258	Gigahertz Optical Modulation Resulting from Coherent Lattice Oscillations Induced by Femtosecond Laser Pumping of 2D Photonic Crystals of Gold-Capped Polystyrene Microspheres. <i>Advanced Materials</i> , 2008, 20, 733-737.	11.1	18
259	Single-Crystal Semiconductor Wires Integrated into Microstructured Optical Fibers. <i>Advanced Materials</i> , 2008, 20, 1135-1140.	11.1	39
260	Ferromagnetism in ZnO Nanowires Derived from Electrodeposition on AAO Template and Subsequent Oxidation. <i>Advanced Materials</i> , 2008, 20, 1170-1174.	11.1	135
262	Site-specific growth of ZnO nanowires from patterned Zn via compatible semiconductor processing. <i>Journal of Crystal Growth</i> , 2008, 310, 2485-2492.	0.7	28
263	Synthesis and characterization of ZnO nanorods by a simple single-source hydrothermal method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 924-928.	1.3	29
264	Large-scale growth of millimeter-long single-crystalline ZnS nanobelts. <i>Journal of Solid State Chemistry</i> , 2008, 181, 3116-3120.	1.4	19
265	Controllable synthesis of ZnO nanoflowers and their morphology-dependent photocatalytic activities. <i>Separation and Purification Technology</i> , 2008, 62, 727-732.	3.9	291
266	From hexagonally arrayed nanorods to ordered porous film through controlling the morphology of ZnO crystals. <i>Applied Surface Science</i> , 2008, 254, 5849-5853.	3.1	9
267	Superhydrophobic or superhydrophilic surfaces regulated by micro-nano structured ZnO powders. <i>Applied Surface Science</i> , 2008, 255, 3371-3374.	3.1	32
268	Preparation of non-contact ordered array of polystyrene colloidal particles by using a metallic thin film of fused hemispheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 330, 108-111.	2.3	5
269	Controllable preparation of ZnO hollow microspheres by self-assembled block copolymer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 330, 67-71.	2.3	21
270	Oriented growth of ZnO nanostructures on Si and Al substrates. <i>Surface and Coatings Technology</i> , 2008, 202, 4681-4686.	2.2	63
271	Formation and cathodoluminescence of Al:ZnO nanoscrew clusters. <i>Thin Solid Films</i> , 2008, 517, 1225-1229.	0.8	5
272	Liquid phase epitaxial growth and optical property of flower-like ZnO nanosheets on Zinc foil. <i>Applied Surface Science</i> , 2008, 254, 2331-2335.	3.1	13
273	Growth and characterization of ZnO nanostructured thin films by a two step chemical method. <i>Applied Surface Science</i> , 2008, 255, 2382-2387.	3.1	69

#	ARTICLE	IF	CITATIONS
274	Electroless deposition of zinc oxide on pincushion films prepared by self-organization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 313-314, 312-315.	2.3	21
275	Hemispherical polymer nano-particles of polyisoprene- <i>poly(methyl methacrylate)</i> blend with core-shell structure. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 313-314, 332-334.	2.3	26
276	ZnO Nanowire Field-Effect Transistors. <i>IEEE Transactions on Electron Devices</i> , 2008, 55, 2977-2987.	1.6	55
277	ZnO/Zn _{0.85} Mg _{0.15} O superlattice nanoneedles grown by pulsed laser deposition. <i>Micro and Nano Letters</i> , 2008, 3, 117.	0.6	1
278	Stacking fault directed growth of thin ZnO nanobelt. <i>Materials Letters</i> , 2008, 62, 2369-2371.	1.3	15
279	Polymer-Encapsulated Gold-Nanoparticle Dimers: Facile Preparation and Catalytic Application in Guided Growth of Dimeric ZnO-Nanowires. <i>Nano Letters</i> , 2008, 8, 2643-2647.	4.5	155
280	Controllable Growth of ZnO Nanostructures by a Simple Solvothermal Process. <i>Journal of Physical Chemistry C</i> , 2008, 112, 106-111.	1.5	132
281	Periodic Growth of ZnO Nanorod Arrays on Two-Dimensional SiN _x Nanohole Templates by Electrochemical Deposition. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4129-4133.	1.5	12
282	Formation of Hierarchical Nanoparticle Pattern Arrays Using Colloidal Lithography and Two-Step Self-Assembly: Microspheres atop Nanospheres. <i>Chemistry of Materials</i> , 2008, 20, 1847-1854.	3.2	39
283	Facile Synthesis and Characterization of Iron Oxide Semiconductor Nanowires for Gas Sensing Application. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15220-15225.	1.5	143
284	Hexagonal-Close-Packed, Hierarchical Amorphous TiO ₂ Nanocolumn Arrays: Transferability, Enhanced Photocatalytic Activity, and Superamphiphilicity without UV Irradiation. <i>Journal of the American Chemical Society</i> , 2008, 130, 14755-14762.	6.6	321
285	Splendid One-Dimensional Nanostructures of Zinc Oxide: A New Nanomaterial Family for Nanotechnology. <i>ACS Nano</i> , 2008, 2, 1987-1992.	7.3	487
286	Selective Growth of Vertical ZnO Nanowire Arrays Using Chemically Anchored Gold Nanoparticles. <i>ACS Nano</i> , 2008, 2, 2001-2006.	7.3	74
287	Microspheric Organization of Multilayered ZnO Nanosheets with Hierarchically Porous Structures. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11722-11728.	1.5	204
288	Morphology-Controlled Growth of ZnO Nanostructures Using Microwave Irradiation: from Basic to Complex Structures. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12769-12776.	1.5	320
289	Ordered Micro/Nanostructured Arrays Based on the Monolayer Colloidal Crystals. <i>Chemistry of Materials</i> , 2008, 20, 615-624.	3.2	240
290	Chemical Modification of Colloidal Masks for Nanolithography. <i>Langmuir</i> , 2008, 24, 5967-5969.	1.6	9
291	Luminescent Bis-(8-hydroxyquinoline) Cadmium Complex Nanorods. <i>Crystal Growth and Design</i> , 2008, 8, 564-567.	1.4	64

#	ARTICLE	IF	CITATIONS
292	Massive assembly of ZnO nanowire-based integrated devices. <i>Nanotechnology</i> , 2008, 19, 095303.	1.3	32
293	Density-controlled growth of aligned ZnO nanowire arrays by seedless chemical approach on smooth surfaces. <i>Journal of Materials Research</i> , 2008, 23, 2072-2077.	1.2	240
294	Growth of Horizontal ZnO Nanowire Arrays on Any Substrate. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18734-18736.	1.5	122
295	Simultaneous Synthesis of Al-Doped ZnO Nanoneedles and Zinc Aluminum Hydroxides through Use of a Seed Layer. <i>Crystal Growth and Design</i> , 2008, 8, 4553-4558.	1.4	42
296	The role of reactants and droplet interfaces on nucleation and growth of ZnO nanorods synthesized by vapor-liquid-solid (VLS) mechanism. <i>Journal of Alloys and Compounds</i> , 2008, 455, 353-357.	2.8	63
297	Vertically Aligned p-Type Single-Crystalline GaN Nanorod Arrays on n-Type Si for Heterojunction Photovoltaic Cells. <i>Nano Letters</i> , 2008, 8, 4191-4195.	4.5	298
298	Patterned Growth of Vertically Aligned ZnO Nanowire Arrays on Inorganic Substrates at Low Temperature without Catalyst. <i>Journal of the American Chemical Society</i> , 2008, 130, 14958-14959.	6.6	270
299	Analysis of Copper Incorporation into Zinc Oxide Nanowires. <i>ACS Nano</i> , 2008, 2, 368-376.	7.3	36
300	Spin coating of a colloidal suspension. <i>Physics of Fluids</i> , 2008, 20, .	1.6	58
301	Luminescent properties of ZnO nanowires and as-grown ensembles. <i>Nanotechnology</i> , 2008, 19, 415606.	1.3	29
302	Controllable Synthesis of Ordered ZnO Nanodots Arrays by Nanosphere Lithography. <i>Crystal Growth and Design</i> , 2008, 8, 2917-2920.	1.4	9
303	Large Scale Fabrication of Periodical Bowl-like Micropatterns of Single Crystal ZnO. <i>Crystal Growth and Design</i> , 2008, 8, 2912-2916.	1.4	15
304	Cellular Level Biocompatibility and Biosafety of ZnO Nanowires. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20114-20117.	1.5	288
305	Microwave-Assisted Synthesis of Various ZnO Hierarchical Nanostructures: Effects of Heating Parameters of Microwave Oven. <i>Crystal Growth and Design</i> , 2008, 8, 3148-3153.	1.4	95
306	Ultrafast Upconversion Probing of Lasing Dynamics in Single ZnO Nanowire Lasers. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1679-1684.	1.5	57
307	Growth of Vertically Aligned ZnO Nanobelt Arrays on GaN Substrate. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18935-18937.	1.5	35
308	Facile Synthesis and Optical Property of Porous Tin Oxide and Europium-Doped Tin Oxide Nanorods through Thermal Decomposition of the Organotin. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19939-19944.	1.5	16
309	In Situ Fabrication of Density-Controlled ZnO Nanorod Arrays on a Flexible Substrate Using Inductively Coupled Plasma Etching and Microwave Irradiation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17760-17763.	1.5	24

#	ARTICLE	IF	CITATIONS
310	Cathodoluminescence inhomogeneity in ZnO nanorods. Applied Physics Letters, 2008, 93, .	1.5	41
311	Deposition of electronic materials inside microstructured optical fibres for novel device applications. , 2008, , .		0
312	Fabrication, Characterization, and Strong Exciton Emission of Multilayer ZnTe Nanowire Superstructures. Journal of Physical Chemistry C, 2008, 112, 20307-20311.	1.5	13
313	Synthesis and photoluminescence of a full zinc blende phase ZnO nanorod array. Nanotechnology, 2008, 19, 175303.	1.3	38
314	Theoretical Study on Electronic and Electrical Properties of Nanostructural ZnO. Japanese Journal of Applied Physics, 2008, 47, 2999.	0.8	24
315	Well-aligned ZnO nanorods for device applications: Synthesis and characterisation of ZnO nanorods and n-ZnO/p-Si heterojunction diodes. Europhysics Letters, 2008, 81, 38001.	0.7	29
316	Multi-Scale Grafted Polymeric Nanostructures Patterned Bottom-Up by Colloidal Lithography and Initiated Chemical Vapor Deposition (iCVD). Materials Research Society Symposia Proceedings, 2008, 1134, 1.	0.1	2
317	Controlling the surface coverage and arrangement of proteins using particle lithography. Nanomedicine, 2008, 3, 529-541.	1.7	22
318	Kirkendall approach to the fabrication of ultra-thin ZnO nanotubes with high resistive sensitivity to humidity. Nanotechnology, 2008, 19, 265606.	1.3	33
319	Controlled growth of hierarchical ZnO nanorods with periodical structure under negative feedback mechanism. Journal Physics D: Applied Physics, 2008, 41, 195402.	1.3	4
320	Substrate-free growth, characterization and growth mechanism of ZnO nanorod close-packed arrays. Nanotechnology, 2008, 19, 035704.	1.3	31
321	Bending and bundling of metal-free vertically aligned ZnO nanowires due to electrostatic interaction. Nanotechnology, 2008, 19, 185607.	1.3	29
322	Cross-sectional shape modulation of physical properties in ZnO and Zn _{1-x} Co _x O nanowires. New Journal of Physics, 2008, 10, 033017.	1.2	12
323	Controllable fabrication and electromechanical characterization of single crystalline Sb-doped ZnO nanobelts. Applied Physics Letters, 2008, 92, .	1.5	63
324	Characterization of Ga-doped ZnO nanowires grown by thermal chemical vapor deposition. , 2008, , .		0
325	Behavior of n-ZnO nanorods/p-Si heterojunction devices at higher temperatures. Applied Physics Letters, 2008, 92, .	1.5	106
326	Fabrication of zinc oxide nanorods based heterojunction devices using simple and economic chemical solution method. Applied Physics Letters, 2008, 93, 083124.	1.5	30
327	Electron Microscopy Techniques for Imaging and Analysis of Nanoparticles. , 2008, , 531-584.		2

#	ARTICLE	IF	CITATIONS
328	Electron Microscopy Techniques for Imaging and Analysis of Nanoparticles. , 2008, , 395-443.		1
329	Cathodoluminescence Properties of ZnO Tower-Like Structures Prepared by Thermal Oxidation. E-Journal of Surface Science and Nanotechnology, 2009, 7, 358-361.	0.1	5
330	Growth and characterization of ZnO cross-like structures by hydrothermal method. Revista Materia, 2009, 14, 977-982.	0.1	10
331	A novel and simple method to grow beaded nanochains of ZnO with superior photocatalytic activity. Nanotechnology, 2009, 20, 475602.	1.3	45
332	The fabrication of a carbon nanotube array using a catalyst-poisoning layer in the inverse nano-sphere lithography method. Nanotechnology, 2009, 20, 305303.	1.3	4
333	Unpredicted Nucleation of Extended Zinc Blende Phases in Wurtzite ZnO Nanotetrapod Arms. ACS Nano, 2009, 3, 3158-3164.	7.3	49
334	Photoconductance of aligned SnO ₂ nanowire field effect transistors. Applied Physics Letters, 2009, 95, .	1.5	43
335	Nonradiative energy transfer in ZnO nanorods/dye-doped polymer heterostructures. Applied Physics Letters, 2009, 94, 233301.	1.5	10
336	Building cavities in microspheres and nanospheres. Nanotechnology, 2009, 20, 065305.	1.3	17
337	Self-assembly of densely packed and aligned bilayer ZnO nanorod arrays. Applied Physics Letters, 2009, 94, .	1.5	52
338	The selective fabrication of large-area highly ordered TiO ₂ nanorod and nanotube arrays on conductive transparent substrates via sol-gel electrophoresis. Nanotechnology, 2009, 20, 365604.	1.3	27
339	Metallorganic Chemical Vapor Deposition of ZnO Nanowires from Zinc Acetylacetonate and Oxygen. Journal of the Electrochemical Society, 2009, 156, H52.	1.3	20
340	Zn Cluster Drifting Effect for the Formation of ZnO 3D Nanoarchitecture. ACS Nano, 2009, 3, 1594-1602.	7.3	39
341	Metal organic chemical vapor deposition growth and luminescence of ZnO micro- and nanowires. Journal of Vacuum Science & Technology B, 2009, 27, 1662.	1.3	30
342	The fabrication of diversiform nanostructure forests based on residue nanomasks synthesized by oxygen plasma removal of photoresist. Nanotechnology, 2009, 20, 445304.	1.3	39
343	Pulsed laser deposition of ZnO honeycomb structures on metal catalyst prepatterned Si substrates. Journal Physics D: Applied Physics, 2009, 42, 065417.	1.3	10
344	ZnO nanopowder induced light scattering for improved visualization of emission sites in carbon nanotube films and arrays. Nanotechnology, 2009, 20, 255201.	1.3	1
345	Electric-induced nanodamage in single ZnO nanowires. Journal of Applied Physics, 2009, 105, .	1.1	10

#	ARTICLE	IF	CITATIONS
346	Lattice strain and p-d repulsion affecting electronic structure of wurtzite Zn _{1-x} Cd _x O alloys. Chinese Physics B, 2009, 18, 4418-4424.	0.7	4
347	ZnO nanoparticles prepared by electrical arc discharge method in water. Materials Chemistry and Physics, 2009, 118, 6-8.	2.0	72
348	Seed layer-free electrodeposition of well-aligned ZnO submicron rod arrays via a simple aqueous electrolyte. Materials Research Bulletin, 2009, 44, 1700-1708.	2.7	26
349	Solvothermally grown ZnO nanorod arrays on (101) and (002) single- and poly-crystalline Zn metal substrates. Materials Letters, 2009, 63, 1019-1022.	1.3	34
350	Synthesis of density-controlled ZnO nanoneedle arrays on a flexible substrate by addition of Al salts and use of microwave irradiation. Materials Letters, 2009, 63, 2025-2028.	1.3	13
351	Periodic TiO ₂ Nanorod Arrays with Hexagonal Nonclose-Packed Arrangements: Excellent Field Emitters by Parameter Optimization. Advanced Functional Materials, 2009, 19, 2467-2473.	7.8	96
352	Template Deformation-Tailored ZnO Nanorod/Nanowire Arrays: Full Growth Control and Optimization of Field-Emission. Advanced Functional Materials, 2009, 19, 3165-3172.	7.8	224
353	Is There a ZnO Face Stable to Atomic Hydrogen?. Advanced Materials, 2009, 21, 1700-1706.	11.1	53
354	Wafer-Level Patterned and Aligned Polymer Nanowire/Micro- and Nanotube Arrays on any Substrate. Advanced Materials, 2009, 21, 2072-2076.	11.1	52
356	Rapid and Tunable Patterning of High Purity ZnO Nanoarrays without Template or Catalyst. Chemistry - A European Journal, 2009, 15, 4253-4257.	1.7	5
357	Spontaneously Patterned ZnO Nanoarrays. Chemistry - A European Journal, 2009, 15, 11473-11477.	1.7	3
358	Hydrothermal synthesis of hollow twinning ZnO microstructures. Crystal Research and Technology, 2009, 44, 373-378.	0.6	12
359	Zinc Oxide Nano- and Microfabrication from Coordination Polymer Templates. Angewandte Chemie - International Edition, 2009, 48, 3018-3021.	7.2	66
360	Nanohole 3D-size tailoring through polystyrene bead combustion during thin film deposition. Applied Surface Science, 2009, 255, 4384-4388.	3.1	2
361	Synthesis, characterization and optical properties of multipod ZnO whiskers. Applied Surface Science, 2009, 255, 8667-8671.	3.1	11
362	Aligned Nanorod Arrays: Additive and Emergent Properties. Journal of Cluster Science, 2009, 20, 429-451.	1.7	17
363	Fabrication and green emission of ZnO nanowire arrays. Science in China Series D: Earth Sciences, 2009, 52, 883-887.	0.9	8
364	Structural and optical properties of periodically ordered ZnO nanowires. Science in China Series D: Earth Sciences, 2009, 52, 313-317.	0.9	5

#	ARTICLE	IF	CITATIONS
365	Ten yearsâ€™ venturing in ZnO nanostructures: from discovery to scientific understanding and to technology applications. <i>Science Bulletin</i> , 2009, 54, 4021-4034.	1.7	108
366	The effect of pre-annealing of sputtered ZnO seed layers on growth of ZnO nanorods through a hydrothermal method. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 775-780.	1.1	59
367	Density-controlled growth and field emission property of aligned ZnO nanorod arrays. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 403-408.	1.1	26
368	Structural, electrical and optical properties of boron doped ZnO thin films using LSMCD method at room temperature. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 821-828.	1.1	46
369	Electroluminescence from ZnO nanowire-based p-GaN/n-ZnO heterojunction light-emitting diodes. <i>Applied Physics B: Lasers and Optics</i> , 2009, 94, 33-38.	1.1	61
370	Growth, evolution and photocatalytic activity of ZnO nano back-tapered arrays. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 94-100.	0.8	2
371	Joining and Interconnect Formation of Nanowires and Carbon Nanotubes for Nanoelectronics and Nanosystems. <i>Small</i> , 2009, 5, 1246-1257.	5.2	102
372	Structural characterization of manganese-substituted nanocrystalline zinc oxide using small-angle neutron scattering and high-resolution transmission electron microscopy. <i>Journal of Applied Crystallography</i> , 2009, 42, 1085-1091.	1.9	9
373	Tailoring the spring constant of Si nanorod structures using swift heavy ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 3617-3623.	0.6	5
374	Synthesis and magnetic properties of Cu-doped ZnO nanowire arrays. <i>Electrochimica Acta</i> , 2009, 54, 2392-2395.	2.6	43
375	Grafted polymeric nanostructures patterned bottom-up by colloidal lithography and initiated chemical vapor deposition (iCVD). <i>Thin Solid Films</i> , 2009, 517, 3615-3618.	0.8	19
376	Fabrication of GaN nanorods by inductively coupled plasma etching via SiO ₂ nanosphere lithography. <i>Thin Solid Films</i> , 2009, 517, 3859-3861.	0.8	34
377	Growth and characterizations of ZnO nanorod/film structures on copper coated Si substrates. <i>Thin Solid Films</i> , 2009, 518, 1549-1552.	0.8	4
378	Humidity sensing properties of KCl-doped Cu/Zn/CuO/ZnO nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 21-26.	4.0	57
379	Enhanced toluene sensing characteristics of TiO ₂ -doped flowerlike ZnO nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2009, 140, 73-78.	4.0	172
380	X-ray peak broadening analysis in ZnO nanoparticles. <i>Solid State Communications</i> , 2009, 149, 1919-1923.	0.9	421
381	Visualization of local gate control in a ZnO inter-nanowire junction device. <i>Solid-State Electronics</i> , 2009, 53, 320-323.	0.8	1
382	Effect of temperature on the formation of macroporous ZnO bundles and its application in photocatalysis. <i>Journal of Hazardous Materials</i> , 2009, 172, 700-706.	6.5	52

#	ARTICLE	IF	CITATIONS
383	Low-temperature fabrication of ZnO nanoarray films by forced hydrolysis of anhydrous zinc acetate layer. <i>Journal of Crystal Growth</i> , 2009, 311, 597-600.	0.7	14
384	Nucleation characteristics of GaN nanorods grown on etched sapphire substrates by hydride vapor phase epitaxy. <i>Journal of Crystal Growth</i> , 2009, 311, 2953-2955.	0.7	4
385	Shape-controlled syntheses of PbS submicro-/nano-crystals via hydrothermal method. <i>Journal of Crystal Growth</i> , 2009, 311, 1533-1538.	0.7	47
386	Selective growth of zinc oxide nanorods on inkjet printed seed patterns. <i>Journal of Crystal Growth</i> , 2009, 311, 2352-2358.	0.7	39
387	Effect of UV irradiation on the properties of ZnO nanorod arrays prepared by hydrothermal method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 757-761.	1.3	13
388	Quasi-one dimensional metal oxide semiconductors: Preparation, characterization and application as chemical sensors. <i>Progress in Materials Science</i> , 2009, 54, 1-67.	16.0	582
389	Template-free polyoxometalate-assisted synthesis for ZnO hollow spheres. <i>Journal of Solid State Chemistry</i> , 2009, 182, 1149-1155.	1.4	46
390	Controlled synthesis of ZnO with adjustable morphologies from nanosheets to microspheres. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 348, 124-129.	2.3	22
391	Patterned growth of ZnO nanorods and their field emission properties. <i>Current Applied Physics</i> , 2009, 9, 34-38.	1.1	8
392	High-density arrays of low-defect-concentration zinc oxide nanowire grown on transparent conducting oxide glass substrate by chemical vapor deposition. <i>Acta Materialia</i> , 2009, 57, 1813-1820.	3.8	15
393	Microcontact Printing of Organic Self-Assembled Monolayers for Patterned Growth of Well-Aligned ZnO Nanorod Arrays and their Field Emission Properties. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2192-2196.	1.9	12
394	Colloidal Lithography – The Art of Nanochemical Patterning. <i>Chemistry - an Asian Journal</i> , 2009, 4, 236-245.	1.7	148
395	Two-Dimensional Inverse Opal ZnO Nanorod Networks with Photonic Band Gap. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14778-14782.	1.5	36
396	Synthesis of Self-Assembled Island-Structured Complex Oxide Dielectric Films. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16610-16614.	1.5	5
397	Patterned Growth of Horizontal ZnO Nanowire Arrays. <i>Journal of the American Chemical Society</i> , 2009, 131, 6670-6671.	6.6	97
398	Grafted Functional Polymer Nanostructures Patterned Bottom-Up by Colloidal Lithography and Initiated Chemical Vapor Deposition (iCVD). <i>Chemistry of Materials</i> , 2009, 21, 742-750.	3.2	68
399	Bioinspired Synthesis of Vertically Aligned ZnO Nanorod Arrays: Toward Greener Chemistry. <i>Crystal Growth and Design</i> , 2009, 9, 4793-4796.	1.4	26
400	Preparation and Optical Properties of Biomimic Hierarchical ZnO Column Arrays. <i>Crystal Growth and Design</i> , 2009, 9, 707-714.	1.4	12

#	ARTICLE	IF	CITATIONS
401	Titania Nanofilm with Electrical Switching Effects upon Hydrogen/Air Exposure at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6381-6389.	1.5	18
402	Engineering the Spatial Selectivity of Surfaces at the Nanoscale Using Particle Lithography Combined with Vapor Deposition of Organosilanes. <i>ACS Nano</i> , 2009, 3, 2023-2035.	7.3	70
403	Core-Shell Chromium Silicide-Silicon Nanopillars: A Contact Material for Future Nanosystems. <i>ACS Nano</i> , 2009, 3, 3776-3780.	7.3	22
404	Growth, Structural, and Optical Characterization of ZnO-Coated Cellulosic Fibers. <i>Crystal Growth and Design</i> , 2009, 9, 386-390.	1.4	63
405	Ga-Catalyzed Growth and Optical Properties of Ternary Si-ZnS Nanowires. <i>Crystal Growth and Design</i> , 2009, 9, 728-731.	1.4	6
406	Unconventional Lithography for Hierarchical Micro-/Nanostructure Arrays with Well-Aligned 1D Crystalline Nanostructures: Design and Creation Based on the Colloidal Monolayer. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2580-2585.	4.0	24
407	Piezoelectric Properties of AlN, ZnO, and Hg ₂ ZnO Nanowires by First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6883-6886.	1.5	37
408	Confined Self-Assembly of Toric Focal Conic Domains (The Effects of Confined Geometry on the) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	1.6	71
409	Large-Area Fabrication of Patterned ZnO-Nanowire Arrays Using Light Stamping Lithography. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2843-2847.	4.0	6
410	Synthesis and Photoelectrochemical Property of Urchin-like Zn/ZnO Core-Shell Structures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11035-11040.	1.5	73
411	Correlation between photoluminescence and oxygen vacancies in In ₂ O ₃ , SnO ₂ and ZnO metal oxide nanostructures. <i>Journal of Physics: Conference Series</i> , 2009, 188, 012054.	0.3	34
412	Large scale synthesis of fishbone-like ZnS nanostructures using ITO glass as the substrate. <i>Journal of Alloys and Compounds</i> , 2009, 482, L32-L35.	2.8	18
413	Facile fabrication of perovskite single-crystalline LaMnO ₃ nanocubes via a salt-assisted solution combustion process. <i>Journal of Alloys and Compounds</i> , 2009, 484, 846-850.	2.8	31
414	Whispering gallery modes in single triangular ZnO nanorods. <i>Optics Letters</i> , 2009, 34, 2533.	1.7	26
415	Synthesis of large-scale periodic ZnO nanorod arrays and its blue-shift of UV luminescence. <i>Journal of Materials Chemistry</i> , 2009, 19, 962-969.	6.7	48
416	Synthesis of hierarchical hexagonal zinc oxide/zinc aluminium hydroxide heterostructures through epitaxial growth using microwave irradiation. <i>CrystEngComm</i> , 2009, 11, 1650.	1.3	23
417	Simultaneous "Click Chemistry" and Atom Transfer Radical Emulsion Polymerization and Prepared Well-Defined Cross-Linked Nanoparticles. <i>Macromolecules</i> , 2009, 42, 6385-6392.	2.2	48
418	Controlling Morphologies and Tuning the Related Properties of Nano/Microstructured ZnO Crystallites. <i>Journal of Physical Chemistry C</i> , 2009, 113, 584-589.	1.5	349

#	ARTICLE	IF	CITATIONS
419	Growth of ZnO nanowires catalyzed by size-dependent melting of Au nanoparticles. <i>Nanotechnology</i> , 2009, 20, 405603.	1.3	40
420	Synthesis, Characterization, and Photocatalytic Application of Different ZnO Nanostructures in Array Configurations. <i>Crystal Growth and Design</i> , 2009, 9, 3222-3227.	1.4	116
421	Diameter-Controlled Vapor-Solid Epitaxial Growth and Properties of Aligned ZnO Nanowire Arrays. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3950-3954.	1.5	40
422	High-Quality ZnO Nanowire Arrays Directly Fabricated from Photoresists. <i>ACS Nano</i> , 2009, 3, 53-58.	7.3	74
423	<i>Nanomaterials and Nanopackaging</i> , 2009, , 503-545.		2
424	Wet Chemical Approaches to Patterned Arrays of Well-Aligned ZnO Nanopillars Assisted by Monolayer Colloidal Crystals. <i>Chemistry of Materials</i> , 2009, 21, 891-897.	3.2	164
425	Synthesis of Nano-/Microsized KHCO ₃ Fibers via Quick Thermal Process and Its Toughness and Electron-Irradiating Degradation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19439-19444.	1.5	0
426	Novel Single-Crystalline Hierarchical Structured ZnO Nanorods Fabricated via a Wet-Chemical Route: Combined High Gas Sensing Performance with Enhanced Optical Properties. <i>Crystal Growth and Design</i> , 2009, 9, 1716-1722.	1.4	67
427	<i>Sensors Based on Nanostructured Materials</i> , 2009, , .		32
428	Surface Polarity Shielding and Hierarchical ZnO Nano-Architectures Produced Using Sequential Hydrothermal Crystal Synthesis and Thin Film Atomic Layer Deposition. <i>ACS Nano</i> , 2009, 3, 3191-3199.	7.3	87
429	Direct Heteroepitaxy of Vertical InAs Nanowires on Si Substrates for Broad Band Photovoltaics and Photodetection. <i>Nano Letters</i> , 2009, 9, 2926-2934.	4.5	284
430	Geometry dependent current-voltage characteristics of ZnO nanostructures: A combined nonequilibrium Green's function and density functional theory study. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	15
431	Electron optical phonon interaction in equilateral triangular quantum dot and quantum wire. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 405406.	0.7	6
432	<i>Materials for Advanced Packaging</i> , 2009, , .		161
433	Fabrication of Monodisperse Magnetite Hollow Spheres. <i>Journal of Physical Chemistry C</i> , 2009, 113, 900-906.	1.5	201
434	Photoelectrocatalytic materials for environmental applications. <i>Journal of Materials Chemistry</i> , 2009, 19, 5089.	6.7	880
435	Electroluminescence from n-ZnO nanowires/p-GaN heterostructure light-emitting diodes. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	99
436	Nanostructures of Cysteine-Coated CdS Nanoparticles Produced with Two-Particle-Lithography. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5933-5940.	1.5	24

#	ARTICLE	IF	CITATIONS
437	Weak localization and mobility in ZnO nanostructures. <i>Physical Review B</i> , 2009, 80, .	1.1	37
438	Self-Aligned Nanolithography in a Nanogap. <i>Nano Letters</i> , 2009, 9, 2234-2238.	4.5	15
439	Shape tuning of ZnO with ammonium molybdate and their morphology-dependent photoluminescence properties. <i>Journal of Physics: Conference Series</i> , 2009, 188, 012034.	0.3	3
440	Nanostructures of zinc oxide. <i>International Journal of Nanotechnology</i> , 2009, 6, 245.	0.1	27
441	Numerical Study of Liquid Film Microstructure During Spin Coating of Ag Colloidal Suspension. , 2009, , .		0
442	Rapid ZnO nanopillar array growth by microwave assisted heating. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
443	Development of a ZnO-modified Light-Scattering Sensor for the Detection of alcohols. <i>Analytical Sciences</i> , 2010, 26, 443-448.	0.8	4
444	Ascorbate-Assisted Growth of Hierarchical ZnO Nanostructures: Sphere, Spindle, and Flower and Their Catalytic Properties. <i>Langmuir</i> , 2010, 26, 8769-8782.	1.6	179
445	Strain versus Dislocation Model for Understanding the Heteroepitaxial Growth of Nanowires. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2082-2088.	1.5	22
446	Optical and Field-Emission Properties of ZnO Nanostructures Deposited Using High-Pressure Pulsed Laser Deposition. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2863-2869.	4.0	70
447	Patterned growth of vertically aligned silicon nanowire arrays for label-free DNA detection using surface-enhanced Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 3143-3150.	1.9	39
448	Controlled growth of zinc oxide crystals with tunable shape. <i>Journal of Crystal Growth</i> , 2010, 312, 947-952.	0.7	16
449	Preparation and properties of ZnO nanostructures by electrochemical anodization method. <i>Applied Surface Science</i> , 2010, 256, 2557-2562.	3.1	116
450	Large-scale synthesis of flowerlike ZnO nanostructure by a simple chemical solution route and its gas-sensing property. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 206-212.	4.0	203
451	Photovoltaic Properties of p-Doped GaAs Nanowire Arrays Grown on n-Type GaAs(111)B Substrate. <i>Nanoscale Research Letters</i> , 2010, 5, 360-363.	3.1	55
452	Morphologyâ€luminescence correlations in europium-doped ZnO nanomaterials. <i>Journal of Nanoparticle Research</i> , 2010, 12, 217-225.	0.8	14
453	Assisted spray pyrolysis production and characterisation of ZnO nanoparticles with narrow size distribution. <i>Journal of Nanoparticle Research</i> , 2010, 12, 615-622.	0.8	26
454	Fabrication and characterization of nanostructured metallic arrays with multi-shapes in monolayer and bilayer. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1829-1835.	0.8	2

#	ARTICLE	IF	CITATIONS
455	Microstructure and field emission characteristics of ZnO nanoneedles grown by physical vapor deposition. <i>Materials Chemistry and Physics</i> , 2010, 123, 634-638.	2.0	40
456	Synthesis of K-doped p-type ZnO nanorods along (100) for ferroelectric and dielectric applications. <i>Materials Letters</i> , 2010, 64, 1825-1828.	1.3	70
457	Characterization and field emission properties of ZnMgO nanowires fabricated by thermal evaporation process. <i>Solid State Sciences</i> , 2010, 12, 1088-1093.	1.5	50
458	Fabrication and optical properties of two-dimensional photonic crystal of ZnO pillars. <i>Crystal Research and Technology</i> , 2010, 45, 393-397.	0.6	0
459	Characterization of ZnO nanorods grown on Si substrates coated with NiCl ₂ . <i>Crystal Research and Technology</i> , 2010, 45, 988-992.	0.6	1
460	Structure and Metal-Insulator Transition of VO ₂ Nanowires Grown on Sapphire Substrates. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4332-4338.	1.0	14
461	Growth and Transfer of Monolithic Horizontal ZnO Nanowire Superstructures onto Flexible Substrates. <i>Advanced Functional Materials</i> , 2010, 20, 1493-1497.	7.8	38
462	Electrically Addressable Hybrid Architectures of Zinc Oxide Nanowires Grown on Aligned Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2010, 20, 2470-2480.	7.8	69
463	Polymer-Templated Hydrothermal Growth of Vertically Aligned Single-Crystal ZnO Nanorods and Morphological Transformations Using Structural Polarity. <i>Advanced Functional Materials</i> , 2010, 20, 3055-3063.	7.8	113
464	Heteroepitaxial Patterned Growth of Vertically Aligned and Periodically Distributed ZnO Nanowires on GaN Using Laser Interference Ablation. <i>Advanced Functional Materials</i> , 2010, 20, 3484-3489.	7.8	51
465	Colloidal-Crystal-Assisted Patterning of Crystalline Materials. <i>Advanced Materials</i> , 2010, 22, 1494-1497.	11.1	30
466	Colloidal Self-Assembly Meets Nanofabrication: From Two-Dimensional Colloidal Crystals to Nanostructure Arrays. <i>Advanced Materials</i> , 2010, 22, 4249-4269.	11.1	577
467	Diving-Surfacing Cycle Within a Stimulus-Responsive Smart Device Towards Developing Functionally Cooperating Systems. <i>Advanced Materials</i> , 2010, 22, 5125-5128.	11.1	49
468	Multidimensional Nanostructures for Solar Water Splitting: Synthesis, Properties, and Applications. , 0, , 459-505.		0
469	Orientation and Dynamics of ZnO Nanorod Liquid Crystals in Electric Fields. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1101-1107.	2.0	38
470	Influence of Fe-doping on the structural and optical properties of ZnO thin films prepared by sol-gel method. <i>Journal of Crystal Growth</i> , 2010, 312, 851-855.	0.7	157
471	Genetic patterns of Zn ₂ GeO ₄ coated ZnO nanowires from phase texture distribution of biphasic brass substrate. <i>Journal of Crystal Growth</i> , 2010, 312, 2479-2483.	0.7	2
472	In ₂ O ₃ nanorod arrays grown at grain-boundary triple junctions of Cu-Sn alloy substrate. <i>Journal of Crystal Growth</i> , 2010, 312, 3401-3405.	0.7	1

#	ARTICLE	IF	CITATIONS
473	Effects of gold catalysts and thermal evaporation method modifications on the growth process of Zn _{1-x} Mg _x O nanowires. <i>Journal of Solid State Chemistry</i> , 2010, 183, 1733-1739.	1.4	43
474	Synthesis and applications of one-dimensional semiconductors. <i>Progress in Materials Science</i> , 2010, 55, 563-627.	16.0	450
475	Formamide driven synthesis of well-aligned ZnO nanorod arrays on glass substrate. <i>Materials Science in Semiconductor Processing</i> , 2010, 13, 115-118.	1.9	4
476	Hierarchically ordered porous nickel oxide array film with enhanced electrochemical properties for lithium ion batteries. <i>Electrochemistry Communications</i> , 2010, 12, 890-893.	2.3	96
477	Kinetic investigation of the electrochemical synthesis of vertically-aligned periodic arrays of silicon nanorods on (001)Si substrate. <i>Thin Solid Films</i> , 2010, 518, S190-S195.	0.8	16
478	Hydrophobic ZnO nanostructured thin films on glass substrate by simple successive ionic layer absorption and reaction (SILAR) method. <i>Thin Solid Films</i> , 2010, 518, e183-e186.	0.8	24
479	Colloidal lithography and Metal-Organic Chemical Vapor Deposition process integration to fabricate ZnO nanohole arrays. <i>Thin Solid Films</i> , 2010, 518, 4484-4488.	0.8	4
480	Structural transformation and crystallization of amorphous copper phthalocyanine nanostructures. <i>Thin Solid Films</i> , 2010, 518, 6720-6728.	0.8	11
481	Microstructural evolution of sol-gel derived ZnO thin films. <i>Thin Solid Films</i> , 2010, 518, 6792-6798.	0.8	39
482	Synthesis of 1-dimensional ZnO and its sensing property for CO. <i>Sensors and Actuators B: Chemical</i> , 2010, 143, 620-628.	4.0	76
483	Room temperature ferromagnetism in ZnO (core)/graphite (shell) nanowires fabricated by a one-step method. <i>Solid State Communications</i> , 2010, 150, 1182-1186.	0.9	6
484	Glycine-assisted hydrothermal synthesis of peculiar porous γ -Fe ₂ O ₃ nanospheres with excellent gas-sensing properties. <i>Analytica Chimica Acta</i> , 2010, 659, 266-273.	2.6	54
485	Effect of source temperature on the morphology and photoluminescence properties of ZnO nanostructures. <i>Applied Surface Science</i> , 2010, 256, 5957-5960.	3.1	14
486	Formation of aligned ZnO nanorods on self-grown ZnO template and its enhanced field emission characteristics. <i>Applied Surface Science</i> , 2010, 256, 6157-6163.	3.1	56
487	Synthesis and optical characterization of vertically grown ZnO nanowires in high crystallinity through vapor-liquid-solid growth mechanism. <i>Applied Surface Science</i> , 2010, 257, 1454-1456.	3.1	38
488	Light-trapping effects and dye adsorption of ZnO hemisphere-array surface containing growth-hindered nanorods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 363, 22-29.	2.3	42
489	Electrical and gas sensing properties of ZnO nanorod arrays directly grown on a four-probe electrode system. <i>Electrochemistry Communications</i> , 2010, 12, 475-478.	2.3	54
490	Improved electrochromic performance of hierarchically porous Co ₃ O ₄ array film through self-assembled colloidal crystal template. <i>Electrochimica Acta</i> , 2010, 55, 989-994.	2.6	41

#	ARTICLE	IF	CITATIONS
491	Design of a hierarchical structure of ZnO by electrochemistry for ZnO-based dye-sensitized solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2252-2257.	0.8	23
492	Structural characterization of one-dimensional ZnO-based nanostructures grown by MOCVD. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1683-1686.	0.7	10
493	ZnO nanowire arrays – Pattern generation, growth and applications. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2305-2314.	0.7	32
494	Fabrication of Zn(OH) ₂ /ZnO Nanosheet-ZnO Nanoarray Hybrid Structured Films by a Dissolution-Recrystallization Route. <i>Journal of the American Ceramic Society</i> , 2010, 93, 881-886.	1.9	20
495	Large area laser interference patterning for periodic growth of individual ZnO nanowires. , 2010, , .		0
496	Reversible Surface Wettability Conversion of ZnO Film. <i>Key Engineering Materials</i> , 2010, 434-435, 420-422.	0.4	0
497	Generation and amplification of terahertz electromagnetic waves in a plasma waveguide with a dielectric rod and an annular degenerate plasma. <i>Waves in Random and Complex Media</i> , 2010, 20, 472-490.	1.6	14
498	Selective growth and piezoelectric properties of highly ordered arrays of vertical ZnO nanowires on ultrathin alumina membranes. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	12
499	Nanostructured transition metal oxides and their applications in composites. , 2010, , 723-742.		3
500	Fabrication of highly ordered porous nickel phosphide films and their application as anode for lithium ion batteries. , 2010, , .		0
501	Preparation and optical properties of ZnO nanostructures. , 2010, , .		0
502	Fabrication of ZnO photonic crystals by nanosphere lithography using inductively coupled-plasma reactive ion etching with CH ₄ /H ₂ /Ar plasma on the ZnO/GaN heterojunction light emitting diodes. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010, 28, 745-749.	0.9	8
503	Synthesis and Comparative Study of ZnO Nanorods for Structural, Optical and Dielectric Behaviour. <i>Integrated Ferroelectrics</i> , 2010, 118, 61-66.	0.3	2
504	Fluorescence enhancement of the organic light-emitting material based on self-assembly technology. , 2010, , .		0
505	Energy Harvesting Using Piezoceramics. , 2010, , .		0
506	Towards an elastic model of wurtzite AlN nanowires. <i>Nanotechnology</i> , 2010, 21, 255702.	1.3	24
507	Fabrication of high-compact nanowires using alternating photoresist ashing and spacer technology. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 085029.	1.5	3
508	Growth Analysis of Hierarchical ZnO Nanorod Array with Changed Diameter from the Aspect of Supersaturation Ratio. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3932-3936.	1.5	27

#	ARTICLE	IF	CITATIONS
509	Iridescence of Patterned Carbon Nanotube Forests on Flexible Substrates: From Darkest Materials to Colorful Films. <i>ACS Nano</i> , 2010, 4, 1327-1336.	7.3	38
510	Local piezoelectric properties of ZnO thin films prepared by RF-plasma-assisted pulsed-laser deposition method. <i>Nanotechnology</i> , 2010, 21, 235703.	1.3	54
511	Mechanical Energy Harvesting Using Wurtzite Nanowires. , 2010, , 185-216.		0
512	Optical and Excitonic Properties of Crystalline ZnS Nanowires: Toward Efficient Ultraviolet Emission at Room Temperature. <i>Nano Letters</i> , 2010, 10, 4956-4961.	4.5	114
513	Compensation mechanism in N-doped ZnO nanowires. <i>Nanotechnology</i> , 2010, 21, 245703.	1.3	43
514	MORPHOLOGICAL AND OPTICAL CHARACTERIZATION OF ELECTROSPUN ZINC OXIDE NANOFIBERS. <i>Functional Materials Letters</i> , 2010, 03, 141-145.	0.7	11
515	Synthesis Mechanisms of Organized Gold Nanoparticles: Influence of Annealing Temperature and Atmosphere. <i>Crystal Growth and Design</i> , 2010, 10, 587-596.	1.4	122
516	Surface Functionalization of Zinc Oxide by Carboxyalkylphosphonic Acid Self-Assembled Monolayers. <i>Langmuir</i> , 2010, 26, 4514-4522.	1.6	126
517	Generation of Dual Patterns of Metal Oxide Nanomaterials Based on Seed-Mediated Selective Growth. <i>Langmuir</i> , 2010, 26, 4616-4619.	1.6	12
518	Controllable construction of ZnO/TiO ₂ patterning nanostructures by superhydrophilic/superhydrophobic templates. <i>New Journal of Chemistry</i> , 2010, 34, 44-51.	1.4	44
519	Facile hydrothermal preparation of hierarchically assembled, porous single-crystalline ZnO nanoplates and their application in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 1001-1006.	6.7	137
520	Electronic structure and magnetic properties of Mn-doped ZnO nanotubes: An ab initio study. <i>Journal of Applied Physics</i> , 2010, 108, 084308.	1.1	21
521	Fabrication and Characterization of Gold-Polymer Nanocomposite Plasmonic Nanoarrays in a Porous Alumina Template. <i>ACS Nano</i> , 2010, 4, 2249-2255.	7.3	66
522	Influence of the Terminal Substituent of Azobenzene on the Liquid Crystalline Property of ABA Triblock Copolymers. <i>Key Engineering Materials</i> , 0, 428-429, 122-125.	0.4	0
523	Interconnected Networks of Zn(NO ₃) ₂ ·6(H ₂ O) Nanotubes and Its Solid-Phase Transformation into Porous Zinc Oxide Architectures. <i>Chemistry of Materials</i> , 2010, 22, 1533-1539.	3.2	17
524	Fabrication and Luminescence of Designer Surface Patterns with β -Cyclodextrin Functionalized Quantum Dots via Multivalent Supramolecular Coupling. <i>ACS Nano</i> , 2010, 4, 137-142.	7.3	68
525	Wafer-Scale High-Throughput Ordered Growth of Vertically Aligned ZnO Nanowire Arrays. <i>Nano Letters</i> , 2010, 10, 3414-3419.	4.5	175
526	Hydrothermally Synthesized Aligned Arrays of Self-Assembled Multiwalled Hydrogen Titanate Nanotubes. <i>Crystal Growth and Design</i> , 2010, 10, 1215-1220.	1.4	30

#	ARTICLE	IF	CITATIONS
527	Self-Oriented Single Crystalline Silicon Nanorod Arrays through a Chemical Vapor Reaction Route. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2471-2475.	1.5	2
528	From Preannealing of Bilayer Catalysts To Explore the Growth Micromechanisms of ZnO Nanorods. <i>Crystal Growth and Design</i> , 2010, 10, 977-982.	1.4	8
529	Enhanced Optical and Sensing Properties of One-Step Synthesized Pt/ZnO Nanoflowers. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18607-18611.	1.5	74
530	Solution-Based Epitaxial Growth of ZnO Nanoneedles on Single-Crystalline Zn Plates. <i>Crystal Growth and Design</i> , 2010, 10, 1289-1295.	1.4	21
531	Aminosilane Micropatterns on Hydroxyl-Terminated Substrates: Fabrication and Applications. <i>Langmuir</i> , 2010, 26, 5603-5609.	1.6	98
532	Photoluminescent ZnO nanoparticles modified by polymers. <i>Journal of Materials Chemistry</i> , 2010, 20, 4251.	6.7	151
533	Phonon dispersion relations of zinc oxide: Inelastic neutron scattering and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2010, 81, .	1.1	85
534	Synthesis and multicolor upconversion of Tm ³⁺ /Er ³⁺ /Yb ³⁺ doped Na (Y _{1.5} Na _{0.5}) F ₆ single-crystal nanorods. <i>Journal of Alloys and Compounds</i> , 2010, 493, 476-480.	2.8	16
535	Fabrication of well-aligned and dumbbell-shaped hexagonal ZnO nanorod arrays and their dye sensitized solar cell applications. <i>Journal of Alloys and Compounds</i> , 2010, 503, L40-L43.	2.8	44
537	Cobalt Oxide Ordered Bowl-Like Array Films Prepared by Electrodeposition through Monolayer Polystyrene Sphere Template and Electrochromic Properties. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 186-192.	4.0	118
538	Solution synthesis of one-dimensional ZnO nanomaterials and their applications. <i>Nanoscale</i> , 2010, 2, 1573.	2.8	313
539	Vertically aligned and ordered hematite hierarchical columnar arrays for applications in field-emission, superhydrophilicity, and photocatalysis. <i>Journal of Materials Chemistry</i> , 2010, 20, 2972.	6.7	66
540	Metal-catalyzed semiconductor nanowires: a review on the control of growth directions. <i>Semiconductor Science and Technology</i> , 2010, 25, 024005.	1.0	219
541	Low-Temperature Growth of ZnO Nanowire Arrays on p-Silicon (111) for Visible-Light-Emitting Diode Fabrication. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14781-14785.	1.5	58
542	Zinc Oxide Nanowire Arrays on Flexible Substrates. , 2010, , 197-226.		4
543	ZnO Pyramidal Arrays: Novel Functionality in Antireflection. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10265-10269.	1.5	29
544	Novel zinc oxide twins with perfect mirror symmetry by solvothermal synthesis method. <i>CrystEngComm</i> , 2010, 12, 685-687.	1.3	9
545	Nano-Bio- Electronic, Photonic and MEMS Packaging. , 2010, , .		38

#	ARTICLE	IF	CITATIONS
546	A Novel Excitation Control Equipment Design of Synchronous Motor. , 2010, , .		0
547	Local electromechanical properties of ZnO thin films and micro crystals. Materials Research Society Symposia Proceedings, 2010, 1256, 1.	0.1	1
548	Tuning the lateral density of ZnO nanowire arrays and its application as physical templates for radial nanowire heterostructures. Journal of Materials Chemistry, 2010, 20, 3848.	6.7	27
549	Biofunctional colloids and their assemblies. Soft Matter, 2010, 6, 1092.	1.2	32
550	Twinning mediated growth of ZnSe tri- and bi-crystal nanobelts with single crystalline wurtzite nanobelts as building blocks. CrystEngComm, 2010, 12, 150-158.	1.3	9
551	Static and dynamic control of phase separation structures in nanoparticles of polymer blends. Soft Matter, 2010, 6, 1253.	1.2	64
552	Morphology Control of Zinc Oxide Nanocrystals via Hybrid Laser/Hydrothermal Synthesis. Journal of Physical Chemistry C, 2010, 114, 12931-12937.	1.5	12
553	Fabrication of nanowires with high aspect ratios utilized by dry etching with SF ₆ :C ₄ F ₈ and self-limiting thermal oxidation on Si substrate. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 763-768.	0.6	13
554	Field electron emission from hydrogen plasma treated nano-ZnO thin films. , 2010, , .		0
555	High-index facets bound ripple-like ZnO nanobelts grown by chemical vapor deposition. CrystEngComm, 2011, 13, 5052.	1.3	13
556	A catalyst-free and facile route to periodically ordered and c-axis aligned ZnO nanorod arrays on diverse substrates. Nanoscale, 2011, 3, 1675.	2.8	25
557	Self-assembly of [101̄,0] grown ZnO nanowhiskers with exposed reactive (0001) facets on hollow spheres and their enhanced gas sensitivity. CrystEngComm, 2011, 13, 3425.	1.3	45
558	Formation of SiGe Nanorod arrays by combining nanosphere lithography and Au-assisted chemical etching. , 2011, , .		0
559	Photochemical construction of free-standing Sn-filled SnO ₂ nanotube array on a solution surface for flexible use in photocatalysis. Journal of Materials Chemistry, 2011, 21, 12407.	6.7	26
560	Recent progress on surface pattern fabrications based on monolayer colloidal crystal templates and related applications. Nanoscale, 2011, 3, 2768.	2.8	62
561	Green synthesis of well-defined spherical PbS quantum dots and its potential in biomedical imaging research and biosensing. , 2011, , .		5
562	Fabrication and Photoresponse of Supramolecular Liquidâˆ™Crystalline Microparticles. ACS Applied Materials & Interfaces, 2011, 3, 1333-1340.	4.0	48
563	Atomistic Mechanisms and Diameter Selection during Nanorod Growth. Journal of Physical Chemistry C, 2011, 115, 31-36.	1.5	13

#	ARTICLE	IF	CITATIONS
564	Subwavelength Direct Laser Patterning of Conductive Gold Nanostructures by Simultaneous Photopolymerization and Photoreduction. ACS Nano, 2011, 5, 1947-1957.	7.3	110
565	Ultrafast electron-phonon coupling in hollow gold nanospheres. Physical Chemistry Chemical Physics, 2011, 13, 21585.	1.3	29
566	Controllable Fabrication of Three-Dimensional Radial ZnO Nanowire/Silicon Microrod Hybrid Architectures. Crystal Growth and Design, 2011, 11, 147-153.	1.4	52
567	Transition in the Optical Emission Polarization of ZnO Nanorods. Journal of Physical Chemistry C, 2011, 115, 15862-15867.	1.5	44
568	Scanning tunneling microscope investigation of local density of states in Al-doped ZnO thin films. Physical Review B, 2011, 83, .	1.1	19
569	Theoretical investigation of growth, stability, and electronic properties of beaded ZnO nanoclusters. Journal of Materials Chemistry, 2011, 21, 16905.	6.7	34
570	Multifunctional transparent ZnO nanorod films. Nanotechnology, 2011, 22, 115705.	1.3	36
571	Polystyrene sphere-assisted one-dimensional nanostructure arrays: synthesis and applications. Journal of Materials Chemistry, 2011, 21, 40-56.	6.7	151
572	Violet-blue LEDs based on p-GaN/n-ZnO nanorods and their stability. Nanotechnology, 2011, 22, 245202.	1.3	43
573	Synthesis of BiFeO ₃ /ZnO core-shell hetero-structures using ZnO nanorod positive templates. Nanotechnology, 2011, 22, 115605.	1.3	21
574	Al-Doped Zinc Oxide Nanocomposites with Enhanced Thermoelectric Properties. Nano Letters, 2011, 11, 4337-4342.	4.5	405
575	Zinc oxide core-shell hollow microspheres with multi-shelled architecture for gas sensor applications. Journal of Materials Chemistry, 2011, 21, 19331.	6.7	100
576	Novel Ga-doped, self-supported, independent aligned ZnO nanorods: one-pot hydrothermal synthesis and structurally enhanced photocatalytic performance. RSC Advances, 2011, 1, 1691.	1.7	23
577	ZnO Nanomaterials Grown with Fe-Based Catalysts. Journal of Physical Chemistry C, 2011, 115, 12260-12268.	1.5	9
578	White light emission from CdTe quantum dots decorated n-ZnO nanorods/p-GaN light-emitting diodes. Applied Physics Letters, 2011, 99, .	1.5	28
579	ZnO nanobarbed fibers: Fabrication, sensing NO ₂ gas, and their sensing mechanism. Applied Physics Letters, 2011, 98, .	1.5	56
580	Improved seedless hydrothermal synthesis of dense and ultralong ZnO nanowires. Nanotechnology, 2011, 22, 245601.	1.3	105
581	Highly ordered defect arrays of 8CB (4'-n-octyl-4-cyano-biphenyl) liquid crystal via template-assisted self-assembly. Journal of Materials Chemistry, 2011, 21, 18381.	6.7	17

#	ARTICLE	IF	CITATIONS
582	Simple ZnO Nanowires Patterned Growth by Microcontact Printing for High Performance Field Emission Device. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11435-11441.	1.5	91
583	Experimental Design Applied to Spin Coating of 2D Colloidal Crystal Masks: A Relevant Method?. <i>Langmuir</i> , 2011, 27, 12800-12806.	1.6	84
584	Highly sensitive hydrogen detection of catalyst-free ZnO nanorod networks suspended by lithography-assisted growth. <i>Nanotechnology</i> , 2011, 22, 085502.	1.3	34
585	Nanotechnology Research Directions for Societal Needs in 2020. , 2011, , .		202
586	Dielectrophoresis-Assembled ZnO Nanowire Oxygen Sensors. <i>IEEE Electron Device Letters</i> , 2011, 32, 982-984.	2.2	25
587	Suspended and localized single nanostructure growth across a nanogap by an electric field. <i>Nanotechnology</i> , 2011, 22, 405301.	1.3	8
588	Electrochemical synthesis using a self-assembled Au nanoparticle template of dendritic films with unusual wetting properties. <i>Nanotechnology</i> , 2011, 22, 205301.	1.3	21
589	High performance field-effect transistors fabricated with laterally grown ZnO nanorods in solution. <i>Nanotechnology</i> , 2011, 22, 185310.	1.3	39
590	An all-inorganic type-II heterojunction array with nearly full solar spectral response based on ZnO/ZnSe core/shell nanowires. <i>Journal of Materials Chemistry</i> , 2011, 21, 6020.	6.7	120
591	Electrodeposition from ZnO nano-rods to nano-sheets with only zinc nitrate electrolyte and its photoluminescence. <i>Applied Surface Science</i> , 2011, 257, 10317-10321.	3.1	63
592	Hydrothermal synthesis and ferromagnetism of CuO nanosheets. <i>Applied Surface Science</i> , 2011, 257, 9678-9681.	3.1	35
593	Development of film sensors based on ZnO nanoparticles for amine gas detection. <i>Applied Surface Science</i> , 2011, 258, 254-259.	3.1	21
594	Controlled synthesis of oriented ZnO nanorod arrays by seed-layer-free electrochemical deposition. <i>Applied Surface Science</i> , 2011, 258, 1491-1494.	3.1	37
595	Physics and applications of aligned carbon nanotubes. <i>Advances in Physics</i> , 2011, 60, 553-678.	35.9	128
596	Facile synthesis of ZnO nanobullets/nanoflakes and their applications to dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2011, 509, 961-965.	2.8	55
597	Intense blue photoluminescence of the Tm ³⁺ /Yb ³⁺ co-doped single-crystalline hexagonal phase NaYF ₄ nanorods. <i>Journal of Alloys and Compounds</i> , 2011, 509, 2540-2543.	2.8	20
598	Enhanced ferroelectric, dielectric and optical behavior in Li-doped ZnO nanorods. <i>Journal of Alloys and Compounds</i> , 2011, 509, L208-L212.	2.8	48
599	Catalyst-free synthesis of ZnO microrod arrays on SiC substrate and their tunable photoluminescence by erosion process. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6942-6945.	2.8	6

#	ARTICLE	IF	CITATIONS
600	Fabrication of Patterned Polymer Nanowire Arrays. ACS Nano, 2011, 5, 1476-1482.	7.3	28
601	Raman Scattering Enhanced by Plasmonic Near-Field of Randomly Grown ZnO Nanorods Template. The Review of Laser Engineering, 2011, 39, 178-183.	0.0	0
602	Templated electrodeposition of single-crystal ZnO nanorods. , 2011, , .		0
604	Growth of Intricate ZnO Nanorod Networks on Fe_2O_3 -Coated Si Substrate: Growth Mechanism and Optical Properties. Journal of the American Ceramic Society, 2011, 94, 1992-1994.	1.9	1
605	Fabrication of ZnO submicrorod films with water repellency by surface etching and hydrophobic modification. Thin Solid Films, 2011, 519, 7813-7816.	0.8	17
606	Development of flexible piezoelectric nanogenerator: Toward all wet chemical method. Microelectronic Engineering, 2011, 88, 3015-3019.	1.1	11
607	3D flowerlike ZnO micro-nanostructures via site-specific second nucleation in the zinc-ethylenediamine-hexamethylenetetramine tertiary system. Materials Science in Semiconductor Processing, 2011, 14, 193-198.	1.9	9
608	Optical properties of sol-gel synthesized calcium doped ZnO nanostructures. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 82, 97-101.	2.0	51
609	Novel zinc oxide hexagonal prisms induced by polar surfaces. Materials Characterization, 2011, 62, 593-598.	1.9	7
610	Transition metal oxide nanowires synthesized by heating metal substrates. Materials Research Bulletin, 2011, 46, 2120-2124.	2.7	11
611	Facile template-free fabrication of olive-like ZnO nanoparticles and their photoluminescence properties. Materials Letters, 2011, 65, 507-509.	1.3	4
612	Electrospinning of CeO_2 -ZnO composite nanofibers and their photocatalytic property. Materials Letters, 2011, 65, 1327-1330.	1.3	109
613	Fabrication of highly ordered nanoscale poly (lactic acid) surface based on self-assembled silica microspheres. Materials Letters, 2011, 65, 2861-2863.	1.3	2
614	Microstructural and optical properties of spherical lead sulphide quantum dots-based optical sensors. Micro and Nano Letters, 2011, 6, 161.	0.6	23
615	Fabrication of ultrahigh-density nanowires by electrochemical nanolithography. Nanoscale Research Letters, 2011, 6, 444.	3.1	7
616	Room-temperature nonequilibrium growth of controllable ZnO nanorod arrays. Nanoscale Research Letters, 2011, 6, 477.	3.1	10
617	NH_4^+ directed assembly of zinc oxide micro-tubes from nanoflakes. Nanoscale Research Letters, 2011, 6, 491.	3.1	13
618	Electrodeposition of Cu-doped ZnO nanowire arrays and heterojunction formation with p-GaN for color tunable light emitting diode applications. Electrochimica Acta, 2011, 56, 10543-10549.	2.6	83

#	ARTICLE	IF	CITATIONS
619	Mechanism of formation of urchin-like ZnO. <i>Electrochimica Acta</i> , 2011, 56, 9532-9536.	2.6	11
620	Polymers in conventional and alternative lithography for the fabrication of nanostructures. <i>European Polymer Journal</i> , 2011, 47, 2033-2052.	2.6	152
621	Laser Fabrication of Large-Scale Nanoparticle Arrays for Sensing Applications. <i>ACS Nano</i> , 2011, 5, 4843-4849.	7.3	224
622	Synthesis, characterization and growth mechanism of ZnO nanowires on NiCl ₂ -coated Si substrates. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 765-770.	1.1	1
623	General approach for fabricating nanoparticle arrays via patterned block copolymer nanoreactors. <i>Journal of Nanoparticle Research</i> , 2011, 13, 1-13.	0.8	29
624	CdS quantum dot-sensitized ZnO nanorod-based photoelectrochemical solar cells. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3267-3273.	0.8	30
625	Synthesis and crystal structures of two homo- and heteronuclear 1D nanochain coordination polymers constructed from Zn(II)/Co(II) with N-phosphonomethyl-1,3-thiazolidine-4-carboxylic acid ligand. <i>Transition Metal Chemistry</i> , 2011, 36, 157-161.	0.7	3
626	Experimental evidence and physical understanding of ZnO vapor-liquid-solid nanowire growth. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 319-323.	1.1	19
627	Hierarchical ZnO microrods: synthesis, structure, optical and photocatalytic properties. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 1229-1235.	1.1	16
628	ZnO quantum dot labeled immunosensor for carbohydrate antigen 19-9. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2720-2723.	5.3	104
629	A facile hydrothermal preparation and photoluminescence study of ZnO micro/nanostructures on Zn foils. <i>Science China Chemistry</i> , 2011, 54, 1547-1551.	4.2	2
630	Zinc oxide nanostructures and their applications. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1797-1813.	1.2	125
631	A simple route to vertical array of quasi-1D ZnO nanofilms on FTO surfaces: 1D-crystal growth of nanoseeds under ammonia-assisted hydrolysis process. <i>Nanoscale Research Letters</i> , 2011, 6, 564.	3.1	18
632	Catalytic growth of hexagonally aligned ZnO nanorods. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1915-1918.	0.7	5
633	Preparation of silver nanoparticles on zinc oxide nanowires by photocatalytic reduction for use in surface-enhanced Raman scattering measurements. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 339-344.	1.2	15
634	Easy Fabrication and Morphology Control of Supramolecular Liquid-Crystalline Polymer Microparticles. <i>Macromolecular Rapid Communications</i> , 2011, 32, 378-383.	2.0	33
635	Excitonic Properties and Near-Infrared Coherent Random Lasing in Vertically Aligned CdSe Nanowires. <i>Advanced Materials</i> , 2011, 23, 1404-1408.	11.1	70
636	Size-Tailored ZnO Submicrometer Spheres: Bottom-Up Construction, Size-Related Optical Extinction, and Selective Aniline Trapping. <i>Advanced Materials</i> , 2011, 23, 1865-1870.	11.1	119

#	ARTICLE	IF	CITATIONS
637	Room Temperature Excitonic Whispering Gallery Mode Lasing from High-Quality Hexagonal ZnO Microdisks. <i>Advanced Materials</i> , 2011, 23, 2199-2204.	11.1	236
638	Structure-controlled growth of ZnO nanonails by thermal evaporation technique. <i>Crystal Research and Technology</i> , 2011, 46, 991-996.	0.6	6
640	Synthesis and Oxygen Storage Capacity of Two-Dimensional Ceria Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4378-4381.	7.2	164
641	Effect of silica doping on the densification and grain growth in zinc oxide. <i>Ceramics International</i> , 2011, 37, 2679-2687.	2.3	9
642	Control of ZnO nanowire arrays by nanosphere lithography (NSL) on laser-produced ZnO substrates. <i>Applied Surface Science</i> , 2011, 257, 5159-5162.	3.1	11
643	Hydrothermal synthesis and characterization of ZnO films with different nanostructures. <i>Applied Surface Science</i> , 2011, 257, 5563-5565.	3.1	36
644	Liquid phase synthesis of ZnO microrods highly oriented on the hexagonal ZnO sheets. <i>Advanced Powder Technology</i> , 2011, 22, 271-276.	2.0	6
645	Synthesis and gas sensor properties of flower-like 3D ZnO microstructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 611-615.	1.7	27
646	Field emission and optical properties of Ga-doped ZnO nanowires synthesized via thermal evaporation. <i>Applied Surface Science</i> , 2011, 257, 3145-3151.	3.1	40
647	Zn-catalyzed growth processes and ferromagnetism of Mn-doped ZnO nanorods on Si substrate. <i>Applied Surface Science</i> , 2011, 257, 5017-5020.	3.1	9
648	ZnO-based hollow microspheres with mesoporous shells: Polyoxometalate-assisted fabrication, growth mechanism and photocatalytic properties. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1373-1380.	1.4	26
649	Controllable synthesis and luminescent properties of three-dimensional nanostructured CaWO ₄ :Tb ³⁺ microspheres. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 586-592.	5.0	58
650	Polymer nanoparticles: Preparation techniques and size-control parameters. <i>Progress in Polymer Science</i> , 2011, 36, 887-913.	11.8	1,353
651	Structural and electronic properties of ZnS/ZnO heteronanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1522-1527.	1.3	7
652	Assembling nanoparticle catalysts with nanospheres for periodic carbon nanotube structure growth. <i>Nanotechnology</i> , 2011, 22, 035301.	1.3	3
653	Fabrication, Microstructure and Properties of Zinc Oxide Nanowhisker Reinforced Lead Zirconate Titanate Nanocomposites. <i>Current Nanoscience</i> , 2011, 7, 227-234.	0.7	14
654	Functional semiconductor nanowires via vapor deposition. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, 060801.	0.6	18
655	Uniaxial tensile strain and exciton-phonon coupling in bent ZnO nanowires. <i>Applied Physics Letters</i> , 2011, 98, 241916.	1.5	42

#	ARTICLE	IF	CITATIONS
656	Energetic regimes and growth mechanisms of pulsed laser deposited Pd clusters on Au(111) investigated by in situ scanning tunneling microscopy. <i>Physical Review B</i> , 2011, 84, .	1.1	10
657	<i>In situ</i> characterization of one-dimensional plasmonic Ag nanocluster arrays. <i>Physical Review B</i> , 2011, 83, .	1.1	21
658	Growth, Characterization, and Polarity Identification of (0001) Zn _{1-x} Mg _x O Epitaxial Films on Lattice-Matched ¹² LiGaO ₂ (001) Substrates. <i>Journal of the Electrochemical Society</i> , 2011, 158, D28.	1.3	8
659	Electrochemical Synthesis for Uniform and Large-Scale Zinc Oxide Nano Structure Films. <i>Advanced Materials Research</i> , 0, 194-196, 429-435.	0.3	0
660	Realization of cylindrical submicron shell arrays by diffraction-introduced photolithography. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 085004.	1.5	5
661	Growth of Ruthenium and Ruthenium oxide nanoplates. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1309, 133.	0.1	0
662	Synthesis of ZnO films with a special texture and enhanced field emission properties. <i>Chinese Physics B</i> , 2011, 20, 105203.	0.7	7
663	Influence of morphologies on the field emission performance of oriented ZnO nano-arrays. <i>Journal of Semiconductors</i> , 2011, 32, 123001.	2.0	4
664	Monitoring Supramolecular Self-Assembly using Time-Resolved Fluorescence Spectroscopy. <i>Australian Journal of Chemistry</i> , 2011, 64, 825.	0.5	2
665	ULTRAFINE ZnO NANOWIRES GROWN ON PATTERNABLE Pd CATALYST AND THEIR SOURCE-ENERGY DEPENDENT PHOTOLUMINESCENCE. <i>International Journal of Nanoscience</i> , 2011, 10, 699-705.	0.4	2
666	Size-dependent elastic properties of single-walled ZnO nanotubes: A first-principles study. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	11
667	DUMBBELL-SHAPED ZnO NANORODS: GROWTH AND CHARACTERIZATION. <i>International Journal of Nanoscience</i> , 2011, 10, 87-92.	0.4	9
668	Green synthesis and characterisation of spherical PbS luminescent micro- and nanoparticles via wet chemical technique. <i>Advances in Applied Ceramics</i> , 2011, 110, 30-34.	0.6	33
669	Growth Behaviors of ZnO Nanorods Grown with the Sn-Based Bilayer Catalyst-Covered Substrates. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-9.	1.5	5
670	Preparation and Characterization of Antibacterial Cap-Shaped Gold Nanoparticles. <i>Advanced Materials Research</i> , 0, 459, 360-363.	0.3	0
671	Growth of the Sol-Gel Based ZnO:Al Thin Films with High Doping Concentration. <i>Advanced Materials Research</i> , 0, 485, 144-148.	0.3	2
672	Micromechanism and Kinetic Formulation of Vertically Aligned ZnO Nanorods Grown on Catalytic Bilayers. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-11.	1.5	1
673	Polymer Matrix Nanocomposites and Nanostructured Materials. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-2.	1.5	0

#	ARTICLE	IF	CITATIONS
674	Doped Colloidal ZnO Nanocrystals. Journal of Nanomaterials, 2012, 2012, 1-8.	1.5	7
675	Growth of <i>b</i> -Axis-Oriented BaTi ₂ O ₅ Nanopillars by Laser Chemical Vapor Deposition. Key Engineering Materials, 2012, 508, 185-188.	0.4	3
676	Nanostructured ZnO Arrays with Self-ZnO Layer Created Using Simple Electrostatic Layer-by-Layer Assembly. Journal of Nanomaterials, 2012, 2012, 1-6.	1.5	2
677	ACETONE SENSING PROPERTIES OF HIERARCHICAL ZnO URCHINLIKE STRUCTURES BY HYDROTHERMAL PROCESS. Biomedical Engineering - Applications, Basis and Communications, 2012, 24, 99-103.	0.3	7
678	Synthesis and Optical Properties of ZnO Nanoparticles in Submicron PS Hollow Reactors. Chinese Journal of Chemical Physics, 2012, 25, 719-724.	0.6	0
679	Synthesis of ZnO nanoflower arrays on patterned sapphire by aqueous solutions. , 2012, , .		2
680	Hydrothermal zinc oxide nanowire growth with different zinc salts. Journal of Materials Research, 2012, 27, 2401-2407.	1.2	7
681	Comparative study of ultraviolet detectors based on ZnO nanostructures grown on different substrates. Journal of Applied Physics, 2012, 112, 074510.	1.1	37
682	Zn-catalysed growth and optical properties of modulated ZnO hierarchical nanostructures. Journal of Experimental Nanoscience, 2012, 7, 513-519.	1.3	4
683	Structural and electrical properties of single Ga/ZnO nanofibers synthesized by electrospinning. Journal of Materials Research, 2012, 27, 1672-1679.	1.2	12
684	From nanogenerators to piezotronicsâ€”A decade-long study of ZnO nanostructures. MRS Bulletin, 2012, 37, 814-827.	1.7	170
685	Effect of oxygen partial pressure on morphology of ZnO nanostructure prepared on Zn films by simple evaporation without any additive. Materials Research Innovations, 2012, 16, 271-275.	1.0	1
686	Magneto-optical spectrum of ZnO nanorods. Journal of Applied Physics, 2012, 111, 044305.	1.1	10
687	In-situ observation of microstructural changes and electro-mechanical behaviors on ZnO nanowires under thermal condition. Microscopy and Microanalysis, 2012, 18, 752-753.	0.2	0
688	NANODAMAGE AND NANOFailure OF 1D ZNO NANOMATERIALS AND NANODEVICES. , 2012, , .		0
690	Modeling and Experimental Study of a Low-Frequency-Vibration-Based Power Generator Using ZnO Nanowire Arrays. Journal of Microelectromechanical Systems, 2012, 21, 776-778.	1.7	17
691	Prominent nonlinear electrical conduction characteristic in T-ZnOw/PTFE composites with low threshold field. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 567-573.	1.8	15
692	Direct Synthesis of ZnO Nanorod Field Emitters on Metal Electrodes. Crystal Growth and Design, 2012, 12, 5051-5055.	1.4	10

#	ARTICLE	IF	CITATIONS
693	The Rod Degenerate Plasma-Rippled-Wall Waveguide and Its Excitation by Relativistic Electron Beam Injection. IEEE Transactions on Plasma Science, 2012, 40, 3029-3036.	0.6	10
694	Synthesis of Nestlike ZnO Hierarchically Porous Structures and Analysis of Their Gas Sensing Properties. ACS Applied Materials & Interfaces, 2012, 4, 817-825.	4.0	166
695	Roughness-based monitoring of transparency and conductivity in boron-doped ZnO thin films prepared by spray pyrolysis. Materials Research Bulletin, 2012, 47, 4257-4262.	2.7	25
696	Strain effects and band parameters in MgO, ZnO, and CdO. Applied Physics Letters, 2012, 101, .	1.5	67
697	ZnO nanostructures: growth, properties and applications. Journal of Materials Chemistry, 2012, 22, 6526.	6.7	584
698	Growth analysis of novel ZnO nanotetrapods with tubular legs from aspect of reagent's vapor pressure and growth temperature. Applied Physics A: Materials Science and Processing, 2012, 109, 627-634.	1.1	1
699	Fabrication and low-temperature photoluminescence spectra of Mn-doped ZnO nanowires. Applied Physics A: Materials Science and Processing, 2012, 109, 255-259.	1.1	1
700	Generation of ZnO nanowires with varied densities and lengths by tilting a substrate. Microsystem Technologies, 2012, 18, 1497-1506.	1.2	6
701	Simple method to synthesize novel mesoporous zinc oxide. Journal of Materials Science: Materials in Electronics, 2012, 23, 1759-1763.	1.1	3
702	Synthesis and Characterization of New Zinc(II) Coordination Polymer with a Flexible Hetro-coordination Ligand via In Situ Reaction as a New Precursor for Zinc(II) Oxide Nano-sphere Particles. Journal of Inorganic and Organometallic Polymers and Materials, 2012, 22, 998-1002.	1.9	4
703	Influences of Cd-Substitution and Intrinsic Vacancies on the Electronic Structures and Optical Properties of ZnO Nanotubes. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2457-2463.	0.8	4
704	Simplifying patterning process of ZnO nanowires by one step development and etching process. Journal of Sol-Gel Science and Technology, 2012, 64, 304-308.	1.1	4
705	Enhanced conversion efficiency and surface hydrophobicity of nano-roughened Teflon-like film coated poly-crystalline Si solar cells. Physical Chemistry Chemical Physics, 2012, 14, 3968.	1.3	5
706	Reconstruction of the (001) surface of TiO ₂ nanosheets induced by the fluorine-surfactant removal process under UV-irradiation for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2012, 14, 4763.	1.3	40
707	Macroscopic high density nanodisc arrays of zinc oxide fabricated by block copolymer self-assembly assisted nanoimprint lithography. Journal of Materials Chemistry, 2012, 22, 21871.	6.7	18
708	Controllable Low Temperature Vapor-Solid Growth and Hexagonal Disk Enhanced Field Emission Property of ZnO Nanorod Arrays and Hexagonal Nanodisk Networks. ACS Applied Materials & Interfaces, 2012, 4, 3852-3859.	4.0	40
709	Synthesis of vertically aligned ultra-long ZnO nanowires on heterogeneous substrates with catalyst at the root. Nanotechnology, 2012, 23, 055604.	1.3	74
710	Hydrothermal fabrication and optical properties of wheatear-like ZnO array. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
711	Zinc oxide-based thin film functional layers for chemiresistive sensors. <i>Thin Solid Films</i> , 2012, 520, 6669-6676.	0.8	8
712	Technologies to Achieve Carbon Nanotube Alignment. <i>Nanoscience and Technology</i> , 2012, , 111-156.	1.5	1
713	Recent advances in ZnO nanostructures and thin films for biosensor applications: Review. <i>Analytica Chimica Acta</i> , 2012, 737, 1-21.	2.6	513
714	Position-controlled vertical arrays of single-crystalline ZnO nanowires on periodically polarity inverted templates. <i>Journal of Alloys and Compounds</i> , 2012, 513, 180-183.	2.8	10
715	A facile method for the synthesis of tapered ZnO:Cu nanorod arrays and its secondary growth. <i>Journal of Crystal Growth</i> , 2012, 351, 93-100.	0.7	7
717	Multivalency as a Chemical Organization and Action Principle. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10472-10498.	7.2	854
718	Size-selected growth of transparent well-aligned ZnO nanowire arrays. <i>Nanoscale Research Letters</i> , 2012, 7, 517.	3.1	23
719	Three-dimensional AlZnO/Al ₂ O ₃ /AlZnO nanocapacitor arrays on Si substrate for energy storage. <i>Nanoscale Research Letters</i> , 2012, 7, 544.	3.1	21
720	Dielectric studies and band gap tuning of ferroelectric Cr-doped ZnO nanorods. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	48
721	Nanopiezotronics and Nanogenerators. , 2012, , 115-147.		1
722	Robust, High-Density Zinc Oxide Nanoarrays by Nanoimprint Lithography-Assisted Area-Selective Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23729-23734.	1.5	26
723	The preparation of spiral ZnO nanostructures by top-down wet-chemical etching and their related properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 10924.	6.7	27
724	Growth and Characterization of Vertically Aligned Nonpolar [11̄...00] Orientation ZnO Nanostructures on (100) β -LiAlO ₂ Substrate. <i>Crystal Growth and Design</i> , 2012, 12, 6208-6214.	1.4	9
725	Morphology-controllable electrochemical synthesis and photoluminescence properties of ZnO nanocrystals with porous structures. <i>CrystEngComm</i> , 2012, 14, 7450.	1.3	12
726	Replicating hexagonal metal nanorod from ZnO nanorod. <i>Journal of Electroanalytical Chemistry</i> , 2012, 683, 25-30.	1.9	1
727	Effects of ultrathin layers on the growth of vertically aligned wurtzite ZnO nanostructures on perovskite single-crystal substrates. <i>Applied Surface Science</i> , 2012, 261, 633-639.	3.1	16
728	Hierarchical ZnO nanostructured membrane for multifunctional environmental applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 410, 11-17.	2.3	32
729	Electrochemically assembled planar hybrid poly(3-methylthiophene)/ZnO nanostructured composites. <i>Electrochimica Acta</i> , 2012, 81, 83-89.	2.6	7

#	ARTICLE	IF	CITATIONS
730	Synthesis and controlled assembly of FeOOH and Fe_2O_3 nanobelt arrays on hollow glass spheres. <i>Materials Research Bulletin</i> , 2012, 47, 3976-3982.	2.7	8
731	Colloidal Stripe Pattern with Controlled Periodicity by Convective Self-Assembly with Liquid-Level Manipulation. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3184-3190.	4.0	29
733	2D ordered arrays of nanopatterns fabricated by using colloidal crystals as templates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012, 30, 041802.	0.6	1
734	Hydrothermal zinc oxide nanowire growth using zinc acetate dihydrate salt. <i>Journal of Materials Research</i> , 2012, 27, 1445-1451.	1.2	69
735	Simple, Large-Scale Patterning of Hydrophobic ZnO Nanorod Arrays. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3910-3915.	4.0	33
736	Strain-Gated Piezotronic Transistors Based on Vertical Zinc Oxide Nanowires. <i>ACS Nano</i> , 2012, 6, 3760-3766.	7.3	113
737	Nanosphere lithography and hydrothermal growth: how to increase the surface area and control reversible wetting properties of ZnO nanowire arrays?. <i>Journal of Materials Chemistry</i> , 2012, 22, 17086.	6.7	18
738	Large-area nanoimprinting on various substrates by reconfigurable maskless laser direct writing. <i>Nanotechnology</i> , 2012, 23, 344012.	1.3	14
739	Enhanced Electrical, Optical, and Magnetic Properties in Multifunctional $\text{ZnO}/\text{Fe}_2\text{O}_3$ Semiconductor Nanoheterostructures by Heterojunction Engineering. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23540-23546.	1.5	55
740	Synthesis, Superhydrophobicity, Enhanced Photoluminescence and Gas Sensing Properties of ZnO Nanowires. , 2012, , .		4
741	Stable anatase TiO_2 coating on quartz fibers by atomic layer deposition for photoactive light-scattering in dye-sensitized solar cells. <i>Nanoscale</i> , 2012, 4, 4731.	2.8	20
742	Effect of shape and interstice on surface enhanced Raman scattering (SERS) of molecules adsorbed on gold nanoparticles in the near-dipole and quadrupole regions. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1924-1930.	1.2	10
743	Single-step synthesis of core-shell ZnO microspheres. <i>Micro and Nano Letters</i> , 2012, 7, 134.	0.6	0
744	ZnO/PVA Macroscopic Fibers Bearing Anisotropic Photonic Properties. <i>Advanced Functional Materials</i> , 2012, 22, 3994-4003.	7.8	20
745	One-Dimensional Metal-Oxide Nanostructures: Recent Developments in Synthesis, Characterization, and Applications. <i>Advanced Functional Materials</i> , 2012, 22, 3326-3370.	7.8	695
746	Hierarchical Nitrogen-Doped Flowerlike ZnO Nanostructure and Its Multifunctional Environmental Applications. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1772-1780.	1.7	41
747	A Critical Assessment of the Specific Role of Microwave Irradiation in the Synthesis of ZnO Micro- and Nanostructured Materials. <i>Chemistry - A European Journal</i> , 2012, 18, 5724-5731.	1.7	34
748	A New Vapor-Phase Hydrothermal Method to Concurrently Grow ZnO Nanotube and Nanorod Array Films on Different Sides of a Zinc Foil Substrate. <i>Chemistry - A European Journal</i> , 2012, 18, 5165-5169.	1.7	20

#	ARTICLE	IF	CITATIONS
749	Assembly of one dimensional inorganic nanostructures into functional 2D and 3D architectures. Synthesis, arrangement and functionality. <i>Chemical Society Reviews</i> , 2012, 41, 5285.	18.7	237
750	Preparation and optical properties of high-quality oriented of Al and Er co-doped ZnO thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 63, 95-102.	1.1	11
751	Biomimetic growth of gallic acid@ZnO hybrid assemblies and their applications. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	6
752	Near-Ultraviolet Light-Emitting Devices Using Vertical ZnO Nanorod Arrays. <i>Journal of Electronic Materials</i> , 2012, 41, 853-856.	1.0	10
753	Unusual Rectifying Response of Nanojunctions Using Randomly Oriented Nanorods (RON) of ZnO Irradiated with 80-MeV Oxygen Ions. <i>Journal of Electronic Materials</i> , 2012, 41, 1955-1961.	1.0	2
754	Patterned Zn-seeds and selective growth of ZnO nanowire arrays on transparent conductive substrate and their field emission characteristics. <i>Ceramics International</i> , 2012, 38, 4277-4283.	2.3	10
755	Preparation and XRD analyses of Na-doped ZnO nanorod arrays based on experiment and theory. <i>Chemical Physics Letters</i> , 2012, 528, 16-20.	1.2	24
756	Direct fabrication of ZnO nanorods array on-chip system in solution and their electrical properties. <i>Electrochemistry Communications</i> , 2012, 18, 88-91.	2.3	19
757	Hierarchically porous Co ₃ O ₄ film prepared by hydrothermal synthesis method based on colloidal crystal template for supercapacitor application. <i>Electrochimica Acta</i> , 2012, 64, 154-161.	2.6	118
758	Simple hydrothermal route to synthesise a nanocrystalline ZnO/PVP composite film and its optical property. <i>Micro and Nano Letters</i> , 2012, 7, 523.	0.6	2
759	Zinc oxide nanowires. <i>Materials Characterization</i> , 2012, 64, 43-52.	1.9	135
760	Structural, EPR, photo and thermoluminescence properties of ZnO:Fe nanoparticles. <i>Materials Chemistry and Physics</i> , 2012, 133, 876-883.	2.0	55
761	Low-temperature growth of well-aligned ZnO nanorods/nanowires on flexible graphite sheet and their photoluminescence properties. <i>Materials Research Bulletin</i> , 2012, 47, 1467-1470.	2.7	16
762	Fabrication and optical properties of needle-like ZnO array by a simple hydrothermal process. <i>Materials Letters</i> , 2012, 66, 246-249.	1.3	31
763	Generalized preparation of metal oxalate nano/submicro-rods by facile solvothermal method and their calcined products. <i>Materials Letters</i> , 2012, 76, 194-197.	1.3	15
764	Synthesis of floral assembly with single crystalline ZnO nanorods and its CO sensing property. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 748-754.	4.0	44
765	Synthesis of bismuth nanocap arrays on quartz substrates and their surface plasmon resonance properties. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 604-607.	1.9	2
766	ZnO nanorod gas sensor for ethanol detection. <i>Sensors and Actuators B: Chemical</i> , 2012, 162, 237-243.	4.0	441

#	ARTICLE	IF	CITATIONS
767	Synthesis and properties of ZnO hexagonal prisms synthesized on MgO-coated Si (111) substrates. Superlattices and Microstructures, 2012, 51, 80-85.	1.4	0
768	Enhancement of optical properties and donor-related emissions in Y-doped ZnO. Superlattices and Microstructures, 2012, 52, 84-91.	1.4	39
769	Artificial control of 2D ZnO patterns using interference patterning of photodynamic polymer. Superlattices and Microstructures, 2012, 51, 854-859.	1.4	0
770	Site-controlled fabrication of dimension-tunable Si nanowire arrays on patterned (001)Si substrates. Thin Solid Films, 2012, 520, 3309-3313.	0.8	6
771	A study on morphology control and optical properties of ZnO nanorods synthesized by microwave heating. Journal of Luminescence, 2012, 132, 226-230.	1.5	22
772	Formation mechanism of SiGe nanorod arrays by combining nanosphere lithography and Au-assisted chemical etching. Nanoscale Research Letters, 2012, 7, 140.	3.1	5
773	Progress in Piezotronics and Piezo-Phototronics. Advanced Materials, 2012, 24, 4632-4646.	11.1	570
774	Synthesis of Vertically Aligned ZnO Nanorods on Ni-Based Buffer Layers Using a Thermal Evaporation Process. Journal of Electronic Materials, 2012, 41, 451-456.	1.0	5
775	Growth and properties of ZnO nanowires synthesized by a simple hydrothermal method. Journal of Materials Science: Materials in Electronics, 2012, 23, 398-402.	1.1	11
776	Solid-liquid-solid process for forming free-standing gold nanowhisker superlattice by interfering femtosecond laser irradiation. Applied Surface Science, 2013, 274, 27-32.	3.1	60
777	Synthesis, characterization and morphology of polyanthranilic acid micro- and nanostructures. Journal of Polymer Research, 2013, 20, 1.	1.2	9
778	Facile synthesis of ZnO nanowires on FTO glass for dye-sensitized solar cells. Journal of Semiconductors, 2013, 34, 074002.	2.0	6
779	Morphology-wettability relations in artificially structured superhydrophilic TiO ₂ -SiO ₂ composite films. Journal of Materials Science, 2013, 48, 3107-3120.	1.7	9
780	Vertically aligned smooth ZnO nanorod films for planar device applications. Journal of Materials Chemistry C, 2013, 1, 2525.	2.7	13
781	One-dimensional ZnO nanostructures: fabrication, optoelectronic properties, and device applications. Journal of Materials Science, 2013, 48, 6849-6877.	1.7	173
782	In Situ Integration of Squaraine-Nanowire-Array-Based Schottky-Type Photodetectors with Enhanced Switching Performance. ACS Applied Materials & Interfaces, 2013, 5, 12288-12294.	4.0	30
783	Nanoelectronics Meets Biology: From New Nanoscale Devices for Live-Cell Recording to 3D Innervated Tissues. Chemistry - an Asian Journal, 2013, 8, 2304-2314.	1.7	25
784	Microfluidic spatial growth of vertically aligned ZnO nanostructures by soft lithography for antireflective patterning. Microfluidics and Nanofluidics, 2013, 15, 1-9.	1.0	9

#	ARTICLE	IF	CITATIONS
785	Process of in situ forming well-aligned Zinc Oxide nanorod arrays on wood substrate using a two-step bottom-up method. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 116-121.	5.0	19
786	Aligned arrays of zinc oxide nanorods on silicon substrates. <i>Semiconductors</i> , 2013, 47, 252-258.	0.2	16
787	Effect of annealing temperature on surface morphology and work function of ZnO nanorod arrays. <i>Journal of Alloys and Compounds</i> , 2013, 565, 85-89.	2.8	31
788	Fabrication of pit-structured ZnO nanorods and their enhanced photocatalytic performance. <i>RSC Advances</i> , 2013, 3, 20054.	1.7	42
789	Self-assembled core-shell and Janus microphase separated structures of polymer blends in aqueous solution. <i>Journal of Chemical Physics</i> , 2013, 139, 084907.	1.2	40
790	Morphology-controllable ZnO rings: ionic liquid-assisted hydrothermal synthesis, growth mechanism and photoluminescence properties. <i>CrystEngComm</i> , 2013, 15, 6729.	1.3	56
791	Enhanced band-edge photoluminescence from ZnO-passivated ZnO nanoflowers by atomic layer deposition. <i>Nanoscale Research Letters</i> , 2013, 8, 105.	3.1	17
792	Fabrication and evolution of nanostructure in Al ₂ O ₃ single crystals by Zn ⁺ ion implantation and thermal annealing. <i>Vacuum</i> , 2013, 89, 132-135.	1.6	0
793	Structural and photoluminescence studies of highly crystalline un-annealed ZnO nanorods arrays synthesized by hydrothermal technique. <i>Journal of Luminescence</i> , 2013, 144, 234-240.	1.5	5
794	Effect of ZnO seed layer thickness on hierarchical ZnO nanorod growth on flexible substrates for application in dye-sensitized solar cells. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	34
795	Investigation of the effects of atomic oxygen exposure on the electrical and field emission properties of ZnO nanowires. <i>Applied Surface Science</i> , 2013, 270, 82-89.	3.1	32
796	Current transport mechanism at metal-semiconductor nanoscale interfaces based on ultrahigh density arrays of p-type NiO nano-pillars. <i>Nanoscale</i> , 2013, 5, 11699.	2.8	24
797	Effect of the Nature of the Template on the Structure and Properties of Electrodeposited Vertically Aligned Submicron ZnO Rods. <i>Theoretical and Experimental Chemistry</i> , 2013, 49, 255-260.	0.2	0
798	Preparation of Protein-like Silver-Cysteine Hybrid Nanowires and Application in Ultrasensitive Immunoassay of Cancer Biomarker. <i>Analytical Chemistry</i> , 2013, 85, 9655-9663.	3.2	23
799	Electrodeposition of self organized superstructure of copper dendrites or polyhedral particles on gold nanoparticle modified highly oriented pyrolytic graphite electrode. <i>Electrochimica Acta</i> , 2013, 112, 838-844.	2.6	14
800	ZnO Twin-Spheres Exposed in $\{100\}$ Facets: Stepwise Self-Assembly Growth and Anisotropic Blue Emission. <i>ACS Nano</i> , 2013, 7, 10482-10491.	7.3	49
801	Nanocrystalline ZnO films prepared by pulsed laser deposition and their abnormal optical properties. <i>Applied Surface Science</i> , 2013, 283, 781-787.	3.1	24
802	Elongated nanostructures for radial junction solar cells. <i>Reports on Progress in Physics</i> , 2013, 76, 106502.	8.1	43

#	ARTICLE	IF	CITATIONS
803	ZnO:Er,Yb,Gd Particles Designed for Magnetic-Fluorescent Imaging and Near-Infrared Light Triggered Photodynamic Therapy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23716-23729.	1.5	33
804	Understanding sintering characteristics of ZnO nanoparticles by FIB-SEM three-dimensional analysis. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2499-2507.	2.8	16
805	Fabrication of different morphologies of ZnO superstructures in presence of synthesized ethylammonium nitrate (EAN) ionic liquid: synthesis, characterization and analysis. <i>Dalton Transactions</i> , 2013, 42, 1645-1656.	1.6	24
806	Controllable synthesis of ZnO nanostructures on the Si substrate by a hydrothermal route. <i>Nanoscale Research Letters</i> , 2013, 8, 378.	3.1	25
807	Microscopic analysis of thermally-driven formation of Cu-Si alloy nanoparticles in a Cu/Si template. <i>Journal of the Korean Physical Society</i> , 2013, 63, 2128-2132.	0.3	3
808	Cathodoluminescence of Self-assembled Nanosystems. , 2013, , 557-601.		2
809	Hierarchically assembled mesoporous ZnO nanorods for the removal of lead and cadmium by using differential pulse anodic stripping voltammetric method. <i>Powder Technology</i> , 2013, 239, 208-216.	2.1	74
810	ZnO-Based Imine-Linked Coupled Biocompatible Chemosensor for Nanomolar Detection of Co ²⁺ . <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1600-1608.	3.2	54
811	One-step waferscale synthesis of 3-D ZnO nanosuperstructures by designed catalysts for substantial improvement of solar water oxidation efficiency. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8111.	5.2	18
812	Effect of pH variations and characterization of short length ZnO hexagonal nanorods from ZnS precursors. , 2013, , .		0
813	Controlled growth of ZnO nanocrystals using laser interference irradiation. , 2013, , .		0
814	Highly durable all-fiber nanogenerator for mechanical energy harvesting. <i>Energy and Environmental Science</i> , 2013, 6, 2631.	15.6	317
815	Rapid preparation of high surface area iron oxide and alumina nanoclusters through a soft templating approach of sol-gel precursors. <i>New Journal of Chemistry</i> , 2013, 37, 245-249.	1.4	5
816	Morphological evolution, structural and optical investigations of ZnO:Mg (Mg _x Zn _{1-x} O (0 ≤ x ≤ 30%)) nanostructures. <i>RSC Advances</i> , 2013, 3, 5465.	1.7	14
817	Hole-induced large-area homoepitaxial growth of CdSe nanowire arrays for photovoltaic application. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6313.	5.2	6
818	The structural and optical properties of a single ZnO comb and an individual nail-like tooth. <i>CrystEngComm</i> , 2013, 15, 10604.	1.3	6
819	A fluorine-mediated hydrothermal method to synthesize mesoporous rhombic ZnO nanorod arrays and their gas sensor application. <i>Dalton Transactions</i> , 2013, 42, 15551.	1.6	21
820	Theoretical analysis of growth or swelling wrinkles on constrained soft slabs. <i>Soft Matter</i> , 2013, 9, 8216.	1.2	15

#	ARTICLE	IF	CITATIONS
821	Kinetic mechanism of ZnO hexagonal single crystal slices on GaN/sapphire by a layer-by-layer growth mode. RSC Advances, 2013, 3, 12826.	1.7	5
822	High-throughput fabrication of large-scale highly ordered ZnO nanorod arrays via three-beam interference lithography. CrystEngComm, 2013, 15, 8416.	1.3	13
823	Enhancing the Performance of ZnO Nanorod/p-GaN Heterostructured Photodetectors Using the Photoelectrochemical Oxidation Passivation Method. IEEE Nanotechnology Magazine, 2013, 12, 578-582.	1.1	10
824	Shape-Controlled Synthesis of Pt Nanocrystals: The Role of Metal Carbonyls. ACS Nano, 2013, 7, 645-653.	7.3	162
825	Metal Oxide Nano-architectures and Heterostructures for Chemical Sensors. , 2013, , 397-438.		3
826	Design and Fabrication of Three-Dimensional Chiral Nanostructures Based on Stepwise Glancing Angle Deposition Technology. Langmuir, 2013, 29, 867-872.	1.6	39
827	Dipolar and charge transfer effects on the atomic stabilization of ZnO polar surfaces. Surface Science, 2013, 607, 181-186.	0.8	25
828	Microwave Synthesis of Metal Oxide Nanoparticles. , 2013, , 245-284.		12
829	One-pot fast synthesis of spherical ZnS/Au nanocomposites and their optical properties. Journal of Materials Science, 2013, 48, 636-643.	1.7	7
830	Zinc oxide nanostructures: from growth to application. Journal of Materials Science, 2013, 48, 612-624.	1.7	187
831	Zinc oxide flower-like synthesized under hydrothermal conditions. Thin Solid Films, 2013, 537, 97-101.	0.8	12
832	Birth of room-temperature magnons and Raman line enhancement in ZnO nanostructures containing cobalt oxide. Journal of Raman Spectroscopy, 2013, 44, 1534-1539.	1.2	17
833	Optoelectronic Properties of Thermally Evaporated ZnO Films with Nanowalls on Glass Substrates. Applied Physics Express, 2013, 6, 045201.	1.1	3
834	In situ application of polyelectrolytes in zinc oxide nanorod synthesis: Understanding the effects on the structural and optical characteristics. Journal of Colloid and Interface Science, 2013, 394, 13-19.	5.0	5
835	Controlled morphology and size of ZnO nanocrystals using the continuous hot compressed water technique. Journal of Supercritical Fluids, 2013, 79, 268-273.	1.6	3
836	Restrictions of Si-based Ge nanodots from porous alumina membranes. Superlattices and Microstructures, 2013, 60, 73-82.	1.4	1
837	Preparation and characterization of ZnS:Tb,Gd and ZnS:Er,Yb,Gd nanoparticles for bimodal magnetic-fluorescent imaging. Dalton Transactions, 2013, 42, 1752-1759.	1.6	27
838	Nanohybridization of Low-Dimensional Nanomaterials: Synthesis, Classification, and Application. Critical Reviews in Solid State and Materials Sciences, 2013, 38, 1-56.	6.8	20

#	ARTICLE	IF	CITATIONS
839	UV-VIS and Photoluminescence Spectroscopy for Nanomaterials Characterization. , 2013, , .		46
840	Physical processes-aided periodic micro/nanostructured arrays by colloidal template technique: fabrication and applications. <i>Chemical Society Reviews</i> , 2013, 42, 3614.	18.7	171
841	Plasmonic fluorescence enhancement by metal nanostructures: shaping the future of bionanotechnology. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15709.	1.3	161
842	DNA Manipulation and Separation in Sublithographic-Scale Nanowire Array. <i>ACS Nano</i> , 2013, 7, 3029-3035.	7.3	61
843	Atmospheric pressure based electrostatic spray deposition of transparent conductive ZnO and Al-doped ZnO (AZO) thin films: Effects of Al doping and annealing treatment. <i>Electronic Materials Letters</i> , 2013, 9, 161-170.	1.0	46
844	Development of a Seedless Floating Growth Process in Solution for Synthesis of Crystalline ZnO Micro/Nanowire Arrays on Graphene: Towards High-Performance Nanohybrid Ultraviolet Photodetectors. <i>Advanced Functional Materials</i> , 2013, 23, 4941-4948.	7.8	84
845	Low resistive aluminum doped nanocrystalline zinc oxide for reducing gas sensor application via sol-gel process. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 761-769.	4.0	43
846	Thermal annealing induced structural and optical properties of Ca doped ZnO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 3183-3188.	1.1	18
847	Optical Far-Field Method with Subwavelength Accuracy for the Determination of Nanostructure Dimensions in Large-Area Samples. <i>Nano Letters</i> , 2013, 13, 2662-2667.	4.5	15
848	Fabrication of wafer-scale TiO ₂ nanobowl arrays via a scooping transfer of polystyrene nanospheres and atomic layer deposition for their application in photonic crystals. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1732.	2.7	26
849	Control growth of single crystalline ZnO nanorod arrays and nanoflowers with enhanced photocatalytic activity. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	8
850	In Situ Generated Gas Bubble-Directed Self-Assembly: Synthesis, and Peculiar Magnetic and Electrochemical Properties of Vertically Aligned Arrays of High-Density Co ₃ O ₄ Nanotubes. <i>Advanced Functional Materials</i> , 2013, 23, 2406-2414.	7.8	56
851	One-pot synthesis and gas sensing properties of ZnO mesoporous architectures. <i>Sensors and Actuators B: Chemical</i> , 2013, 184, 85-92.	4.0	33
852	Scalable synthesis and device integration of self-registered one-dimensional zinc oxide nanostructures and related materials. <i>Chemical Society Reviews</i> , 2013, 42, 342-365.	18.7	79
853	Novel ZnO nanorod films by chemical solution deposition for planar device applications. <i>Nanotechnology</i> , 2013, 24, 275601.	1.3	12
854	Stepwise Molding, Etching, and Imprinting to Form Libraries of Nanopatterned Substrates. <i>Langmuir</i> , 2013, 29, 6737-6745.	1.6	10
855	In Situ Synthesis of High Density sub-50 nm ZnO Nanopatterned Arrays Using Diblock Copolymer Templates. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5727-5732.	4.0	19
856	ZnO nanorod based low turn-on voltage LEDs with wide electroluminescence spectra. <i>Journal of Luminescence</i> , 2013, 133, 222-225.	1.5	22

#	ARTICLE	IF	CITATIONS
857	Controlled synthesis of ultrathin ZnO nanowires using micellar gold nanoparticles as catalyst templates. <i>Nanoscale</i> , 2013, 5, 7046.	2.8	15
858	Plasma-enhanced chemical vapor deposition synthesis of vertically oriented graphene nanosheets. <i>Nanoscale</i> , 2013, 5, 5180.	2.8	357
859	Experimental Validation of the Geometrical Selection Model for Hydrothermally Grown Zinc Oxide Nanowire Arrays. <i>Chemistry of Materials</i> , 2013, 25, 1363-1371.	3.2	23
860	Photoelectrochemical application of mesoporous TiO ₂ /WO ₃ nanohoneycomb prepared by sol-gel method. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 7750-7755.	3.8	31
861	On the decoration of 3D nickel foam with single crystal ZnO nanorod arrays and their cathodoluminescence study. <i>Materials Letters</i> , 2013, 90, 126-130.	1.3	9
862	Microfabricated environmental barrier using ZnO nanowire on metal mesh. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 127001.	1.5	5
863	Vertically Aligned Arrays of BaTiO ₃ Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11894-11899.	4.0	71
864	Nanosphere Lithography: A Powerful Method for the Controlled Manufacturing of Nanomaterials. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-19.	1.5	198
865	ZnO nanorods: morphology control, optical properties, and nanodevice applications. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 2243-2265.	2.0	18
866	Poly(hexyl methacrylate) Nanoparticles Templating in Nanoemulsions-Made by Phase Inversion Temperature. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2013, 50, 385-391.	1.2	9
867	Templated synthesis of nanostructured materials. <i>Chemical Society Reviews</i> , 2013, 42, 2610-2653.	18.7	806
868	Template-free hydrothermal synthesis of molybdenum trioxide nanobelts and their photocatalytic activity for degradation of methylene blue. <i>Micro and Nano Letters</i> , 2013, 8, 500-503.	0.6	11
869	Hydrothermal Growth of Vertically Aligned ZnO Nanorods Using a Biocomposite Seed Layer of ZnO Nanoparticles. <i>Materials</i> , 2013, 6, 3584-3597.	1.3	93
870	Comparative Study of P-Doped and Undoped ZnO Nanostructures Using Thermal Evaporation and Vapor Transport Method. <i>Advanced Materials Research</i> , 0, 667, 74-79.	0.3	0
871	Compatibility waves drive crystal growth on patterned substrates. <i>New Journal of Physics</i> , 2013, 15, 073013.	1.2	24
872	Integration of Metal Oxide Nanowires in Flexible Gas Sensing Devices. <i>Sensors</i> , 2013, 13, 10659-10673.	2.1	32
873	Morphologies and Photoluminescence of Bi-Doped ZnO Materials Synthesized by Sonochemical Method. <i>Advanced Materials Research</i> , 2013, 740, 535-539.	0.3	3
874	High Density Metal Oxide (ZnO) Nanopatterned Platforms for Electronic Applications. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1498, 255-261.	0.1	0

#	ARTICLE	IF	CITATIONS
875	Effective Electrochemical n-Type Doping of ZnO Thin films for Optoelectronic Window Applications. ECS Journal of Solid State Science and Technology, 2013, 2, Q108-Q112.	0.9	7
876	Fabrication of nanopillar forests with high infrared absorptance based on rough poly-Si and spacer technology. Journal of Micromechanics and Microengineering, 2013, 23, 095033.	1.5	7
877	Optical and Excitonic Properties of Crystalline ZnS Nanowires. , 2013, , 453-483.		0
878	TCO Nanostructures as building blocks for nanophotonic devices in the infrared. , 2013, , .		1
879	Effects of Precursor Concentration on Hexagonal Structures of ZnO Nanorods Grown by Aqueous Solution Method. Advanced Materials Research, 0, 770, 120-123.	0.3	1
880	Spectral and Spatial Luminescence Distribution of m -Plane ZnO Epitaxial Films Containing Stacking Faults: A Cathodoluminescence Study. Applied Physics Express, 2013, 6, 061101.	1.1	10
881	A Light Incident Angle Switchable ZnO Nanorod Memristor: Reversible Switching Behavior Between Two Non-Volatile Memory Devices. Advanced Materials, 2013, 25, 6423-6429.	11.1	134
882	Template-Assisted Self-Assembly: Alignment, Placement, and Arrangement of Two-Dimensional Mesostructured DNA-Silica Platelets. Angewandte Chemie - International Edition, 2013, 52, 14186-14190.	7.2	31
883	Impact of transparent electrode on photoresponse of ZnO-based phototransistor. Applied Physics Letters, 2013, 103, 251111.	1.5	17
884	Growth methodology for nanowires. , 2013, , .		0
885	Heteroepitaxy of Ge on Si(001) with pits and windows transferred from free-standing porous alumina mask. Nanotechnology, 2013, 24, 185302.	1.3	17
886	Hierarchical ZnO Nanoflake Structured Multifunctional Membrane for Water Purification. Separation Science and Technology, 2013, 48, 473-479.	1.3	6
887	The use of nanomaterials in smart protective clothing. , 2013, , 127-147.		4
888	Polymerization of Hexyl Methacrylate in Nanoemulsions Made by Low and High Energy Methods. Journal of Macromolecular Science - Pure and Applied Chemistry, 2013, 50, 812-820.	1.2	2
889	EFFECTS OF Au ON THE GROWTH OF ZnO NANOSTRUCTURES ON Si BY MOCVD. Functional Materials Letters, 2013, 06, 1350044.	0.7	0
890	SYNTHESIS OF ZINC OXIDE THIN FILM WITH THREAD-LIKE NANOWIRES ON FLUORINE DOPED TIN OXIDE GLASS SUBSTRATES. Modern Physics Letters B, 2013, 27, 1350237.	1.0	0
891	Availability of polymeric nanoparticles for specific enhanced and targeted drug delivery. Therapeutic Delivery, 2013, 4, 1261-1278.	1.2	15
893	Uninterrupted and reusable source for the controlled growth of nanowires. Scientific Reports, 2013, 3, 1172.	1.6	11

#	ARTICLE	IF	CITATIONS
894	Colloidal Lithography. , 2013, , .		5
895	Mechanism of Generation of ZnO Microstructures by Microwave-Assisted Hydrothermal Approach. Materials, 2013, 6, 2497-2507.	1.3	22
896	Microwave Assisted Growth of ZnO Nanorods and Nanopolypods Nanostructure Thin Films for Gas and Explosives Sensing. Journal of Nanoparticles, 2013, 2013, 1-12.	1.4	1
897	Nano/Microstructured Materials: Rapid, Low-Cost, and Eco-Friendly Synthesis Methods. Journal of Nanoparticles, 2013, 2013, 1-3.	1.4	13
898	Effects of Engineered Nanomaterials on Plants Growth: An Overview. Scientific World Journal, The, 2014, 2014, 1-28.	0.8	274
899	Controllable Growth of Functional Gradient ZnO Material Using Chemical Vapor Deposition. Integrated Ferroelectrics, 2014, 151, 1-6.	0.3	13
900	Nanofiber forests with high infrared absorptance. , 2014, , .		2
901	Effect of different sol concentrations on the properties of nanocrystalline ZnO thin films grown on FTO substrates by sol-gel spin-coating. Journal of the Korean Physical Society, 2014, 65, 480-486.	0.3	9
902	Improving light trapping and conversion efficiency of amorphous silicon solar cell by modified and randomly distributed ZnO nanorods. Chinese Physics B, 2014, 23, 046106.	0.7	7
903	Shape-controlled ZnO nanocrystals using multi-beam interference irradiation. Proceedings of SPIE, 2014, , .	0.8	0
904	Microwave pulse-assisted wet chemical synthesis of ZnO nanoparticles with excellent UV emission. , 2014, , .		1
905	Nanowires for Piezoelectric Nanogenerators. RSC Smart Materials, 2014, , 200-276.	0.1	0
906	A Facile One-Step Approach to Epitaxially Grow Periodic Arrays of InGaAs/GaAs Nanobars by Metal-Organic Chemical Vapor Deposition: From Site Control to Size Control. Crystal Growth and Design, 2014, 14, 6550-6556.	1.4	3
907	Autocatalytic growth of ZnO nanorods from flat Au(111)-supported ZnO films. Physical Chemistry Chemical Physics, 2014, 16, 26741-26745.	1.3	5
908	Probing inhomogeneous composition in core/shell nanowires by Raman spectroscopy. Journal of Applied Physics, 2014, 116, 184303.	1.1	4
909	Optical Properties of Plate-Shaped ZnO Nanocrystals Grown by a Facile and Environmentally Friendly Molten Salt Method. Chinese Physics Letters, 2014, 31, 097802.	1.3	2
910	Influence of ZnO nanowire array morphology on field emission characteristics. Nanotechnology, 2014, 25, 135604.	1.3	10
911	Transport properties of pristine and alloyed free standing ultrathin nanowires of noble metals. Journal of Alloys and Compounds, 2014, 615, 194-203.	2.8	13

#	ARTICLE	IF	CITATIONS
912	Controllable Synthesis of ZnO Nanostructures via Template-Free Electrochemical Deposition at Low Temperature and their Optical Properties. <i>Advanced Materials Research</i> , 0, 915-916, 540-544.	0.3	1
913	Detection of target DNA using photo-reactive protoporphyrin moiety on a nanocomposite substrate. , 2014, , .		0
914	Design and fabrication of diverse three-dimensional shell-like nano-structures. <i>Microelectronic Engineering</i> , 2014, 115, 6-12.	1.1	13
915	Capping and catalytic behaviour of lithiated sarcosine TFSI on the formation of hexagonal ZnO micro rods using hydrothermal method. <i>Materials Letters</i> , 2014, 128, 195-198.	1.3	2
916	Development of microstructure sensor based on hierarchically 2-fold ZnO nanorod arrays on hydrothermal-like ZnAlCO ₃ nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 206-212.	4.0	8
917	Heterogeneous nucleation for synthesis of sub-20nm ZnO nanopods and their application to optical humidity sensing. <i>Analytica Chimica Acta</i> , 2014, 812, 206-214.	2.6	6
918	Towards Perfectly Ordered Novel ZnO/Si Nano-Heterojunction Arrays. <i>Small</i> , 2014, 10, 344-348.	5.2	14
919	Influence of the synthesis parameters on the thermal behavior of some ZnO-starch composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 495-501.	2.0	13
920	Microfluidic Surface-Enhanced Raman Scattering Sensors Based on Nanopillar Forests Realized by an Oxygen-Plasma-Stripping-of-Photoresist Technique. <i>Small</i> , 2014, 10, 127-134.	5.2	98
921	Assembly of hierarchical ZnSnO ₃ hollow microspheres from ultra-thin nanorods and the enhanced ethanol-sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 370-377.	4.0	56
922	Optical, structural, enhanced local vibrational and fluorescence properties in K-doped ZnO nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 395-401.	1.1	12
923	Electrochemically deposited ZnO films: an XPS study on the evolution of their surface hydroxide and defect composition upon thermal annealing. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 505-513.	1.2	54
924	Morphology-structure diversity of ZnS nanostructures and their optical properties. <i>Rare Metals</i> , 2014, 33, 1-15.	3.6	33
925	A self-powered ultraviolet detector based on a single ZnO microwire/p-Si film with double heterojunctions. <i>Nanoscale</i> , 2014, 6, 6025-6029.	2.8	55
926	Synthesis of ZnO nanoparticles from microemulsions in a flow type microreactor. <i>Chemical Engineering Journal</i> , 2014, 235, 191-197.	6.6	51
927	A one pot synthesis of Au-ZnO nanocomposites for plasmon-enhanced sunlight driven photocatalytic activity. <i>New Journal of Chemistry</i> , 2014, 38, 2999.	1.4	91
928	A highly efficient gold/electrospun PAN fiber material for improved laccase biocathodes for biofuel cell applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2794.	5.2	38
929	Nanodiamond-polymer nanoparticle composites and their thin films. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	53

#	ARTICLE	IF	CITATIONS
930	Structural and chemical modification of semiconductor nanocrystals. , 2014, , 50-94.		0
931	Growth mechanism studies of ZnO nanowire arrays via hydrothermal method. Applied Physics A: Materials Science and Processing, 2014, 115, 953-960.	1.1	76
932	Measuring size dependent electrical properties from nanoneedle structures: Pt/ZnO Schottky diodes. Applied Physics Letters, 2014, 104, .	1.5	5
933	Selective Area Growth of Well-Ordered ZnO Nanowire Arrays with Controllable Polarity. ACS Nano, 2014, 8, 4761-4770.	7.3	78
934	The magnetic properties of a small particle on a hexagonal substrate: Monte Carlo and effective field treatments. Physica A: Statistical Mechanics and Its Applications, 2014, 401, 308-318.	1.2	5
935	Graphene improving lithium-ion battery performance by construction of NiCo ₂ O ₄ /graphene hybrid nanosheet arrays. Nano Energy, 2014, 3, 88-94.	8.2	189
936	Post-annealing effects on the structural and optical properties of vertically aligned undoped ZnO nanorods grown by radio frequency magnetron sputtering. RSC Advances, 2014, 4, 5030.	1.7	33
937	In Situ Transmission Electron Microscopy Investigation on Fatigue Behavior of Single ZnO Wires under High-Cycle Strain. Nano Letters, 2014, 14, 480-485.	4.5	62
938	Applications of super-resolution imaging in the field of surface topography measurement. Surface Topography: Metrology and Properties, 2014, 2, 023001.	0.9	14
939	ZnO-Based Ultraviolet Photodetectors With Novel Nanosheet Structures. IEEE Nanotechnology Magazine, 2014, 13, 238-244.	1.1	31
940	Formation of a CdO Layer on CdS/ZnO Nanorod Arrays to Enhance their Photoelectrochemical Performance. ChemSusChem, 2014, 7, 3505-3512.	3.6	25
941	Growth of ZnO nanorods on fluorine-doped tin oxide substrate without catalyst by radio-frequency magnetron sputtering. Thin Solid Films, 2014, 573, 79-83.	0.8	10
942	Two-dimensional ZnO nanowalls for gas sensor and photoelectrochemical applications. Electronic Materials Letters, 2014, 10, 693-697.	1.0	14
943	An electric-field assisted growth control methodology for integrating ZnO nanorods with microstructures. Nanoscale, 2014, 6, 12732-12739.	2.8	11
944	Surface plasmon resonance and surface-enhanced Raman scattering activity of SiO ₂ @Au core-cap nanostructure arrays. Applied Physics A: Materials Science and Processing, 2014, 117, 1907-1914.	1.1	3
945	Photosensing performance of branched CdS/ZnO heterostructures as revealed by in situ TEM and photodetector tests. Nanoscale, 2014, 6, 8084.	2.8	64
946	Highly ordered ZnO nanostructure arrays: Preparation and light-emitting diode application. Japanese Journal of Applied Physics, 2014, 53, 055201.	0.8	6
947	Ultrathin open-ended porous TiO ₂ membranes for surface nanopatterning in fabricating nanodot arrays. Chemical Communications, 2014, 50, 14317-14320.	2.2	2

#	ARTICLE	IF	CITATIONS
948	Styryl phenanthrimidazole-fluorescence switched on by core/shell BaTiO ₃ /ZnO and Mn-doped TiO ₂ /ZnO nanospheres and switched off by the core nanoparticles. RSC Advances, 2014, 4, 59908-59916.	1.7	4
949	Simulation study on 3D trajectory of dielectrophoretic force assembled nanowires. , 2014, , .		1
950	Lateral growth of ZnO nanorod arrays in polyhedral structures for high on-current field-effect transistors. Chemical Communications, 2014, 50, 10502.	2.2	6
951	Room-temperature self-powered ethanol sensing of a Pd/ZnO nanoarray nanogenerator driven by human finger movement. Nanoscale, 2014, 6, 4604-4610.	2.8	113
952	Fabrication of flower-like ZnO nanosheet and nanorod-assembled hierarchical structures and their enhanced performance in gas sensors. New Journal of Chemistry, 2014, 38, 84-89.	1.4	62
953	Au-functionalized porous ZnO microsheets and their enhanced gas sensing properties. New Journal of Chemistry, 2014, 38, 2530.	1.4	40
954	Selectively recognizing organic semiconducting molecules on solid state molecular cages based on ZnOTCPP. Dalton Transactions, 2014, 43, 432-438.	1.6	3
955	Straight-forward synthesis of ringed particles. Chemical Science, 2014, 5, 1961.	3.7	33
956	Ionic liquid-based solvent-induced shape-tunable small-sized ZnO nanostructures with interesting optical properties and photocatalytic activities. RSC Advances, 2014, 4, 5055.	1.7	21
957	Surface effect on size-dependent wave propagation in nanoplates via nonlocal elasticity. Philosophical Magazine, 2014, 94, 2009-2020.	0.7	15
958	Zinc oxide aerogel-like materials with an intriguing interwoven hollow-sphere morphology for selective ethanol sensing. RSC Advances, 2014, 4, 21815-21818.	1.7	2
959	Probing the highly efficient room temperature ammonia gas sensing properties of a luminescent ZnO nanowire array prepared via an AAO-assisted template route. Dalton Transactions, 2014, 43, 5713-5720.	1.6	50
960	Structurally Nanocrystalline-Electrically Single Crystalline ZnO-Reduced Graphene Oxide Composites. Nano Letters, 2014, 14, 5104-5109.	4.5	64
961	Non-injection Synthesis of Doped Zinc Oxide Plasmonic Nanocrystals. ACS Nano, 2014, 8, 9154-9163.	7.3	112
962	Gas Adsorption Thermodynamics Deduced from the Electrical Responses in Gas-Gated Field-Effect Nanosensors. Journal of Physical Chemistry C, 2014, 118, 14703-14710.	1.5	13
963	Various nanofabrication approaches towards two-dimensional photonic crystals for ceramic plate phosphor-capped white light-emitting diodes. Journal of Materials Chemistry C, 2014, 2, 7513.	2.7	26
964	Branched ZnO Wire Structures for Water Collection Inspired by Cacti. ACS Applied Materials & Interfaces, 2014, 6, 8032-8041.	4.0	102
965	Photo-directed growth of Au nanowires on ZnO arrays for enhancing photoelectrochemical performances. Journal of Materials Chemistry A, 2014, 2, 15553-15559.	5.2	76

#	ARTICLE	IF	CITATIONS
966	Rapid Anisotropic Photoconductive Response of ZnO-Coated Aligned Carbon Nanotube Sheets. ACS Applied Materials & Interfaces, 2014, 6, 874-881.	4.0	43
967	Aligned Nanofibers as an Interfacial Layer for Achieving High-Detectivity and Fast-Response Organic Photodetectors. ACS Applied Materials & Interfaces, 2014, 6, 7032-7037.	4.0	26
968	Nonaqueous fabrication of ZnO/Au nanohybrids with enhanced photocatalytic activity. Materials Letters, 2014, 137, 319-322.	1.3	13
969	Observation of negative differential resistance and electrical bi-stability in chemically synthesized ZnO nanorods. Journal of Applied Physics, 2014, 115, .	1.1	17
970	Mineralizer-Assisted Shape-Control of Rare Earth Oxide Nanoplates. Chemistry of Materials, 2014, 26, 6328-6332.	3.2	31
971	Investigation on the Mechanism of Nanodamage and Nanofailure for Single ZnO Nanowires under an Electric Field. ACS Applied Materials & Interfaces, 2014, 6, 2344-2349.	4.0	12
972	Selective growth of inorganic nanomaterials on an oxidized graphene scaffold. Carbon, 2014, 78, 317-325.	5.4	4
973	ZnO nanorod growth by plasma-enhanced vapor phase transport with different growth durations. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, .	0.9	2
974	Simulation and Experimental Study of Nanowire Assembly by Dielectrophoresis. IEEE Nanotechnology Magazine, 2014, 13, 517-526.	1.1	7
975	Synthesis and electrochemical properties of vanadium oxide materials and structures as Li-ion battery positive electrodes. Journal of Power Sources, 2014, 267, 831-873.	4.0	138
976	Layered zinc hydroxide nanocones: synthesis, facile morphological and structural modification, and properties. Nanoscale, 2014, 6, 13870-13875.	2.8	28
977	Novel method to enhance the visible emission of ZnO nanostructures. Chemical Physics Letters, 2014, 614, 53-56.	1.2	5
978	Position-controlled and catalyst-free growth of ZnO nanocrystals by nanoparticle-assisted pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2014, 117, 63-67.	1.1	1
979	A facile room temperature synthesis of ZnO nanoflower thin films grown at a solid-liquid interface. Journal of Materials Science, 2014, 49, 5945-5954.	1.7	11
980	Fabrication of hydrophobic poly(3,4-ethylenedioxythiophene): Poly(4-styrenesulfonate)/zinc oxide rod conductive film via hydrothermal method and their performance on weather stability and pH buffering ability. Thin Solid Films, 2014, 552, 98-104.	0.8	4
981	Surface plasmon quenched of near band edge emission and enhanced visible photocatalytic activity of Au@ZnO core-shell nanostructure. Applied Catalysis B: Environmental, 2014, 150-151, 605-611.	10.8	73
982	Polyethylenimine-assisted synthesis of transparent ZnO nanowhiskers at ambient temperatures. Thin Solid Films, 2014, 558, 134-139.	0.8	6
983	Ultrathin Zinc Oxide Nanofilm on Zinc Substrate for High Performance Electrochemical Sensors. Electrochimica Acta, 2014, 144, 186-193.	2.6	17

#	ARTICLE	IF	CITATIONS
984	Piezotronic effect enhanced Schottky-contact ZnO micro/nanowire humidity sensors. <i>Nano Research</i> , 2014, 7, 1083-1091.	5.8	81
985	Nanopillar-forest based surface-enhanced Raman scattering substrates. <i>Science China Information Sciences</i> , 2014, 57, 1-7.	2.7	2
986	Seed-layer-free hydrothermal growth of zinc oxide nanorods on porous silicon. <i>Electronic Materials Letters</i> , 2014, 10, 565-571.	1.0	5
987	Photo-physical studies of pyridine capped ZnO nanostructures. <i>Russian Journal of Physical Chemistry A</i> , 2014, 88, 1166-1171.	0.1	2
988	Fabrication and characterization of hexagonally patterned quasi-1D ZnO nanowire arrays. <i>Nanoscale Research Letters</i> , 2014, 9, 75.	3.1	6
989	Localized, Stepwise Template Growth of Functional Nanowires from an Amino Acid-Supported Framework in a Microfluidic Chip. <i>ACS Nano</i> , 2014, 8, 818-826.	7.3	21
990	Room-temperature ferromagnetism induced by Na co-doping and K co-doping in the rare earth Er doped ZnO nanocrystallites. <i>Journal of Alloys and Compounds</i> , 2014, 615, 4-11.	2.8	11
991	Fabrication of novel multi-morphological tetrazole-based infinite coordination polymers; transformation studies and their calcination to mineral zinc oxide nano- and microarchitectures. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4803.	5.2	18
992	Highly controllable and reproducible ZnO nanowire arrays growth with focused ion beam and low-temperature hydrothermal method. <i>Applied Surface Science</i> , 2014, 317, 220-225.	3.1	25
993	Self-Organized Hexagonal Nanostructures on Nickel and Steel Formed by Anodization in 1-Butyl-3-methylimidazolium bis(triflate)imide Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21293-21298.	1.5	15
994	Fabrication of Periodic Nanostructure Assemblies by Interfacial Energy Driven Colloidal Lithography. <i>Advanced Functional Materials</i> , 2014, 24, 4577-4583.	7.8	21
995	Na mole concentration dependence on optical p-type behaviors of Na-doped ZnO nanowires. <i>Current Applied Physics</i> , 2014, 14, S103-S106.	1.1	11
996	Structural and optical properties of TZO thin films. <i>Vacuum</i> , 2014, 107, 231-235.	1.6	4
997	Synthesis and antibacterial activity of mesoporous zinc oxide particle with high specific surface area. <i>Materials Letters</i> , 2014, 114, 119-121.	1.3	14
998	Synthesis and enhanced properties of cerium doped ZnO nanorods. <i>Ceramics International</i> , 2014, 40, 12337-12342.	2.3	80
999	Alignment-controlled hydrothermal growth of well-aligned ZnO nanorod arrays. <i>Journal of Physics and Chemistry of Solids</i> , 2014, 75, 808-817.	1.9	44
1000	Surfactant-assisted synthesis of monodispersed ZnO nanorods at low temperature. <i>Materials Letters</i> , 2014, 114, 84-87.	1.3	7
1001	Controlled Synthesis of Kinked Ultrathin ZnS Nanorods/Nanowires Triggered by Chloride Ions: A Case Study. <i>Small</i> , 2014, 10, 1394-1402.	5.2	35

#	ARTICLE	IF	CITATIONS
1002	Growth of oriented vanadium pentaoxide nanostructures on transparent conducting substrates and their applications in photocatalysis. <i>Journal of Solid State Chemistry</i> , 2014, 214, 79-85.	1.4	22
1003	Three-dimensional Conducting Polymer Films for Pt-free Counter Electrodes in Quasi-solid-state Dye-sensitized Solar Cells. <i>Electrochimica Acta</i> , 2014, 137, 34-40.	2.6	26
1004	Effect of ultrasonic treatment before and after hydrothermal process on the morphologies and formation mechanism of ZnO nanorods. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 521-528.	1.1	5
1005	Growth of wheel-like ZnO microstructures at low temperature. <i>Materials Research Innovations</i> , 2014, 18, 251-254.	1.0	0
1006	Anomalous Fluorescence Enhancement from Double Heterostructure 3D Colloidal Photonic Crystals—A Multifunctional Fluorescence-Based Sensor Platform. <i>Scientific Reports</i> , 2015, 5, 14439.	1.6	35
1007	Synthesis of Spherical Polymer Nanoparticles Reflecting Size of Monomer Droplets Formed by Tandem Acoustic Emulsification. <i>Chemistry Letters</i> , 2015, 44, 1584-1585.	0.7	8
1008	Synthesis of Zinc Oxide Nanowire-Nanowall-Like Hybrid Structures on Graphene. <i>Integrated Ferroelectrics</i> , 2015, 165, 146-152.	0.3	5
1009	Construction of FeS ₂ -Sensitized ZnO@ZnS Nanorod Arrays with Enhanced Optical and Photoresponse Performances. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500163.	1.9	17
1010	Contribution of TEMPO-Oxidized Cellulose Gel in the Formation of Flower-Like Zinc Oxide Superstructures: Characterization of the TOCgel/ZnO Composite Films. <i>Applied Sciences (Switzerland)</i> , 2015, 5, 1164-1183.	1.3	15
1011	Synthesis and Characterization of New Thiolated Chitosan Nanoparticles Obtained by Ionic Gelation Method. <i>International Journal of Polymer Science</i> , 2015, 2015, 1-18.	1.2	63
1012	Controllable Synthesis of Zn ₂ GeO ₄ Nanorods for Photocatalytic Reduction of Aqueous Cr(VI) and Oxidation of Organic Pollutants. <i>Journal of Nanotechnology</i> , 2015, 2015, 1-8.	1.5	7
1014	Exciton spin dynamics and photoluminescence polarization of CdSe/CdS dot-in-rod nanocrystals in high magnetic fields. <i>Physical Review B</i> , 2015, 91, .	1.1	29
1015	Dissolving behavior and electrical properties of ZnO wire in HCl solution. <i>RSC Advances</i> , 2015, 5, 44563-44566.	1.7	5
1016	Hydrogen Bonding Stabilized Self-Assembly of Inorganic Nanoparticles: Mechanism and Collective Properties. <i>ACS Nano</i> , 2015, 9, 5807-5817.	7.3	31
1017	Laser-Induced Hydrothermal Growth of Heterogeneous Metal-Oxide Nanowire on Flexible Substrate by Laser Absorption Layer Design. <i>ACS Nano</i> , 2015, 9, 6059-6068.	7.3	82
1018	Review on Biocompatibility of ZnO Nano Particles. <i>Lecture Notes in Bioengineering</i> , 2015, , 343-352.	0.3	9
1019	Calibration on force upon the surface of single ZnO nanowire applied by AFM tip with different scanning angles. <i>RSC Advances</i> , 2015, 5, 47309-47313.	1.7	1
1020	Effect of a Sn seed layer and ZnCl ₂ concentration on electrodeposited ZnO nanostructures. <i>Journal of the Korean Physical Society</i> , 2015, 66, 1253-1258.	0.3	7

#	ARTICLE	IF	CITATIONS
1021	DFT study of electronic and magnetic properties of bare and substitutionally doped ZnO nanoribbons. , 2015, , .		6
1022	ZnO-nanowires based power generation from low frequency vibration. , 2015, , .		0
1023	Synthesis of ZnO nanowire array film on Mg doped gallium nitride substrate. Materials Science and Technology, 2015, 31, 1837-1841.	0.8	3
1024	Temperature dependent photoluminescence study on ZnO/Graphene nanocomposite films. Current Applied Physics, 2015, 15, 563-566.	1.1	5
1025	Patterned growth of zinc oxide nanorods using poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 587 Td (alcohol)-N-methyl-4(4â€²-formyl) layer. Current Applied Physics, 2015, 15, 356-362.	1.1	1
1026	Application of patterned growth of aligned zinc oxide nanoarrays by mirocontact printing in quantum dots-sensitized solar cells. Journal of Power Sources, 2015, 280, 555-564.	4.0	12
1027	First-principles study on the electronic structure and optical properties of GaAs nanowires. International Journal of Modern Physics B, 2015, 29, 1550014.	1.0	2
1028	Piezotronic effect enhanced detection of flammable/toxic gases by ZnO micro/nanowire sensors. Nano Energy, 2015, 12, 588-596.	8.2	74
1029	Electronic properties and Schottky barriers at ZnOâ€™metal interfaces from first principles. Journal of Physics Condensed Matter, 2015, 27, 015006.	0.7	16
1030	Effect of the concentration of TEA on the formation of lead hydroxide micro to nanoparticle. Materials Science in Semiconductor Processing, 2015, 32, 49-54.	1.9	7
1031	Zinc oxide nanowire gas sensors: Fabrication, functionalisation and devices. Materials Science and Technology, 2015, 31, 1681-1697.	0.8	40
1032	Observation of a giant two-dimensional band-piezoelectric effect on biaxial-strained graphene. NPG Asia Materials, 2015, 7, e154-e154.	3.8	58
1033	A comprehensive review on synthesis methods for transition-metal oxide nanostructures. CrystEngComm, 2015, 17, 3551-3585.	1.3	240
1034	Fabrication of high performance field-effect transistors and practical Schottky contacts using hydrothermal ZnO nanowires. Nanotechnology, 2015, 26, 355704.	1.3	25
1035	Probing complex heterostructures using hard X-ray photoelectron spectroscopy (HAXPES). Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 332-339.	0.8	10
1036	Nature of red luminescence in oxygen treated hydrothermally grown zinc oxide nanorods. Journal of Luminescence, 2015, 168, 20-25.	1.5	22
1037	Electrical analysis of Al/ZnO/p-Si, Al/PMMA/p-Si and Al/PMMA/ZnO/p-Si structures: Comparison study. Materials Science in Semiconductor Processing, 2015, 38, 249-256.	1.9	17
1038	Synergistically enhanced photocatalytic and chemotherapeutic effects of aptamer-functionalized ZnO nanoparticles towards cancer cells. Physical Chemistry Chemical Physics, 2015, 17, 21576-21582.	1.3	38

#	ARTICLE	IF	CITATIONS
1039	Bioinspired engineering of honeycomb structure – Using nature to inspire human innovation. <i>Progress in Materials Science</i> , 2015, 74, 332-400.	16.0	501
1040	Nanostructured 2D Diporphyrin Honeycomb Film: Photoelectrochemistry, Photodegradation, and Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11783-11791.	4.0	27
1041	Vapour–liquid–solid growth of one-dimensional In_2Se_3 nanostructures and their promising field emission behaviour. <i>RSC Advances</i> , 2015, 5, 65274-65282.	1.7	25
1042	Vertical Growth of ZnO Nanocone Arrays on Polycarbonate Substrate by Voltage-Assisted Chemical Bath Deposition. <i>Advanced Materials Research</i> , 2015, 1109, 495-499.	0.3	2
1043	Phosphorus-Doped p–n Homo Junction ZnO Nanowires: Growth Kinetics in Liquid and Their Optoelectronic Properties. <i>Chemistry of Materials</i> , 2015, 27, 4216-4221.	3.2	28
1044	Synthesis of ZnO Nanowire Array Film on Mg-Doped Gallium Nitride Substrate by Simple Hydrothermal Method. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2015, 45, 1045-1048.	0.6	0
1045	Enhancing photoresponse of ionic liquid–ZnO composite: Molecular docking study. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 814-821.	4.0	4
1046	Hybrid Si nanocones/PEDOT:PSS solar cell. <i>Nanoscale Research Letters</i> , 2015, 10, 191.	3.1	26
1047	Performance and service behavior in 1-D nanostructured energy conversion devices. <i>Nano Energy</i> , 2015, 14, 30-48.	8.2	96
1048	Synthesis and characterization of different zinc(II) oxide nano-structures from two new zinc(II)–Quinoxaline coordination polymers. <i>Journal of Molecular Structure</i> , 2015, 1095, 8-14.	1.8	10
1049	The effect of substrate temperature on structural and optical properties of D.C. sputtered ZnO thin films. <i>Physica B: Condensed Matter</i> , 2015, 470-471, 21-32.	1.3	23
1050	All-wurtzite ZnO/ZnSe hetero-nanohelix: formation, mechanics and luminescence. <i>Nanoscale</i> , 2015, 7, 7299-7306.	2.8	3
1051	Density Controlled Growth of ZnO Nanowall–Nanowire 3D Networks. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12023-12029.	1.5	11
1052	AFM investigation of nanomechanical properties of ZnO nanowires. <i>RSC Advances</i> , 2015, 5, 33445-33449.	1.7	6
1053	Selective patterned growth of ZnO nanowires/nanosheets and their photoluminescence properties. <i>Optical Materials Express</i> , 2015, 5, 353.	1.6	21
1054	Influence of pH on structural, morphological and optical properties of chemically deposited nanocrystalline ZnO thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8877-8886.	1.1	6
1055	Comparative study of photocatalytic activities of hydrothermally grown ZnO nanorod on Si(001) wafer and FTO glass substrates. <i>Nanoscale Research Letters</i> , 2015, 10, 361.	3.1	9
1056	Growth of tapered silica nanowires with a shallow U-shaped vapor chamber: Growth mechanism and structural and optical properties. <i>Journal of Applied Physics</i> , 2015, 117, 164303.	1.1	5

#	ARTICLE	IF	CITATIONS
1057	Photoluminescence study of p-type vs. n-type Ag-doped ZnO films. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	12
1058	Synthesis of a ZnO nanorod/CVD graphene composite for simultaneous sensing of dihydroxybenzene isomers. <i>Carbon</i> , 2015, 95, 1-9.	5.4	67
1059	Catalyst-Free, Selective Growth of ZnO Nanowires on SiO ₂ by Chemical Vapor Deposition for Transfer-Free Fabrication of UV Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20264-20271.	4.0	69
1060	CO catalytic oxidation on Al-doped graphene-like ZnO monolayer sheets: a first-principles study. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9964-9972.	2.7	58
1061	Influence of doping group I elements on structural, optical and magnetic properties of nanocrystalline ZnO. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8089-8096.	1.1	9
1062	Determination of effective growth time for zinc oxide nanorods using chemical solution deposition. <i>Superlattices and Microstructures</i> , 2015, 88, 150-153.	1.4	8
1063	Efficient surface enhanced Raman scattering on confeito-like gold nanoparticle-adsorbed self-assembled monolayers. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32328-32334.	1.3	16
1064	Selective photochemical synthesis of Ag nanoparticles on position-controlled ZnO nanorods for the enhancement of yellow-green light emission. <i>Nanoscale</i> , 2015, 7, 20717-20724.	2.8	18
1065	Plasmon-Enhanced Whispering Gallery Mode Lasing from Hexagonal Al/ZnO Microcavity. <i>ACS Photonics</i> , 2015, 2, 73-77.	3.2	54
1066	A novel one-pot synthesis of hierarchical europium doped ZnO nanoflowers. <i>Materials Letters</i> , 2015, 142, 30-34.	1.3	25
1067	Spray coated seed layer for scalable synthesis of aligned ZnO nanowire arrays on FTO substrate and their photovoltaic properties. <i>Ceramics International</i> , 2015, 41, 4118-4122.	2.3	16
1068	Effect of oxygen vacancy on enhanced photocatalytic activity of reduced ZnO nanorod arrays. <i>Applied Surface Science</i> , 2015, 325, 112-116.	3.1	130
1069	Structural and optical studies of undoped and copper doped zinc sulphide nanoparticles for photocatalytic application. <i>Superlattices and Microstructures</i> , 2015, 77, 35-53.	1.4	34
1070	Hierarchically CdS Decorated 1D ZnO Nanorods-2D Graphene Hybrids: Low Temperature Synthesis and Enhanced Photocatalytic Performance. <i>Advanced Functional Materials</i> , 2015, 25, 221-229.	7.8	394
1071	Facile fabrication and enhanced photocatalytic properties of ZnO/Au nanocomposites through a mild wet-chemistry route. <i>Materials Letters</i> , 2015, 140, 39-42.	1.3	17
1072	Turn-off of fluorescence of styryl phenanthrimidazole on doping ZnO nanoparticles with Ce ³⁺ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 264-269.	2.0	5
1073	Zn vacancy induced green luminescence on non-polar surfaces in ZnO nanostructures. <i>Scientific Reports</i> , 2014, 4, 5158.	1.6	144
1074	Donor–acceptor binding interaction of 1-(naphthalene-1-yl)-2,4,5-triphenyl-1H-imidazole with semiconductor nanomaterials. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 333-337.	2.0	0

#	ARTICLE	IF	CITATIONS
1075	Large Scale Synthesis of ZnO Nanostructures of Different Morphologies through Solvent-free Mechanochemical Synthesis and their Application in Photocatalytic Dye Degradation. American Journal of Engineering and Applied Sciences, 2016, 9, 41-52.	0.3	10
1076	Patterned Well-Aligned ZnO Nanorods Assisted with Polystyrene Monolayer by Oxygen Plasma Treatment. Materials, 2016, 9, 656.	1.3	5
1077	Scalable ZnO nanotube arrays grown on CVD-graphene films. APL Materials, 2016, 4, 106104.	2.2	23
1078	Rapid synthesis of zinc oxide nanoforest: use of microwave and forced seeding. Materials Research Express, 2016, 3, 125004.	0.8	7
1079	Optical characterization of ZnO nanomaterial with praseodymium ions. AIP Conference Proceedings, 2016, , .	0.3	0
1080	Measurement of Spurious Voltages in ZnO Piezoelectric Nanogenerators. Journal of Microelectromechanical Systems, 2016, 25, 533-541.	1.7	18
1081	Molybdenum-loaded 1,5-diaminonaphthalene/ZnO materials with improved electrical properties and affinity towards hydrogen at ambient conditions. International Journal of Hydrogen Energy, 2016, 41, 11232-11241.	3.8	16
1082	Fe-doping effect on the photoelectrochemical properties enhancement of ZnO films. Journal of Alloys and Compounds, 2016, 685, 107-113.	2.8	47
1083	lonothermal precipitation of highly dispersive ZnO nanoparticles with improved photocatalytic performance. Applied Surface Science, 2016, 384, 73-82.	3.1	68
1084	Investigation of the thermal decomposition of a new titanium dioxide material. Journal of Thermal Analysis and Calorimetry, 2016, 125, 1071-1078.	2.0	19
1085	Surface-enhanced Raman scattering activities of gold nanocap arrays and hollow gold nanocap particles. Spectroscopy Letters, 2016, 49, 413-419.	0.5	2
1086	Real structure of the ZnO epitaxial films on (0001) leucosapphire substrates coated by ultrathin gold layers. Crystallography Reports, 2016, 61, 63-65.	0.1	3
1087	Fabrication of Mg-doped ZnO nanofibers with high purities and tailored band gaps. Ceramics International, 2016, 42, 10021-10029.	2.3	40
1088	Inorganic photovoltaics â€“ Planar and nanostructured devices. Progress in Materials Science, 2016, 82, 294-404.	16.0	50
1089	Continuous synthesis of hedgehog-like Agâ€“ZnO nanoparticles in a two-stage microfluidic system. RSC Advances, 2016, 6, 45503-45511.	1.7	24
1090	Vertically aligned ZnO nanorods of high crystalline and optical quality grown by dc reactive sputtering. Materials Research Express, 2016, 3, 095009.	0.8	6
1091	Electrically Pumped Whispering Gallery Mode Lasing from Au/ZnO Microwire Schottky Junction. Advanced Optical Materials, 2016, 4, 2063-2067.	3.6	21
1092	Hierarchical Organization in Two and Three Dimensions. Nanoscience and Technology, 2016, , 69-102.	1.5	0

#	ARTICLE	IF	CITATIONS
1093	Effects of high-temperature rapid thermal annealing for seed layers on the crystallographic evolution in hydrothermal ZnO nanostructures. <i>Materials Science in Semiconductor Processing</i> , 2016, 56, 127-136.	1.9	6
1094	Effect of defects in oxide templates on Non-catalytic growth of GaN nanowires for high-efficiency light-emitting diodes. <i>Journal of the Korean Physical Society</i> , 2016, 68, 864-868.	0.3	0
1096	Precipitation Preparation of High Surface Area and Porous Nanosized ZnO by Continuous Gas-Based Impinging Streams in Unconfined Space. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 11943-11949.	1.8	17
1097	Chlorine sensing properties of zinc oxide resistive gas sensor doped with platinum. , 2016, , .		2
1098	Ultrabroadband Optical Superchirality in a 3D Stacked Patch Plasmonic Metamaterial Designed by Two-Step Glancing Angle Deposition. <i>Advanced Functional Materials</i> , 2016, 26, 7807-7816.	7.8	58
1099	Structural and optical properties of vanadium doped SnO ₂ nanoparticles with high photocatalytic activities. <i>Journal of Luminescence</i> , 2016, 179, 26-34.	1.5	47
1100	Temperature-dependent optical phonon replicas characteristics of Mg Zn _{1-x} O alloy nanowires. <i>Journal of Luminescence</i> , 2016, 180, 264-268.	1.5	2
1101	Investigation of nanostructured Pd/Ag/n-ZnO thin film based Schottky junction for methane sensing. <i>International Nano Letters</i> , 2016, 6, 199-210.	2.3	10
1102	Adhesion of Morphologically Distinct Crystals to and Selective Release from Elastomeric Surfaces. <i>Chemistry of Materials</i> , 2016, 28, 8513-8522.	3.2	4
1103	Frequency-resolved optical gating measurement of ultrashort pulses by using single nanowire. <i>Scientific Reports</i> , 2016, 6, 33181.	1.6	11
1104	One-step solvothermal deposition of ZnO nanorod arrays on a wood surface for robust superamphiphobic performance and superior ultraviolet resistance. <i>Scientific Reports</i> , 2016, 6, 35505.	1.6	45
1105	Improving the extraction efficiency of planar GaN-based blue light-emitting diodes via optimizing indium tin oxide nanodisc arrays. <i>Journal of Display Technology</i> , 2016, , 1-1.	1.3	6
1106	Vertically aligned ZnO/Au@CdS core-shell nanorod arrays as an all-solid-state vectorial Z-scheme system for photocatalytic application. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18804-18814.	5.2	122
1107	Fabrication and characterization of SiO ₂ /Si heterogeneous nanopillar arrays. <i>Nanotechnology</i> , 2016, 27, 305301.	1.3	3
1108	Preparation of Au Nanocolloids by in Situ Dispersion and Their Applications in Surface-Enhanced Raman Scattering (SERS) Films. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6783-6791.	1.8	8
1109	Spun-wrapped aligned nanofiber (SWAN) lithography for fabrication of micro/nano-structures on 3D objects. <i>Nanoscale</i> , 2016, 8, 12780-12786.	2.8	7
1110	Template-free syntheses of hierarchical PbS microstructures using a new sulphur source and their time-dependent morphological evolution and photocatalytic properties. <i>RSC Advances</i> , 2016, 6, 56790-56799.	1.7	6
1111	Hydrodynamic fabrication of structurally gradient ZnO nanorods. <i>Nanotechnology</i> , 2016, 27, 085704.	1.3	4

#	ARTICLE	IF	CITATIONS
1112	Fabrication of chiral-molecular@ nanoparticle complex materials with great chiroptical effect in visible region. <i>Microelectronic Engineering</i> , 2016, 153, 24-28.	1.1	0
1113	An extreme high-performance ultraviolet photovoltaic detector based on a ZnO nanorods/phenanthrene heterojunction. <i>RSC Advances</i> , 2016, 6, 12076-12080.	1.7	15
1114	Mesoporous ZnO@SiO ₂ core-shell rods for UV absorbing and non-wetting applications. <i>Materials Research Express</i> , 2016, 3, 025001.	0.8	6
1115	Catalyst free vapor-solid deposition of morphologically different $\text{In}^{2+}\text{Ga}^{2+}\text{O}^{3+}$ nanostructure thin films for selective CO gas sensors at low temperature. <i>Analytical Methods</i> , 2016, 8, 3224-3235.	1.3	27
1116	Rational Synthesis of Three-Dimensional Nanosuperstructures for Applications in Energy Storage and Conversion. <i>IEEE Transactions on Device and Materials Reliability</i> , 2016, 16, 475-482.	1.5	2
1117	Direct Holographic Patterning of ZnO. <i>Advanced Functional Materials</i> , 2016, 26, 1787-1792.	7.8	12
1118	Recent developments in nanowires for bio-applications from molecular to cellular levels. <i>Lab on A Chip</i> , 2016, 16, 1126-1138.	3.1	43
1119	Effect of Annealing Temperature on NiO/ZnO Heterojunction Thin Films Prepared by Sol-Gel Method. <i>Key Engineering Materials</i> , 0, 675-676, 225-228.	0.4	3
1120	Nanostructures of 3-aminopropyltriethoxysilane created on flat substrate by combining colloid lithography and vapor deposition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 495, 39-45.	2.3	5
1121	Origin of the 3.331 eV emission in ZnO nanorods: Comparison of vapour phase transport and pulsed laser deposition grown nanorods. <i>Journal of Luminescence</i> , 2016, 175, 117-121.	1.5	4
1122	Hierarchical zinc oxide nano-tips and micro-rods: hydrothermal synthesis and improved chemi-resistive response towards ethanol. <i>RSC Advances</i> , 2016, 6, 1408-1414.	1.7	12
1123	Novel nano coordination polymer based synthesis of porous ZnO hexagonal nanodisk for higher gas sorption and photocatalytic activities. <i>Applied Surface Science</i> , 2016, 362, 265-273.	3.1	30
1124	Performance enhancement in ZnO nanowire based double Schottky-barrier photodetector by applying optimized Ag nanoparticles. <i>RSC Advances</i> , 2016, 6, 4634-4639.	1.7	34
1125	Facile fabrication of core-shell ZnO/Bi _{0.5} Sb _{1.5} Te ₃ nanorods: Enhanced photoluminescence through electron charge. <i>Applied Surface Science</i> , 2016, 361, 95-101.	3.1	6
1126	Metal-organo-zinc oxide materials: Investigation on the structural, optical and electrical properties. <i>Journal of Alloys and Compounds</i> , 2016, 656, 146-153.	2.8	28
1127	Fluorescence enhancement and multiple protein detection in ZnO nanostructure microfluidic devices. <i>Biosensors and Bioelectronics</i> , 2016, 75, 285-292.	5.3	38
1128	Induction of zinc particles on the morphology and photoluminescent property of globular Zn/ZnO core/shell nanorod heterojunction array architectures. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 383-394.	1.3	4
1129	Monitoring of ppm level humic acid in surface water using ZnO@chitosan nano-composite as fluorescence probe. <i>Applied Water Science</i> , 2017, 7, 1025-1031.	2.8	26

#	ARTICLE	IF	CITATIONS
1130	Study of interfacial charge transfer in nanosemiconductorâ€“molecule composites. Journal of Physical Organic Chemistry, 2017, 30, e3600.	0.9	0
1131	Chemical, vibrational and optical signatures of nitrogen in ZnO nanowires. Materials Science in Semiconductor Processing, 2017, 69, 57-61.	1.9	2
1132	Growth of ZnO nanowires on multi-layered polymer structures fabricated by UV liquid transfer imprint lithography. Microelectronic Engineering, 2017, 176, 45-53.	1.1	4
1133	Strain powered antennas. Journal of Applied Physics, 2017, 121, .	1.1	85
1134	Liquid crystal templating of nanomaterials with nature's toolbox. Current Opinion in Colloid and Interface Science, 2017, 29, 9-20.	3.4	40
1135	Synthesis and enhanced gas sensing properties of flower-like ZnO/Î±-Fe ₂ O ₃ core-shell nanorods. Ceramics International, 2017, 43, 5934-5940.	2.3	27
1136	Driving Surface Chemistry at the Nanometer Scale Using Localized Heat and Stress. Nano Letters, 2017, 17, 2111-2117.	4.5	35
1137	Formation of charge-nanopatterned templates with flexible geometry via layer by layer deposition of polyelectrolytes for directed self-assembly of gold nanoparticles. Nanotechnology, 2017, 28, 135303.	1.3	13
1138	Growth and physical properties of ZnO rod arrays that integrally match the geometries of photoresists with hole sizes larger than rods' habit diameters. Journal of Alloys and Compounds, 2017, 704, 131-140.	2.8	1
1139	Optimum post-growth rapid thermal annealing temperature for the structural and optical properties of hydrothermal ZnO Nanorods. , 2017, , .		1
1140	Magnetostrictive Feâ€“Ga/Cu Nanowires Array With GMR Sensor for Sensing Applied Pressure. IEEE Sensors Journal, 2017, 17, 2015-2020.	2.4	13
1141	Photoluminescence and electrical properties of bidirectional ZnO nanowires on Zn foils via a thermal oxidation method. RSC Advances, 2017, 7, 5807-5812.	1.7	10
1142	Epitaxial growth of ZnO nanorod arrays via a self-assembled microspheres lithography. Applied Surface Science, 2017, 414, 212-217.	3.1	16
1143	Effect of calcium- and/or aluminum-incorporation on morphological, structural and photoluminescence properties of electro-spun zinc oxide fibers. Materials Research Bulletin, 2017, 92, 9-18.	2.7	15
1144	Novel controlled synthesis of nanoporous carbon nanorods from resorcinol-formaldehyde xerogels. Materials Letters, 2017, 201, 181-184.	1.3	2
1145	Temperature and solution assisted synthesis of anisotropic ZnO nanostructures by pulsed laser ablation. Applied Surface Science, 2017, 414, 413-423.	3.1	17
1146	Ammonia-Assisted Wet-Chemical Synthesis of ZnO Microrod Arrays on Substrates for Microdroplet Transfer. Langmuir, 2017, 33, 6143-6150.	1.6	6
1147	Recent advances in free-standing single crystalline wide band-gap semiconductors and their applications: GaN, SiC, ZnO, Î²-Ga ₂ O ₃ , and diamond. Journal of Materials Chemistry C, 2017, 5, 8338-8354.	2.7	180

#	ARTICLE	IF	CITATIONS
1148	Morphology-controllable growth of vertical ZnO nanorod arrays by a polymer soft template method: Growth mechanism and optical properties. <i>Journal of Alloys and Compounds</i> , 2017, 725, 1018-1026.	2.8	22
1149	Investigation of structural, morphological and optical properties of Mg: ZnO thin films prepared by sol-gel spin coating method. <i>Vacuum</i> , 2017, 146, 524-529.	1.6	25
1150	Facile synthesis of ZnO/CdS@ZIF-8 core-shell nanocomposites and their applications in photocatalytic degradation of organic dyes. <i>RSC Advances</i> , 2017, 7, 31365-31371.	1.7	54
1151	ZnO nanowire growth by chemical vapor deposition with spatially controlled density on Zn ₂ GeO ₄ :Mn polycrystalline substrates. <i>Materials Research Express</i> , 2017, 4, 065012.	0.8	12
1152	Integration of core/shell nanoparticle and QCM-D sensors in a single device: A new approach to the in situ detection of solvent content in thin adsorbed films with minimized response to spurious bulk refractive index changes. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 396-403.	4.0	8
1153	Flow-directed synthesis of spatially variant arrays of branched zinc oxide mesostructures. <i>Nanoscale</i> , 2017, 9, 8393-8400.	2.8	6
1154	Plasmon-Enhanced Photoelectrochemical Water Splitting on Gold Nanoparticle Decorated ZnO/CdS Nanotube Arrays. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4249-4257.	3.2	254
1155	Study of Photoinduced Electron Transfer Process in Ruthenium Complex Modified Zinc Oxide Nanoparticles by Ultrafast Time-Resolved Transient Absorption Spectroscopy. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017, 27, 39-47.	1.9	4
1156	Highly enhanced H ₂ S gas sensing and magnetic performances of metal doped hexagonal ZnO monolayer. <i>Vacuum</i> , 2017, 141, 109-115.	1.6	34
1157	Nanogenerators: An emerging technology towards nanoenergy. <i>APL Materials</i> , 2017, 5, .	2.2	164
1158	Microscopy study, structural and optical properties correlated with the morphology of metallic nanoparticles embedded in synthetic sapphire. <i>Journal of Microscopy and Ultrastructure</i> , 2017, , .	0.1	0
1159	Facile synthesis of hierarchical ZnO microstructures with enhanced photocatalytic activity. <i>Materials Science-Poland</i> , 2017, 35, 45-49.	0.4	21
1160	Structured Nanoparticles from the Self-Assembly of Polymer Blends through Rapid Solvent Exchange. <i>Langmuir</i> , 2017, 33, 6021-6028.	1.6	33
1161	Synthesis of p-n junctions in ZnO nanorods by O ⁺ ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 409, 143-146.	0.6	6
1162	Fabrication and photoluminescence properties of color-tunable light emitting lanthanide doped GdVO ₄ hierarchitectures. <i>Journal of Luminescence</i> , 2017, 184, 150-159.	1.5	8
1163	Nanoarchitected Design of Porous Materials and Nanocomposites from Metal-Organic Frameworks. <i>Advanced Materials</i> , 2017, 29, 1604898.	11.1	732
1164	A novel fabrication methodology for sulfur-doped ZnO nanorods as an active photoanode for improved water oxidation in visible-light regime. <i>Nanotechnology</i> , 2017, 28, 055602.	1.3	33
1165	Ultrafast Three-Dimensional X-ray Imaging of Deformation Modes in ZnO Nanocrystals. <i>Nano Letters</i> , 2017, 17, 1102-1108.	4.5	25

#	ARTICLE	IF	CITATIONS
1166	Low-temperature rapid syntheses of high-quality ZnO nanostructure arrays induced by ammonium salt. <i>Chemical Physics Letters</i> , 2017, 668, 47-55.	1.2	3
1167	Nanoformulation and Application of Phytochemicals as Antimicrobial Agents. , 2017, , 61-82.		11
1168	Design and tailoring of patterned ZnO nanostructures for energy conversion applications. <i>Science China Materials</i> , 2017, 60, 793-810.	3.5	34
1169	Polymerization of alkyl methacrylate nanoemulsions made by the phase inversion temperature method. <i>Colloid and Polymer Science</i> , 2017, 295, 2243-2249.	1.0	3
1170	Ultraintense UV emission from ZnO-sheathed ZnS nanorods. <i>Scientific Reports</i> , 2017, 7, 13034.	1.6	10
1171	Fast identification of the conduction-type of nanomaterials by field emission technique. <i>Scientific Reports</i> , 2017, 7, 13057.	1.6	6
1172	Copper Hydroxide Porous Nanotube Arrays Grown on Copper Foils as High-Performance Integrated Electrodes for Supercapacitors. <i>ChemistrySelect</i> , 2017, 2, 9570-9576.	0.7	12
1173	Growth of NiO nanorods, SiC nanowires and monolayer graphene <i>via</i> a CVD method. <i>Green Chemistry</i> , 2017, 19, 5599-5607.	4.6	22
1174	A broadband photodetector based on Rhodamine B-sensitized ZnO nanowires film. <i>Scientific Reports</i> , 2017, 7, 11384.	1.6	26
1175	Polydopamine thin film-assisted patterned chemical bath deposition of ZnO nanorods on arbitrary substrates. <i>CrystEngComm</i> , 2017, 19, 6182-6188.	1.3	4
1176	Antibacterial activity of the thin ZnO film formed by atomic layer deposition under UV-A light. <i>Chemical Engineering Journal</i> , 2017, 328, 988-996.	6.6	48
1177	On the Frequency and Voltage-Dependent Profiles of the Surface States and Series Resistance of Au/ZnO/n-Si Structures in a Wide Range of Frequency and Voltage. <i>Journal of Electronic Materials</i> , 2017, 46, 5728-5736.	1.0	34
1178	Time-domain thermoreflectance (TDTR) measurements of anisotropic thermal conductivity using a variable spot size approach. <i>Review of Scientific Instruments</i> , 2017, 88, 074901.	0.6	101
1179	Adsorption of Gas Molecules on Graphene-Like ZnO Nanosheets: The Roles of Gas Concentration, Layer Number, and Heterolayer. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700647.	1.9	33
1180	Identification of polar and nonpolar faces in ZnO nanostructures using conductive atomic force microscopy. <i>Ferroelectrics</i> , 2017, 519, 157-163.	0.3	1
1181	Solution processed ZnO homogeneous quasisuperlattice materials. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, 061517.	0.9	3
1182	Molecular dynamics simulation of ZnO wurtzite phase under high and low pressures and temperatures. <i>Materials Research Express</i> , 2017, 4, 115016.	0.8	1
1183	Influence of Fe-doping on the structural, optical and luminescent behavior of ZnO thin films deposited by spin coating technique. <i>Vacuum</i> , 2017, 146, 478-482.	1.6	12

#	ARTICLE	IF	CITATIONS
1184	High-performance of self-powered UV photodetector with long-term stability based on ZnO nanorods and an iodine-free quasi solid-state electrolyte. RSC Advances, 2017, 7, 29440-29445.	1.7	12
1185	Chemical vapor deposition-based growth of aligned ZnO nanowires on polycrystalline Zn ₂ GeO ₄ :Mn substrates. Journal of Materials Science, 2017, 52, 9324-9334.	1.7	13
1186	Enhanced photocatalytic performance of novel electrospun BN/TiO ₂ composite nanofibers. New Journal of Chemistry, 2017, 41, 81-89.	1.4	79
1187	Synthesis of Li-doped ZnO via sol-gel process: structural, optical and photocatalytic properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 2817-2825.	1.1	9
1188	Rapid and Sensitive Detection of Malachite Green and Melamine with Silver Film over Nanospheres by Surface-Enhanced Raman Scattering. Plasmonics, 2017, 12, 1169-1175.	1.8	15
1189	A Comparative Study of Nanowire Arrays for Maximum Power Transmission. , 2017, , .		2
1190	Fabrication of TiO ₂ nanowire arrays using laser interference lithography aided hydrothermal method. , 2017, , .		0
1191	Influence of Erbium Doping on Hydrothermally Synthesized ZnO Nanostructures and Their Enhanced Gas Sensing Properties. Current Smart Materials, 2017, 2, .	0.5	1
1192	The structural, electronic and optical properties of Au-ZnO interface structure from the first-principles calculation. Modern Physics Letters B, 2018, 32, 1850107.	1.0	3
1193	CdTe quantum-dot-modified ZnO nanowire heterostructure. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	4
1194	Enhanced acetone detection using Au doped ZnO thin film sensor. Journal of Materials Science: Materials in Electronics, 2018, 29, 15315-15320.	1.1	40
1195	1D alignment of ZnO@ZIF-8/67 nanorod arrays for visible-light-driven photoelectrochemical water splitting. Applied Surface Science, 2018, 448, 254-260.	3.1	60
1196	CdSe quantum dots sensitized ZnO nanorods for solar cell application. Materials Letters, 2018, 223, 227-230.	1.3	26
1198	Photoelectrode for water splitting: Materials, fabrication and characterization. Science China Materials, 2018, 61, 806-821.	3.5	44
1199	Core/shell structured Zn/ZnO nanoparticles synthesized by gaseous laser ablation with enhanced photocatalysis efficiency. Applied Surface Science, 2018, 442, 101-105.	3.1	44
1200	Continuous Synthesis of Ag/AgCl/ZnO Composites Using Flow Chemistry and Photocatalytic Application. Industrial & Engineering Chemistry Research, 2018, 57, 3263-3273.	1.8	40
1201	Electrochemical photocurrent enhancement in a ZnO-perovskite heterojunction using piezoelectric effect. Electrochimica Acta, 2018, 266, 110-117.	2.6	7
1202	Effects of doping concentration on structural, morphological, optical and electrical properties of tungsten doped V ₂ O ₅ nanorods. Ceramics International, 2018, 44, 7098-7109.	2.3	15

#	ARTICLE	IF	CITATIONS
1203	Interfacial thermal and electrical transport properties of pristine and nanometer-scale ZnS modified grain boundary in ZnO polycrystals. <i>Acta Materialia</i> , 2018, 148, 100-109.	3.8	11
1204	Investigation of the growth and in situ heating transmission electron microscopy analysis of Ag ₂ S-catalyzed ZnS nanowires. <i>Applied Surface Science</i> , 2018, 436, 556-561.	3.1	11
1205	Elucidating doping driven microstructure evolution and optical properties of lead sulfide thin films grown from a chemical bath. <i>Applied Surface Science</i> , 2018, 435, 444-451.	3.1	3
1206	Metal Oxide Particles and Their Prospects for Applications. , 2018, , 3-42.		20
1207	ZnO Nanowall Networks for Sensor Devices: From Hydrothermal Synthesis to Device Demonstration. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, Q3114-Q3119.	0.9	6
1208	Characterization and Modeling of Catalyst-free Carbon-Assisted Synthesis of ZnO Nanowires. <i>Journal of Manufacturing Processes</i> , 2018, 32, 438-444.	2.8	3
1209	Ordered porous metal oxide semiconductors for gas sensing. <i>Chinese Chemical Letters</i> , 2018, 29, 405-416.	4.8	134
1210	Pt-decorated zinc oxide nanorod arrays with graphitic carbon nitride nanosheets for highly efficient dual-functional gas sensing. <i>Journal of Hazardous Materials</i> , 2018, 341, 102-111.	6.5	255
1211	Microstructural evolution and photoluminescence performance of nickel and chromium doped ZnO nanostructures. <i>Materials Chemistry and Physics</i> , 2018, 205, 9-15.	2.0	10
1212	ZnO:Ag nanorods as efficient photocatalysts: Sunlight driven photocatalytic degradation of sulforhodamine B. <i>Applied Surface Science</i> , 2018, 427, 863-875.	3.1	58
1213	Perovskite Solar Cells with ZnO Electron-Transporting Materials. <i>Advanced Materials</i> , 2018, 30, 1703737.	11.1	319
1214	Core/Shell of p-Cu _x O/n-ZnO Nanowire Arrays for H ₂ S Gas Sensor. <i>Solid State Phenomena</i> , 0, 283, 7-15.	0.3	1
1215	Luminescence characteristics of rare-earth-doped barium hexafluorogermanate BaGeF ₆ nanowires: fast subnanosecond decay time and high sensitivity in H ₂ O ₂ detection. <i>RSC Advances</i> , 2018, 8, 39296-39306.	1.7	13
1216	Metal enhanced fluorescence biosensing: from ultra-violet towards second near-infrared window. <i>Nanoscale</i> , 2018, 10, 20914-20929.	2.8	111
1217	Photoluminescence Study of the Influence of Additive Ammonium Hydroxide in Hydrothermally Grown ZnO Nanowires. <i>Nanoscale Research Letters</i> , 2018, 13, 249.	3.1	14
1218	Synthesis and characterization of Hierarchically assembled ZnO Nanoparticles and its application in modified carbon paste electrode for electrochemical detection of Biomolecules. <i>Materials Today: Proceedings</i> , 2018, 5, 20947-20954.	0.9	2
1219	Guided Assembly of Block Copolymers in Three-Dimensional Woodpile Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42933-42940.	4.0	6
1220	Advanced colloidal lithography: From patterning to applications. <i>Nano Today</i> , 2018, 22, 36-61.	6.2	120

#	ARTICLE	IF	CITATIONS
1222	High performance and low temperature coal mine gas sensor activated by UV-irradiation. Scientific Reports, 2018, 8, 16298.	1.6	10
1223	Branched CdO/ZnO Core/Shell Heterogeneous Structure and Its Enhanced Photoelectrocatalytic Performance. ACS Omega, 2018, 3, 11517-11525.	1.6	15
1224	Pronounced effects of argon plasma etching on photoluminescence and Schottky contact properties of Pt/ZnO nanorods. Optical Materials, 2018, 84, 404-408.	1.7	2
1225	Multi-scale simulations of polymeric nanoparticle aggregation during rapid solvent exchange. Journal of Chemical Physics, 2018, 149, 084904.	1.2	11
1226	PPV derivative/ZnO nanorods heterojunction: Fabrication, Characterization and Near-UV light sensor development. Materials Research Bulletin, 2018, 106, 28-34.	2.7	15
1227	Tuning the rod diameter of ZnO nanorods on porous silicon by incorporating graphene. Results in Physics, 2018, 10, 132-137.	2.0	6
1228	Beyond Chemical Bonding Interaction: An Insight into the Growth Process of 1D ZnO on Few-Layer Graphene for Excellent Photocatalytic and Room Temperature Gas Sensing Applications. ChemistrySelect, 2018, 3, 7302-7309.	0.7	13
1229	Reaction temperature-dependent growth of ZnS nanomaterials. Micro and Nano Letters, 2018, 13, 157-159.	0.6	1
1230	Tailoring Thin-Film Piezoelectrics for Crash Sensing. Small, 2018, 14, e1800608.	5.2	3
1231	Thermolysis of Polymeric Metal Chelates. Springer Series on Polymer and Composite Materials, 2018, , 247-350.	0.5	1
1232	Structural Chemical Modification of Semiconductor Nano-Crystals. , 2018, , 1-52.		1
1233	Small-Scale Biological and Artificial Multidimensional Sensors for 3D Sensing. Small, 2018, 14, e1801145.	5.2	16
1234	Fe ₃ O ₄ @ PLGA-PEG Nanocomposite for Improved Delivery of Methotrexate in Cancer Treatment. ChemistrySelect, 2018, 3, 8522-8528.	0.7	11
1235	Dielectric properties, electrical modulus and current transport mechanisms of Au/ZnO/n-Si structures. Progress in Natural Science: Materials International, 2018, 28, 325-331.	1.8	53
1236	Recent developments in photonic, plasmonic and hybrid nanowire waveguides. Journal of Materials Chemistry C, 2018, 6, 11795-11816.	2.7	32
1237	Large Area Synthesis of Vertical Aligned Metal Oxide Nanosheets by Thermal Oxidation of Stainless Steel Mesh and Foil. Materials, 2018, 11, 884.	1.3	5
1238	Patterned Nanobrush Nature Mimics with Unprecedented Water-Harvesting Efficiency. Advanced Materials Interfaces, 2018, 5, 1800667.	1.9	19
1239	Porphyrim-Functionalized Zinc Oxide Nanostructures for Sensor Applications. Sensors, 2018, 18, 2279.	2.1	25

#	ARTICLE	IF	CITATIONS
1240	Study of the Growth and Concentration Fields of ZnO Nanostructures in a Double-Tube Furnace. Journal of Chemical Engineering of Japan, 2018, 51, 210-215.	0.3	0
1241	Effect of CHF ₃ /Ar Gas Flow Ratio on Self-masking Subwavelength Structures Prepared on Fused Silica Surface. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 349-355.	0.4	0
1242	Optimization of the CVD parameters for ZnO nanorods growth: Its photoluminescence and field emission properties. Materials Research Bulletin, 2018, 105, 237-245.	2.7	40
1243	Facile synthesis of Al-doping 1D ZnO nanoneedles by co-precipitation method for efficient removal of methylene blue. Nano Structures Nano Objects, 2018, 16, 250-257.	1.9	19
1244	Ultrasound assisted synthesis of a zinc(II) coordination polymer with nano-flower morphology and the use as precursor for zinc(II) oxide nanoparticles. Polyhedron, 2018, 155, 94-101.	1.0	4
1245	Waste-cleaning waste: synthesis of ZnO porous nano-sheets from batteries for dye degradation. Environmental Science and Pollution Research, 2018, 25, 28594-28600.	2.7	12
1246	Optical couplers for sharply bended nanowires: Sensitivity to coupler nanoparticles. , 2018, , .		1
1247	Photoelectric Detectors Based on Inorganic p-type Semiconductor Materials. Advanced Materials, 2018, 30, e1706262.	11.1	344
1248	Synthesis of zinc oxide microrod arrays and their performance as piezo-generators. Materials Technology, 2018, 33, 575-581.	1.5	3
1249	Realization of Nanostroke with a Violet-Light-Emitting Device with High Monochromaticity. ACS Applied Nano Materials, 2019, 2, 4804-4809.	2.4	3
1250	Light Trapping-Mediated Room-Temperature Gas Sensing by Ordered ZnO Nano Structures Decorated with Plasmonic Au Nanoparticles. ACS Omega, 2019, 4, 12071-12080.	1.6	21
1251	Growth Mechanism and Optical Properties of Nano and Microstructures of ZnO Obtained by Thermal Oxidation of Zinc Powders at Atmospheric Pressure. Solid State Phenomena, 2019, 286, 33-39.	0.3	2
1252	A facile one pot flash combustion synthesis of ZnO nanoparticles and their characterizations for photocatalytic applications. Journal of Molecular Structure, 2019, 1197, 610-616.	1.8	51
1253	Morphological, optical, photocatalytic and electrochemical properties of hydrothermally grown ZnO nanoflowers with variation in hydrothermal temperature. Materials Science in Semiconductor Processing, 2019, 104, 104648.	1.9	34
1254	Piezotronics and Piezo-phototronics of Third Generation Semiconductor Nanowires. Chemical Reviews, 2019, 119, 9303-9359.	23.0	213
1255	Direct detection of melamine in infant formula milk powder solution based on SERS effect of silver film over nanospheres. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 223, 117269.	2.0	19
1256	Fabrication on bioinspired surfaces. , 2019, , 99-146.		15
1257	The engineered nanoparticles in food chain: potential toxicity and effects. SN Applied Sciences, 2019, 1, 1.	1.5	31

#	ARTICLE	IF	CITATIONS
1259	Semiconductor nanowire plasmonic lasers. <i>Nanophotonics</i> , 2019, 8, 2091-2110.	2.9	40
1260	High-Throughput Identification and Screening of Single Microbial Cells by Nanobowl Array. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44933-44940.	4.0	2
1261	Design of a piezoelectric energy harvesting device based on ZnO ₂ /Ti ₆ O ₁₃ heterojunction nanogenerator. <i>Materials Research Express</i> , 2019, 6, 1150e9.	0.8	2
1263	Effects of NaHCO ₃ Acclimation on Rye (<i>Secale Cereale</i>) Growth Under Sodic-Alkaline Stress. <i>Plants</i> , 2019, 8, 314.	1.6	8
1264	Variation in chemical bath pH and the corresponding precursor concentration for optimizing the optical, structural and morphological properties of ZnO thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17747-17758.	1.1	24
1265	Strain-Mediated Bending of InP Nanowires through the Growth of an Asymmetric InAs Shell. <i>Nanomaterials</i> , 2019, 9, 1327.	1.9	8
1266	On the piezopotential properties of two-dimensional materials. <i>Nano Energy</i> , 2019, 58, 568-578.	8.2	37
1267	Influence of rare-earth substitution on the structural, magnetic, optical and dielectric properties of ZnO nanoparticles. <i>MRS Advances</i> , 2019, 4, 675-682.	0.5	1
1268	Antibacterial Application on Staphylococcus aureus Using Antibiotic Agent/Zinc Oxide Nanorod Arrays/Polyethylene glycol Composite Samples. <i>Nanomaterials</i> , 2019, 9, 713.	1.9	15
1269	A Facile and Flexible Approach for Large-Scale Fabrication of ZnO Nanowire Film and Its Photocatalytic Applications. <i>Nanomaterials</i> , 2019, 9, 846.	1.9	3
1270	Position- and Polarization-Specific Waveguiding of Multi-Emissions in Single ZnO Nanorods. <i>ACS Photonics</i> , 2019, 6, 1416-1424.	3.2	5
1271	High efficiency bi-harvesting light/vibration energy using piezoelectric zinc oxide nanorods for dye decomposition. <i>Nano Energy</i> , 2019, 62, 376-383.	8.2	240
1272	Metal Oxide Nanoarrays for Chemical Sensing: A Review of Fabrication Methods, Sensing Modes, and Their Inter-correlations. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	47
1273	In-situ fabrication of ZnO thin film electrode using spent Zn-C battery and its electrochemical performance for supercapacitance. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	15
1274	Adsorption of toxic gas molecules on pristine and transition metal doped hexagonal GaN monolayer: A first-principles study. <i>Vacuum</i> , 2019, 165, 35-45.	1.6	74
1275	Analysis of vertical phase distribution in reactively sputtered zinc oxysulfide thin films. <i>Applied Surface Science</i> , 2019, 486, 555-560.	3.1	19
1276	The Effect of Degenerate Plasma on the Frequency Spectra of Slow Waves in Helix Traveling-Wave Tube. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 2571-2581.	0.6	3
1277	Material patterning on substrates by manipulation of fluidic behavior. <i>National Science Review</i> , 2019, 6, 758-766.	4.6	11

#	ARTICLE	IF	CITATIONS
1278	Vertical Self-Assembly of Polarized Phage Nanostructure for Energy Harvesting. Nano Letters, 2019, 19, 2661-2667.	4.5	39
1279	Morphology Control by Pulsed Laser in Chemical Deposition Illustrated in ZnO Crystal Growth. Crystal Growth and Design, 2019, 19, 2912-2918.	1.4	15
1280	In situ growth of ZnO nanowire film on nanocrystalline zinc electrodeposit via a low-temperature hydrothermal reaction. Results in Physics, 2019, 12, 1446-1449.	2.0	6
1281	“Clickable” Metal-Oxide Nanomaterials Surface-Engineered by Gas-Phase Covalent Functionalization with Prop-2-ynoic Acid. Chemistry of Materials, 2019, 31, 2068-2077.	3.2	7
1282	Application of N-doped ZnO Nanorods in Heterojunction Si Solar Cells. Springer Proceedings in Physics, 2019, , 361-366.	0.1	0
1283	Electronic Properties of Al-, Ga-, and In-Doped Armchair ZnO Nanoribbons. , 2019, , .		3
1284	Design and Optimization of Nano-Optical Couplers For Controlling Transmission Between Electrically Isolated Nanowires. , 2019, , .		0
1285	Computational Design and Analysis of Efficient Couplers for Nano-optical Links. , 2019, , .		0
1286	Characteristics of deoxyribonucleic acid. , 2019, , 31-41.		0
1287	Depletion-driven morphological transitions in hexagonal crystallites of virus rods. Soft Matter, 2019, 15, 9520-9527.	1.2	8
1288	Design and Analysis of Nano-Optical Networks Consisting of Nanowires and Optimized Couplers. , 2019, , .		0
1289	Intercalated Intermetallic Compounds AlTi ₃ and Fe ₂ Ti in Microrods and Microtubes Obtained by Invariant Reaction of Mechanically Milled System Al ₄₃ Ti ₃₆ Fe ₂₁ . Materials, 2019, 12, 3806.	1.3	5
1290	Mesoporous ZnO nanorods array with a controllable area density for enhanced photocatalytic properties. Journal of Colloid and Interface Science, 2019, 534, 389-398.	5.0	17
1291	Metal-inorganic-organic core-shell material as efficient matrices for CO ₂ adsorption: Synthesis, properties and kinetic studies. Journal of the Taiwan Institute of Chemical Engineers, 2019, 95, 452-465.	2.7	11
1292	Nanosheet and nanosphere morphology dominated photocatalytic & antibacterial properties of ZnO nanostructures. Solid State Sciences, 2019, 89, 1-14.	1.5	36
1293	Angle-dependent excitonic luminescence in semiconductor microtube cavity: The self-absorption effect. Journal of Luminescence, 2019, 208, 238-244.	1.5	4
1294	Flexible Li-doped ZnO piezotronic transistor array for in-plane strain mapping. Nano Energy, 2019, 55, 341-347.	8.2	29
1295	Lead Remediation Using Smart Materials. A Review. Zeitschrift Fur Physikalische Chemie, 2019, 233, 1377-1409.	1.4	39

#	ARTICLE	IF	CITATIONS
1296	A two-step synthesis of microsphere-decorated fibers based on NiO/ZnSnO ₃ composites towards superior ethanol sensitivity performance. <i>Journal of Alloys and Compounds</i> , 2019, 777, 73-83.	2.8	38
1297	Synthesis and characterization of self-assembled ZnO nanoarrays on hybrid structural fibers. <i>Surfaces and Interfaces</i> , 2019, 16, 188-193.	1.5	20
1298	Effects of temperature and frequency on capacitance and conductance characteristics of zinc-oxide based MIS-Structure. <i>Physica B: Condensed Matter</i> , 2020, 576, 411721.	1.3	6
1299	Bimodal size distribution of dewetted gold nanoparticles with regrown oxide bases. <i>Applied Surface Science</i> , 2020, 501, 144227.	3.1	6
1300	Fabrication of arrangement-controlled and vertically grown ZnO nanorods by metal nanotransfer printing. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 385-392.	2.9	7
1301	A simple model for the semicontinuous heterophase polymerization: Ethyl methacrylate as a case example. <i>Polymer Engineering and Science</i> , 2020, 60, 223-232.	1.5	0
1302	Synthesis of Ag Nanoparticle-Decorated ZnO Nanorods Adopting the Low-Temperature Hydrothermal Method. <i>Journal of Electronic Materials</i> , 2020, 49, 637-642.	1.0	8
1303	Hydrothermally Grown ZnO Nanorods as Promising Materials for Low Cost Electronic Skin. <i>ChemNanoMat</i> , 2020, 6, 15-31.	1.5	23
1304	Growth and morphology tuning of ordered nickel nanocones routed by one-step pulse electrodeposition. <i>Applied Surface Science</i> , 2020, 508, 145291.	3.1	18
1305	Plasmonic photothermal synthesis of ZnO microspheres on Au/SiO ₂ nanostructures. <i>Journal of Applied Physics</i> , 2020, 128, 133105.	1.1	3
1306	Investigating the structural, electronic, adsorption and optical properties of Te-doped g-ZnO monolayer before and after adsorbing HgO and HgCl ₂ , using DFT+ÅU, TDDFT and DFT-D2 approaches. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 262, 114710.	1.7	3
1307	Connecting Surface-Forces-Based Energy Barriers to Nonhomogeneous Colloidal Structures to Appear from Volatile Binary Mixtures of Same Size Nanoparticle Species. <i>Advanced Functional Materials</i> , 2020, 30, 2005486.	7.8	9
1308	A coral-like hematite photoanode on a macroporous SnO ₂ : Sb substrate for enhanced photoelectrochemical water oxidation. <i>Electrochimica Acta</i> , 2020, 360, 137012.	2.6	3
1309	ZnO thin film-nanowire array homo-structures with tunable photoluminescence and optical band gap. <i>RSC Advances</i> , 2020, 10, 25721-25729.	1.7	12
1310	An in-depth study of photocathodic protection of SS304 steel by electrodeposited layers of ZnO nanoparticles. <i>Surface and Coatings Technology</i> , 2020, 399, 126158.	2.2	7
1311	A comprehensive study on Cu-doped ZnO (CZO) interlayered MOS structure. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 13646-13656.	1.1	18
1312	Progress and perspective on polymer templating of multifunctional oxide nanostructures. <i>Journal of Applied Physics</i> , 2020, 128, 190903.	1.1	7
1313	Synthesis, characterization, morphology and adsorption performance towards Cu ⁺² ions of nano-sized homopolymers of o-aminophenol poly(o-AP). <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	1

#	ARTICLE	IF	CITATIONS
1314	Artificial Somatosensors: Feedback Receptors for Electronic Skins. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000094.	3.3	42
1315	Formation and Photoluminescence Properties of ZnO Nanoparticles on Electrospun Nanofibers Produced by Atomic Layer Deposition. <i>Coatings</i> , 2020, 10, 1199.	1.2	14
1316	Photogating-controlled ZnO photodetector response for visible to near-infrared light. <i>Nanotechnology</i> , 2020, 31, 335204.	1.3	11
1317	The nonlocal multi-directional vibration behaviors of buckled viscoelastic nanoribbons. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 3571-3583.	1.1	4
1318	Synthesis, characterization, morphology and adsorption performance towards Cu ²⁺ ions of nano-sized copolymers of anthranilic acid and o-aminophenol poly(anthranilic) Tj ETQqO O O rgBT /Overlock 10 Tf 50.577 Td (acid-co-o-a	0.5	0
1319	Piezo/Tribotronics Toward Smart Flexible Sensors. <i>Advanced Intelligent Systems</i> , 2020, 2, 1900175.	3.3	33
1320	Photopolymerized Films with ZnO and Doped ZnO Particles Used as Efficient Photocatalysts in Malachite Green Dye Decomposition. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1954.	1.3	15
1321	Alginate-based bionanocomposites. , 2020, , 173-205.		1
1322	pH dependent ZnO nanostructures synthesized by hydrothermal approach and surface sensitivity of their photoelectrochemical behavior. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	7
1323	Facile synthesis of ZnO microrod photodetectors by solid-state reaction. <i>Journal of Alloys and Compounds</i> , 2020, 825, 154110.	2.8	8
1324	Electroluminescence from amorphous GIZO/p-GaN heterojunction light-emitting diodes. <i>Materials Science in Semiconductor Processing</i> , 2020, 113, 105053.	1.9	1
1325	Large-area cavity-enhanced 3D chiral metamaterials based on the angle-dependent deposition technique. <i>Nanoscale</i> , 2020, 12, 9162-9170.	2.8	12
1326	Preferential Growth of ZnO Micro- and Nanostructure Assemblies on Fs-Laser-Induced Periodic Structures. <i>Nanomaterials</i> , 2020, 10, 731.	1.9	4
1327	Direct conjugation with a zero length linker of fullerene C ₇₀ to ZnO quantum dots for multicolor light-emitting diodes. <i>Materials Horizons</i> , 2020, 7, 1533-1541.	6.4	2
1328	Recent progress in periodic patterning fabricated by self-assembly of colloidal spheres for optical applications. <i>Science China Materials</i> , 2020, 63, 1418-1437.	3.5	16
1329	Enhanced Optical Output of Near-Ultraviolet Light-Emitting Diodes by a Monolayer of Nanospheres. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-7.	1.5	0
1330	Tailoring zinc oxide nanowire architectures collectively by catalytic vapor-liquid-solid growth, catalyst-free vapor-solid growth, and low-temperature hydrothermal growth. <i>Ceramics International</i> , 2021, 47, 2131-2143.	2.3	18
1331	Vibrations of double-nanorod-systems with defects using nonlocal-integral-surface energy-based formulations. <i>Composite Structures</i> , 2021, 256, 113028.	3.1	30

#	ARTICLE	IF	CITATIONS
1332	Recent advances and perspective on heterogeneous catalysis using metals and oxide nanocrystals. <i>Materials Chemistry Frontiers</i> , 2021, 5, 151-222.	3.2	18
1333	Polymer and lipid-based nanoparticles to deliver RNAi and CRISPR systems. , 2021, , 635-659.		0
1334	An investigation of secondary electron emission from ZnO based nanomaterials for future applications in radiation detectors. <i>Scientific Reports</i> , 2021, 11, 737.	1.6	3
1335	Mosaic structure ZnO formed by secondary crystallization with enhanced photocatalytic performance. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 495-502.	2.4	7
1336	Lithography Technology for Micro- and Nanofabrication. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1309, 217-233.	0.8	5
1337	Anionic/nonionic surfactants for controlled synthesis of highly concentrated sub-50 nm polystyrene spheres. <i>Nanoscale Advances</i> , 2021, 3, 5626-5635.	2.2	6
1338	Mechanical Energy Harvesting Using Wurtzite Nanowires. , 2021, , 437-457.		0
1339	Investigations on the Growth Mechanism of Nanostructured ZnO: Shedding Light on the Effect of Al ³⁺ Doping. <i>Surface Engineering and Applied Electrochemistry</i> , 2021, 57, 1-9.	0.3	3
1340	Tailored growth of high-quality CsPbI ₃ nanobelts. <i>Journal of the American Ceramic Society</i> , 2021, 104, 2358-2365.	1.9	1
1341	Self-assembly nuclei with a preferred orientation at the extended hydrophobic surface toward textured growth of ZnO nanorods in aqueous chemical bath deposition. <i>Nanotechnology</i> , 2021, 32, 175603.	1.3	2
1342	One-step hydrothermal synthesis of ZnO nanorods as efficient oxygen evolution reaction catalyst. <i>Inorganic and Nano-Metal Chemistry</i> , 2022, 52, 101-107.	0.9	1
1343	C-axis oriented ZnO nanorods based quantum dot solar cells. <i>Optical Materials</i> , 2021, 112, 110774.	1.7	13
1344	Morphological and Optical Studies of ZnO-Silica Nanocomposite Thin Films Synthesized by Time Dependent CBD. <i>Journal of Electronic Materials</i> , 2021, 50, 3462-3470.	1.0	15
1345	Growth of ZnO Nanorods on ITO Film for Piezoelectric Nanogenerators. <i>Materials</i> , 2021, 14, 1461.	1.3	4
1346	Novel microrecycled ZnO nanoparticles decorated macroporous 3D graphene hybrid aerogel for efficient detection of NO ₂ at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021, 330, 129278.	4.0	33
1347	Flexible ultraviolet detector with robust ZnO nanoparticle nanoassemblies on catechol-functionalized polysiloxane nanofilms. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50947.	1.3	2
1348	A review of geometric and structural design for reliable flexible electronics. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 074001.	1.5	8
1349	Fabrication of zinc oxide nano-structures in RF inductively-coupled thermal plasma and their photoluminescence effects. <i>Current Applied Physics</i> , 2021, 25, 18-23.	1.1	8

#	ARTICLE	IF	CITATIONS
1350	Catalyst free growth of ZnO thin film nanostructures on Si substrate by thermal evaporation. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	5
1351	Microrecycled zinc oxide nanoparticles (ZnO NP) recovered from spent Zn-C batteries for VOC detection using ZnO sensor. Analytica Chimica Acta, 2021, 1165, 338563.	2.6	16
1352	Combining triboelectric nanogenerator with piezoelectric effect for optimizing Schottky barrier height modulation. Science Bulletin, 2021, 66, 1409-1418.	4.3	9
1353	Generation of 2D-arrays of anisotropically shaped nanoparticles by nanosecond laser-induced periodic surface patterning. Applied Surface Science, 2021, 556, 149803.	3.1	14
1354	Fast processing of CrO ₄ -ZnO nanocomposite material under UV and Solar-Light irradiation and DSSCs application. Materials Today: Proceedings, 2021, 48, 545-545.	0.9	0
1355	A platinum-doped ZnO-based LPG sensor with high sensitivity. Materials Today: Proceedings, 2021, 48, 1201-1201.	0.9	0
1356	Structural characterization, dielectric properties and electrical conductivity of ZnO nanoparticles synthesized by co-precipitation route. Physica B: Condensed Matter, 2021, 616, 413130.	1.3	20
1357	Gamma-ray induced thermoluminescence emission of green synthesized zinc oxide nanophosphors. Journal of the Indian Chemical Society, 2021, 98, 100153.	1.3	0
1358	NO ₂ sensing properties of 3D flower-like ZnO nanostructure decorated with thin porous petals synthesized using a simple sol-gel drop-casting method. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	20
1359	Impact of Nanomaterials Stress on Plants. , 2021, , 499-526.		1
1360	Piezoelectric Response in the Contact Deformation of Piezoelectric Materials. , 2008, , 151-173.		1
1361	Nanoparticles and Plant Interaction with Respect to Stress Response. Nanotechnology in the Life Sciences, 2020, , 1-15.	0.4	13
1362	Characteristics of Transition Metal Oxides. Springer Series in Materials Science, 2020, , 91-123.	0.4	32
1364	3D Geometries: Enabling Optimization Toward the Inherent Limits of Thin-Film Photovoltaics. Springer Series in Materials Science, 2016, , 1-24.	0.4	4
1365	ZnO and GaN Nanostructures and their Applications. Advances in Materials Research, 2009, , 459-505.	0.2	1
1366	Metal Oxide Nanocrystals and Their Properties for Application in Solar Cells. , 2014, , 671-707.		1
1367	Introduction of Piezotronics and Piezo-Phototronics. Microtechnology and MEMS, 2012, , 1-17.	0.2	3
1368	Waste Mechanical Energy Harvesting (II): Nanopiezoelectric Effect. Lecture Notes in Energy, 2014, , 135-262.	0.2	5

#	ARTICLE	IF	CITATIONS
1369	Self-assembled epitaxial silicon nanowires grown along easy-glide directions on Si(001). <i>Micro and Nano Letters</i> , 2006, 1, 25.	0.6	5
1370	Electrical characteristics and density of states of thin-film transistors based on sol-gel derived ZnO channel layers with different annealing temperatures. <i>Journal of Applied Physics</i> , 2018, 123, 161503.	1.1	7
1371	Advances in mechanical characterization of 1D and 2D nanomaterials: progress and prospects. <i>Nano Express</i> , 2020, 1, 022001.	1.2	14
1372	Enhanced photovoltaic conversion of ZnO/PANI/NiOx heterostructure devices with ZnO nanorod array. <i>Nano Express</i> , 2020, 1, 030016.	1.2	3
1373	Electrical-current-induced magnetic hysteresis in self-assembled vertically aligned La ₂ /3Sr ₁ /3MnO ₃ :ZnO nanopillar composites. <i>Physical Review Materials</i> , 2018, 2, .	0.9	2
1374	Catalyst-Free Growth of Vertically Aligned ZnO Nanostructures Arrays on Periodically Polarity-Inverted Substrate. <i>Applied Physics Express</i> , 2010, 3, 105001.	1.1	8
1375	Study on ultra-high sensitivity piezoelectric effect of GaN micro/nano columns. <i>Nano Convergence</i> , 2019, 6, 33.	6.3	7
1376	Transition Metals Ni ²⁺ , Fe ³⁺ Incorporated Modified ZnO Thick Film Sensors to Monitor the Environmental and Industrial Pollutant Gases. <i>Oriental Journal of Chemistry</i> , 2020, 36, 1049-1065.	0.1	11
1378	Seedless Hydrothermal Growth of ZnO Nanorods as a Promising Route for Flexible Tactile Sensors. <i>Nanomaterials</i> , 2020, 10, 977.	1.9	13
1379	Photoluminescence and Characterization of ZnO/Zn ₂ /SnO ₄ Nanocables. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2011, 26, 597-601.	0.6	2
1380	Controlled Growth of Zinc Oxide Nano Structures by Electrochemical Synthesis and Their Photoluminescence Properties. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2011, 26, 602-606.	0.6	2
1381	Preparation of Reduced Symmetrical SiO ₂ /Ag Core-Shell Nanoparticles and Their Surface-enhanced Raman Scattering Activities. <i>Chinese Journal of Analytical Chemistry</i> , 2010, 38, 611-616.	0.9	2
1382	Parametric Characterization of Zinc Oxide Nanostructures Forming Three-Dimensional Hybrid Nanoarchitectures on Carbon Nanotube Constructs. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , 2015, 39, 541-548.	0.0	1
1383	Effect of growth time and annealing on the structural defect concentration of hydrothermally grown ZnO nanowires. <i>AIMS Materials Science</i> , 2016, 3, 562-572.	0.7	13
1384	Structural and optical properties correlated with the morphology of gold nanoparticles embedded in synthetic sapphire: A microscopy study. <i>Journal of Microscopy and Ultrastructure</i> , 2018, 6, 72.	0.1	2
1385	ZnO Planar-Tetrapod Synthesized by Cethyltrimethylammonium Hydroxide-Assisted Hydrothermal Method at Low Temperature. <i>World Journal of Condensed Matter Physics</i> , 2015, 05, 339-345.	1.1	1
1386	ZnO Nanostructures Synthesized by Vapor Transport and Liquid Phase Synthesis Techniques: Growth and Properties. <i>Science Reviews - From the End of the World</i> , 2020, 1, 6-23.	0.2	2
1387	On-chip fabrication of lateral growth ZnO nanowire array UV sensor. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2016, 65, 118104.	0.2	6

#	ARTICLE	IF	CITATIONS
1388	Assessment of the dose-dependent biochemical and cytotoxicity of zein-coated MgO nanowires in male and female albino rats. <i>Annals of Medicine</i> , 2021, 53, 1850-1862.	1.5	6
1389	Thin Film Gas Sensors Based on Planetary Ball-Milled Zinc Oxide Nanoinks: Effect of Milling Parameters on Sensing Performance. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9676.	1.3	5
1390	Nanobelts and Nanowires of Functional Oxides. , 2005, , .		0
1391	Field Emission from Selectively-patterned ZnO Nanorods Synthesized by Solution Chemistry Route. <i>Korean Journal of Materials Research</i> , 2006, 16, 408-411.	0.1	1
1393	Environmental Photo(electro)catalysis: Fundamental Principles and Applied Catalysts. , 2010, , 371-442.		2
1394	Zinc oxide nanocomposites with antitumor activity. <i>Natural Science</i> , 2010, 02, 1341-1348.	0.2	10
1398	Electrochemical Growth of Nanostructured Materials. , 2011, , 89-115.		0
1399	2 Noble Metal Nanoparticles. , 2012, , 99-112.		0
1400	Nanocolumnar Arrays by Pulsed Laser Deposition on Polystyrene Colloid Spheres. , 2012, , 145-166.		0
1401	7.2.8 Quantum wires and nano rods based on ZnO and its alloys. , 2013, , 284-298.		0
1402	CHAPTER 3. Micro/nano Fabrication Technologies for Vibration-Based Energy Harvester. <i>RSC Nanoscience and Nanotechnology</i> , 2014, , 62-100.	0.2	0
1404	Effects of Precursor Concentration and Current on Properties of ZnO Nanorod Grown by Electrodeposition Method. <i>Journal of the Korean Institute of Surface Engineering</i> , 2014, 47, 198-203.	0.1	0
1405	Effects of Growth Temperature and Time on Properties of ZnO Nanostructures Grown by Electrodeposition Method. <i>Journal of the Korean Institute of Surface Engineering</i> , 2014, 47, 204-209.	0.1	0
1406	Properties of SH-SAWs in Layered Piezomagnetic/Piezoelectric Structures Covered in a Microbeam Array. , 0, , .		0
1407	Tuning the photoluminescence, magnetism and cytotoxicity of ZnO by tailoring the nanostructures. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015, 64, 097702.	0.2	0
1408	Bottom-Up Growth of One-Dimensional Semiconductor Nanocrystals by Laser Ablation. <i>The Review of Laser Engineering</i> , 2015, 43, 762.	0.0	0
1409	Photoconductive UV detector based on high-resistance ZnO thin film. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015, 64, 198501.	0.2	2
1410	Facile and Surfactant-Free Synthesis of Hierarchical ZnO Microstructures. <i>MaÇSallatî ÇSÄmiÊjatî Al-Sulá¹Än QÄbÄks, Li-l-buá¥Ä«á¹ Al-Êjilmiiyyatî Al-ÊjulÄ«m Wa-al-handasatî</i> , 2017, 19, 17.	0.1	0

#	ARTICLE	IF	CITATIONS
1411	Electrically Pumped Whispering Gallery Mode Lasing from Au/ZnO Microwire Schottky Junction. , 2016, , .		0
1412	Controlled Drug Delivery: Smart and Natural Polymer Systems. , 0, , 2147-2154.		0
1413	Controlled Synthesis and Understanding of Growth Mechanism Parameters for Atmospheric Pressure Hydrothermal Synthesis of Ultrathin Secondary ZnO Nanowires. Journal of Scientific Research and Reports, 2016, 9, 1-10.	0.2	1
1414	Seeded Mediated Growth for Binary Chalcogenide Heteronanostructures. Springer Theses, 2018, , 23-51.	0.0	0
1415	Interfacing Biology Systems with Nanoelectronics for Nanodevices. Advanced Structured Materials, 2019, , 701-759.	0.3	2
1416	Facile chemical strategy to synthesize Ag@polypyrrole microarrays and investigating its anisotropic effect on polymer conductivity. Materials Science-Poland, 2019, 37, 563-569.	0.4	0
1417	Effect of Al Doping on the Properties of ZnO Nanorods Synthesized by Hydrothermal Growth for Gas Sensor Applications. Korean Journal of Materials Research, 2020, 30, 399-405.	0.1	1
1418	Scanning offset-emission hyperspectral microscopy (SOHM) of waveguiding in single ZnO nanorod. , 2020, , .		0
1419	Band Gap Engineering of ZnO Nanocrystallites Prepared via Ball-Milling. Journal of Polytechnic, 2022, 25, 89-94.	0.4	3
1420	Energy-Efficient Carbon Nanotube Field-Effect Phototransistors: Quantum Simulation, Device Physics, and Photosensitivity Analysis. IEEE Sensors Journal, 2022, 22, 288-296.	2.4	8
1421	Recent Advances in Plant Nanoscience. Advanced Science, 2022, 9, e2103414.	5.6	45
1422	A High-Performance Broadband Photodetector with p-SnS/n-ZnS Heterojunction Nanowires as Active Layer and Novel Nanoparticle-Anchored Silver Nanowires as Efficient Plasmonic Electrodes. SSRN Electronic Journal, 0, , .	0.4	0
1423	Solution box: SOLBOX-08. URSI Radio Science Bulletin, 2017, 2017, 97-101.	0.2	0
1425	Design strategies of ZnO heterojunction arrays towards effective photovoltaic applications. , 2022, 1, .		29
1426	Effect of calcination temperature on the morphology and catalytic properties of ZnO nanostructures fabricated from a chiral precursor for photodegradation of both cationic and anionic dyes. New Journal of Chemistry, 2022, 46, 3645-3657.	1.4	7
1427	A high-performance broadband photodetector with p-SnS/n-ZnS heterojunction nanowires as active layer and novel nanoparticle-anchored silver nanowires as efficient plasmonic electrodes. Journal of Materials Science: Materials in Electronics, 2022, 33, 5380-5395.	1.1	3
1428	An Easily-Processable Cu ₂ O/Si Self-Powered Photodetector Array for Image Sensing Applications. SSRN Electronic Journal, 0, , .	0.4	0
1429	Solution-Driven Imprinting Lithography of Sol-Gel ZnO Thin Films for Liquid Crystal Display. Langmuir, 2022, 38, 2561-2568.	1.6	3

#	ARTICLE	IF	CITATIONS
1430	Fabrication and Application of Different Nanostructured ZnO in Ultraviolet Photodetectors: A Review. <i>IEEE Sensors Journal</i> , 2022, 22, 7451-7462.	2.4	12
1431	Easily Processable Cu ₂ O/Si Self-Powered Photodetector Array for Image Sensing Applications. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1335-1342.	2.0	10
1432	Ultra-Sensitive Ga ₂ O ₃ Solar-Blind Photodetector with High-Density Al@Al ₂ O ₃ Core-Shell Nanoplasmonic Array. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	18
1433	Physicochemically constructed zinc oxide and UV-curable polymer hybrid films for liquid crystal system. <i>Journal of Molecular Liquids</i> , 2022, 357, 119155.	2.3	0
1435	Laser-Driven One- and Two-Dimensional Subwavelength Periodic Patterning of Thin Films Made of a Metal-Organic MoS ₂ Precursor. <i>ACS Nano</i> , 2022, 16, 10412-10421.	7.3	7
1436	Inexpensive and highly controlled growth of zinc oxide nanowire: Impacts of substrate temperature and growth time on synthesis and physical properties. <i>Current Applied Physics</i> , 2022, 41, 32-40.	1.1	2
1437	Engineering polarization surface of hierarchical ZnO microspheres via spray-annealing strategy for wide-frequency electromagnetic wave absorption. <i>Journal of Materials Science and Technology</i> , 2022, 131, 231-239.	5.6	26
1439	Electrospun carbon nanofibre-assisted patterning of metal oxide nanostructures. <i>Microsystems and Nanoengineering</i> , 2022, 8, .	3.4	4
1441	Investigation on laser induced fano resonance of hydrothermally synthesized Ag doped ZnO hierarchical nanoporous structure and its UV photodetector properties. <i>Optical Materials</i> , 2022, 133, 112873.	1.7	2
1442	Self-passivated edges of ZnO nanoribbons: a global search. <i>Nanoscale</i> , 2022, 14, 15468-15474.	2.8	1
1444	PL study of Mn-doped ZnO nanowires. , 0, , 47-52.		0
1445	Fabrication and morphological, optical, and electrical characterisation of Cu-doped ZnO nanorod/coronene nanowire hybrid heterojunctions. <i>Physica Scripta</i> , 2022, 97, 125818.	1.2	5
1446	Scaffold assisted synthesized metallic and semiconductor nanowires for electrochemical biosensing applications. , 2023, , 217-238.		0
1447	Efficient Planar Perovskite Solar Cells with ZnO Electron Transport Layer. <i>Coatings</i> , 2022, 12, 1981.	1.2	8
1448	CVD Growth of a Horizontally Aligned One-Dimensional Van der Waals Material, Nb ₂ Se ₉ . <i>Crystal Growth and Design</i> , 2023, 23, 946-953.	1.4	2
1449	Using Logistic Regression Approach to Predicating Breast Cancer DATASET. <i>Studies in Computational Intelligence</i> , 2023, , 581-591.	0.7	1
1450	Growth and Luminescent Properties of the Regular Structure of ZnO Microcrystals on Si Substrates with Whiskers. <i>Crystallography Reports</i> , 2022, 67, 931-936.	0.1	3
1451	On the modeling of wave propagation in the multi-curved inhomogeneous system under in-plane load via a non-model-based mechanism and fully connected deep neural networks. <i>Waves in Random and Complex Media</i> , 0, , 1-28.	1.6	0

#	ARTICLE	IF	CITATIONS
1452	Laser-driven self-organized evolution of 1D- and 2D-Nanostructures from metal thin-films on silicon: Influence of alloying and oxidation. Applied Surface Science, 2023, 622, 156927.	3.1	4
1453	NS-ZnO@Pâ€“Zn nanocomposites catalysts with superior photodegradation of methyl orange through in-situ oxidation and pH-mediated dealloying of equiatomic Al50Zn50 precursors. Materials Chemistry and Physics, 2023, 302, 127777.	2.0	0
1454	Influence of manganese addition in ZnO-based piezoelectric nanogenerator for mechanical energy harvesting. Journal of Materials Science: Materials in Electronics, 2023, 34, .	1.1	2
1455	Synthesis of Zinc Oxide Nanostructure via Electro-deposition Technique for Gas sensing Switching Applications. Oriental Journal of Chemistry, 2023, 39, 136-143.	0.1	1
1464	Absorbance and Emission Studies of ZnO Nanostructures. Lecture Notes in Electrical Engineering, 2023, , 679-685.	0.3	0
1465	Visualization of Latent Fingerprint Using Conjugated Polymer Nanoparticles. Materials Horizons, 2023, , 157-168.	0.3	0
1469	Optical and Electrical Switching of Thermochromic Metal Oxide Nanostructures. Progress in Optical Science and Photonics, 2023, , 35-70.	0.3	0
1473	Langmuir filmsâ€”a universal method for fabricating organized monolayers from nanomaterials. , 2024, , 255-279.		0