

# Ming Zhang

## List of Publications by Year in descending order

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121  
papers

3,846  
citations

117625

34  
h-index

138484

58  
g-index

121  
all docs

121  
docs citations

121  
times ranked

4138  
citing authors

#	ARTICLE	IF	CITATIONS
1	Manufacturing and characterizing of CCTO/SEBS dielectric elastomer as capacitive strain sensors. <i>Rare Metals</i> , 2023, 42, 2344-2349.	7.1	3
2	Insight into the role of free volume in irradiation resistance to discoloration of lead-containing plexiglass. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51545.	2.6	4
3	Novel cerium-based MOFs photocatalyst for photocarrier collaborative performance under visible light. <i>Journal of Catalysis</i> , 2022, 405, 74-83.	6.2	27
4	Preparation of flexible rubber composites with high contents of tungsten powders for gamma radiation shielding. <i>Rare Metals</i> , 2022, 41, 2243-2248.	7.1	4
5	Nitrogen and sulfur co-doped CeO <sub>2</sub> nanorods for efficient photocatalytic VOCs degradation. <i>Catalysis Science and Technology</i> , 2022, 12, 5203-5209.	4.1	9
6	Self-polymerization and co-polymerization kinetics of lead methacrylate. <i>Rare Metals</i> , 2021, 40, 736-742.	7.1	5
7	Design and properties of calcium copper titanate/poly(dimethyl siloxane) dielectric elastomer composites. <i>Rare Metals</i> , 2021, 40, 2627-2632.	7.1	8
8	Facile fabrication of PS-CHO@CeO <sub>2</sub> core-shell composite microspheres via <i>in-situ</i> chemical deposition and their photocatalytic application on oxidative degradation of MO. <i>Functional Materials Letters</i> , 2021, 14, 2151006.	1.2	0
9	Microstructure and properties of cerium oxide/polyurethane elastomer composites. <i>Rare Metals</i> , 2021, 40, 3685-3693.	7.1	9
10	Tunable microwave absorbing properties based on facile microwave-induced in-situ formation of interfacial structures. <i>Applied Surface Science</i> , 2021, 545, 149079.	6.1	25
11	Boosting visible-light-driven photocatalytic performance of waxberry-like CeO <sub>2</sub> by samarium doping and silver QDs anchoring. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119845.	20.2	51
12	Study on testing methods for water resistance of underwater cement paste. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021, 54, 1.	3.1	4
13	Carboxylation-induced polyaniline morphology on surfaces of barium hexaferrite nano particles with enhanced microwave absorbing properties. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160839.	5.5	6
14	Gadolinium- and lead-containing functional terpolymers for low energy X-ray protection. <i>Nuclear Engineering and Technology</i> , 2021, 53, 4130-4136.	2.3	7
15	Probing the effect of straight chain fatty acids on the properties of lead-containing plexiglass. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 1628-1634.	3.7	4
16	Effect of electron beam irradiation on the properties of EVA/EPDM blends. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2020, 36, 161-172.	1.8	9
17	Tunable stress transfer efficiency of polyurethane to spiropyran by multi-functionalization and its effects on mechanochromic response. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49272.	2.6	6
18	Design and Synthesis of Sm, Y, La and Nd-doped CeO <sub>2</sub> with a broom-like hierarchical structure: a photocatalyst with enhanced oxidation performance. <i>ChemCatChem</i> , 2020, 12, 2638-2646.	3.7	51

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19	Electrospun and in situ self-polymerization of polyacrylonitrile containing gadolinium nanofibers for thermal neutron protection. <i>Rare Metals</i> , 2019, 38, 252-258.	7.1	8
20	Preparation of inverse opal titanium dioxide for photocatalytic performance research. <i>Optical Materials</i> , 2019, 96, 109287.	3.6	22
21	Microwave-Assisted Synthesis of Yttrium Iron Garnet Nano Powders for Low Temperature Sintering. <i>Journal of Electronic Materials</i> , 2019, 48, 6661-6665.	2.2	3
22	A feasible vibration measurement and active control method of reinforced concrete lightweight pier railway bridges for heavy-haul monorail trains. <i>European Journal of Environmental and Civil Engineering</i> , 2019, , 1-19.	2.1	2
23	Synthesis of Y-doped CeO <sub>2</sub> /PCN nanocomposited photocatalyst with promoted photoredox performance. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 513-521.	20.2	88
24	Synthesis of anatase TiO <sub>2</sub> with exposed {001} and {101} facets and photocatalytic activity. <i>Rare Metals</i> , 2019, 38, 287-291.	7.1	24
25	Improvement of photocatalytic activity of high specific surface area graphitic carbon nitride by loading a co-catalyst. <i>Rare Metals</i> , 2019, 38, 468-474.	7.1	28
26	Preparation and properties of core-shell structured calcium copper titanate@polyaniline/silicone dielectric elastomer actuators. <i>Polymer Composites</i> , 2019, 40, E62.	4.6	21
27	Preparation and Characterizing of PANI/PDMS Elastomer for Artificial Muscles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 301, 012165.	0.6	3
28	A facile approach to build Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /PCN nanohybrid photocatalysts for gaseous acetaldehyde efficient removal. <i>Catalysis Today</i> , 2018, 315, 184-193.	4.4	32
29	Sol-gel auto-combustion synthesis and properties of Co <sub>2</sub> Z-type hexagonal ferrite ultrafine powders. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 454, 1-5.	2.3	10
30	High dielectric and actuated properties of silicone dielectric elastomers filled with magnesium-doped calcium copper titanate particles. <i>Polymer Composites</i> , 2018, 39, 691-697.	4.6	26
31	Microwave-accelerated rapid synthesis of high-quality yttrium iron garnet nano powders with improved magnetic properties. <i>Materials Research Letters</i> , 2018, 6, 36-40.	8.7	16
32	Development of the Visible-Light Response of CeO <sub>2</sub> with a high Ce <sup>3+</sup> Content and Its Photocatalytic Properties. <i>ChemCatChem</i> , 2018, 10, 1267-1271.	3.7	37
33	Self-polymerization and co-polymerization kinetics of gadolinium methacrylate. <i>Journal of Rare Earths</i> , 2018, 36, 298-303.	4.8	7
34	Increasing the breakdown strength of dielectric actuators by using Cu/Cu <sub>x</sub> O/silicone dielectric elastomers. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12175-12179.	5.5	19
35	Effect of a Healing Agent on the Curing Reaction Kinetics and Its Mechanism in a Self-Healing System. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2241.	2.5	18
36	Microstructure and properties of honeycomb composite films containing Eu and Sn. <i>Rare Metals</i> , 2018, , 1.	7.1	2

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37	Effects of the Atmosphere in a Hydrothermal Process on the Morphology and Photocatalytic Activity of Cerium Oxide. <i>ChemCatChem</i> , 2018, 10, 4269-4273.	3.7	9
38	Synthesis and properties of strontium hexa-ferrite ultrafine powders via a CTAB-assisted co-precipitation method. <i>Rare Metals</i> , 2017, 36, 666-670.	7.1	5
39	Synthesis and microwave absorbing properties of La-doped Sr-hexaferrite nanopowders via sol-gel auto-combustion method. <i>Rare Metals</i> , 2017, 36, 704-710.	7.1	22
40	Highly sensitive microcantilever-based immunosensor for the detection of carbofuran in soil and vegetable samples. <i>Food Chemistry</i> , 2017, 229, 432-438.	8.2	23
41	Active sulfate-rich belite sulfoaluminate cement. <i>Advances in Cement Research</i> , 2017, 29, 166-173.	1.6	7
42	Preparation and electrodeformation of silicone dielectric elastomers containing poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54-45329.	2.6	4
43	A new precursor to synthesize g-C <sub>3</sub> N <sub>4</sub> with superior visible light absorption for photocatalytic application. <i>Catalysis Science and Technology</i> , 2017, 7, 1826-1830.	4.1	35
44	Improving g-C <sub>3</sub> N <sub>4</sub> photocatalytic performance by hybridizing with Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> nanosheets. <i>Catalysis Today</i> , 2017, 284, 27-36.	4.4	54
45	Synthesis and photocatalytic performance of yttrium-doped CeO <sub>2</sub> with a hollow sphere structure. <i>Catalysis Today</i> , 2017, 281, 135-143.	4.4	52
46	Experimental Study on the Seismic Behaviour of Mortise-Tenon Joints of the Ancient Timbers. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2017, 27, 512-519.	0.8	22
47	Influence of $\beta$ -cyclodextrin on morphologies and chemical, thermal, and mechanical properties of non-chain extended polyurethane elastomers. <i>Journal of Polymer Research</i> , 2016, 23, 1.	2.4	9
48	Fabrication of magnetic rubber composites by recycling waste rubber powders via a microwave-assisted in situ surface modification and semi-devulcanization process. <i>Chemical Engineering Journal</i> , 2016, 295, 73-79.	12.7	31
49	Investigation and calculation of filling factor of SnO <sub>2</sub> inverse opal. <i>Materials Research Express</i> , 2016, 3, 045014.	1.6	4
50	Design and Preparation of Polymer Resin-Supported Proline Catalyst with Industrial Application Potential. <i>ChemistrySelect</i> , 2016, 1, 1933-1937.	1.5	7
51	Selective assembly of silver nanoparticles on honeycomb films and their surface-enhanced Raman scattering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 782-788.	4.7	17
52	Preparation of $\beta$ -conjugated truxene/silicone dielectric elastomers with large actuated strain at low electric field. <i>Materials Letters</i> , 2016, 169, 157-159.	2.6	2
53	Synthesis and photocatalytic performance of yttrium-doped CeO <sub>2</sub> with a porous broom-like hierarchical structure. <i>Applied Catalysis B: Environmental</i> , 2016, 183, 361-370.	20.2	57
54	Property reinforcement of silicone dielectric elastomers filled with self-prepared calcium copper titanate particles. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	12

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55	Preparation of inverse opal cerium dioxide for optical properties research. <i>Materials Letters</i> , 2015, 158, 123-127.	2.6	10
56	Simplified preparation of SnO <sub>2</sub> inverse opal for Methanol gas sensing performance. <i>Microporous and Mesoporous Materials</i> , 2015, 208, 93-97.	4.4	43
57	Property reinforcement of acrylonitrile-butadiene-styrene by simultaneous incorporation of carbon nanotubes and self-prepared copper particles. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	1
58	Concentration-driven phase control for low temperature synthesis of phase-pure anatase and rutile titanium oxide. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 280-286.	9.4	2
59	Low temperature fabrication & photocatalytic activity of carbon fiber-supported TiO <sub>2</sub> with different phase compositions. <i>Journal of Hazardous Materials</i> , 2015, 290, 134-141.	12.4	14
60	Preparation and optical properties of tin dioxide inverse opal film. <i>Rare Metals</i> , 2015, , 1.	7.1	3
61	Organoselenium-Catalyzed Baeyer-Villiger Oxidation of $\alpha,\beta$ -Unsaturated Ketones by Hydrogen Peroxide to Access Vinyl Esters. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 955-960.	4.3	75
62	An ultraviolet/biological (UV/B) reactor for the removal of nitrogenous compounds from the secondary effluent of wastewater treatment plants (WWTPs). <i>RSC Advances</i> , 2015, 5, 32239-32244.	3.6	1
63	Synthesis and Properties of Single Domain Strontium Hexa-ferrite Ultrafine Powders via a Surfactant-Assisted Co-precipitation Method. <i>Journal of Electronic Materials</i> , 2015, 44, 2276-2282.	2.2	5
64	Microwave absorbing properties of barium hexa-ferrite/polyaniline core-shell nano-composites with controlled shell thickness. <i>Materials Chemistry and Physics</i> , 2015, 163, 470-477.	4.0	56
65	Mechanical properties and creep behavior of poly(trimethylene terephthalate)/mesoporous silica composites. <i>Polymer Composites</i> , 2015, 36, 1386-1393.	4.6	4
66	Morphology control and characterization of broom-like porous CeO <sub>2</sub> . <i>Chemical Engineering Journal</i> , 2015, 260, 126-132.	12.7	91
67	Synthesis and properties of single domain sphere-shaped barium hexa-ferrite nano powders via an ultrasonic-assisted co-precipitation route. <i>Ultrasonics Sonochemistry</i> , 2015, 23, 46-52.	8.2	39
68	Morphology control and photocatalytic characterization of yttrium-doped hedgehog-like CeO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2015, 164, 120-127.	20.2	39
69	Preparation of luminescent polystyrene microspheres via surface-modified route with rare earth (Eu <sup>3+</sup> and Tb <sup>3+</sup> ) complexes linked to 2,2'-bipyridine. <i>Rare Metals</i> , 2015, 34, 590-594.	7.1	16
70	Morphological control of porous ethylene-vinyl acetate copolymer membrane obtained from a co-continuous ethylene-vinyl acetate copolymer/poly( $\epsilon$ -caprolactone) blend. <i>Polymer International</i> , 2014, 63, 470-478.	3.1	5
71	Fabrication and characterization of sesame ball-like CeO <sub>2</sub> :Y <sub>3</sub> +P(St-AA) composite microspheres based on electrostatic interaction. <i>Materials Letters</i> , 2014, 121, 109-112.	2.6	3
72	Porous cerium dioxide hollow spheres and their photocatalytic performance. <i>RSC Advances</i> , 2014, 4, 62255-62261.	3.6	39

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73	Green Poly( $\mu$ -caprolactone) Composites Reinforced with Electrospun Poly(lactide)/Poly( $\mu$ -caprolactone) Blend Fiber Mats. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 2102-2110.	6.7	46
74	Crystallization behavior of poly(trimethylene terephthalate)/mesoporous silica SBA-15 composites prepared by in situ polymerization. <i>Thermochimica Acta</i> , 2013, 565, 72-81.	2.7	11
75	Fabrication of Large-area 3-D Ordered Silver-coated Colloidal Crystals and Macroporous Silver Films Using Polystyrene Templates. <i>Nano-Micro Letters</i> , 2013, 5, 182-190.	27.0	11
76	Dual-wavelength dual-indicator catalytic kinetic spectrophotometry for determination of trace Ru(III). <i>Rare Metals</i> , 2013, 32, 605-608.	7.1	1
77	Facile Synthesis of Mono-Dispersed Polystyrene (PS)/Ag Composite Microspheres via Modified Chemical Reduction. <i>Materials</i> , 2013, 6, 5625-5638.	2.9	33
78	Facile preparation and characterization of luminescent polystyrene composite microspheres. <i>New Journal of Chemistry</i> , 2013, 37, 2133.	2.8	0
79	Rheological and electrical properties of carbon black-based poly(vinylidene fluoride) composites. <i>Polymer Engineering and Science</i> , 2013, 53, 2541-2548.	3.1	11
80	Fabrication of Large-area 3-D Ordered Silver-coated Colloidal Crystals and Macroporous Silver Films Using Polystyrene Templates. <i>Nano-Micro Letters</i> , 2013, 5, 182.	27.0	1
81	Interfacial Properties, Viscoelasticity, and Thermal Behaviors of Poly(butylene succinate)/Poly(lactide) Blend. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 2290-2298.	3.7	136
82	Fabrication of Poly(lactide)/Poly( $\mu$ -caprolactone) Blend Fibers by Electrospinning: Morphology and Orientation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 3682-3691.	3.7	63
83	Preparation and optical properties of transparent epoxy composites containing ZnO nanoparticles. <i>Journal of Applied Polymer Science</i> , 2012, 126, 734-739.	2.6	6
84	<i>In situ</i> synthesis and characterization of ZnS/epoxy nanocomposites via gas-liquid state reaction method. <i>Journal of Applied Polymer Science</i> , 2012, 124, 1426-1430.	2.6	5
85	Electrospinning of poly(lactide) and its composites with carbon nanotubes. <i>Polymer Composites</i> , 2011, 32, 1280-1288.	4.6	46
86	Banded spherulites of electrospun poly(trimethylene terephthalate)/carbon nanotube composite mats. <i>Polymer International</i> , 2011, 60, 1497-1503.	3.1	20
87	Selective Localization of Nanofillers: Effect on Morphology and Crystallization of PLA/PCL Blends. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 613-626.	2.2	218
88	Selective Localization Behavior of Carbon Nanotubes: Effect on Transesterification of Immiscible Polyester Blends. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1700-1709.	2.2	45
89	Electrospinning of poly(trimethylene terephthalate)/carbon nanotube composites. <i>European Polymer Journal</i> , 2011, 47, 284-293.	5.4	55
90	Characterization of mechanical properties of epoxy resin reinforced with submicron-sized ZnO prepared via in situ synthesis method. <i>Materials &amp; Design</i> , 2011, 32, 3986-3991.	5.1	31

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91	Controlled crystallization of titanium dioxide particles in the presence of poly(vinyl alcohol) from peroxytitanic acid. <i>Colloid and Polymer Science</i> , 2010, 288, 433-438.	2.1	3
92	Fabrication of mono-dispersed cerium oxide nanopowders via mixed solvothermal route. <i>Journal of Rare Earths</i> , 2010, 28, 139-143.	4.8	3
93	Relations between the aspect ratio of carbon nanotubes and the formation of percolation networks in biodegradable polylactide/carbon nanotube composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 479-489.	2.1	150
94	Viscoelastic interfacial properties of compatibilized poly( $\epsilon$ -caprolactone)/polylactide blend. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 756-765.	2.1	89
95	Crystallization and biodegradation of polylactide/carbon nanotube composites. <i>Polymer Engineering and Science</i> , 2010, 50, 1721-1733.	3.1	91
96	Nucleation Effect of Thermotropic Liquid Crystalline Polymer on the Crystallization of Poly( $\mu$ -Caprolactone). <i>Polymers and Polymer Composites</i> , 2010, 18, 91-101.	1.9	0
97	Preparation and properties of RE <sup>3+</sup> doped luminescent co-polymer by solution copolymerization. <i>Journal of Rare Earths</i> , 2009, 27, 761-766.	4.8	15
98	Degradation induced by nanostructural evolution of polylactide/clay nanocomposites in the isothermal cold crystallization process. <i>Polymer International</i> , 2009, 58, 430-436.	3.1	16
99	Study on physical properties of multiwalled carbon nanotube/poly(phenylene sulfide) composites. <i>Polymer Engineering and Science</i> , 2009, 49, 1727-1735.	3.1	49
100	Effect of steady shear on the morphology of biodegradable poly( $\epsilon$ -caprolactone)/polylactide blend. <i>Polymer Engineering and Science</i> , 2009, 49, 2293-2300.	3.1	28
101	Kinetics study on melt compounding of carbon nanotube/polypropylene nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 608-618.	2.1	55
102	Synthesis and characterization of photoluminescent terbium-containing polymer precursors. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 204, 19-24.	3.9	23
103	Selective Localization of Multiwalled Carbon Nanotubes in Poly( $\mu$ -caprolactone)/Polylactide Blend. <i>Biomacromolecules</i> , 2009, 10, 417-424.	5.4	345
104	Synthesis and characterization of hydrogel bonded with rare earth. <i>Journal of Rare Earths</i> , 2008, 26, 660-663.	4.8	9
105	Poly(phenylene sulfide) magnetic composites. I. Relations of percolation between rheology, electrical, and magnetic properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 233-243.	2.1	17
106	Poly(phenylene sulfide)/low melting point metal composites. I. Transient viscoelastic properties and crystallization kinetics. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 677-690.	2.1	8
107	Morphology evolution of nanocomposites based on poly(phenylene sulfide)/poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5	2.1	42
108	Poly(phenylene sulfide) magnetic composites. II. Crystallization, thermal, and viscoelastic properties. <i>Polymer Engineering and Science</i> , 2008, 48, 966-975.	3.1	16

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109	Crystallization and thermal behavior of multiwalled carbon nanotube/poly(butylene terephthalate) composites. <i>Polymer Engineering and Science</i> , 2008, 48, 1057-1067.	3.1	53
110	Poly(ethylene terephthalate)/expanded graphite conductive composites: Structure, properties, and transport behavior. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1482-1489.	2.6	46
111	Linear viscoelastic properties and crystallization behavior of multiwalled carbon nanotube/polypropylene composites. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1506-1513.	2.6	47
112	Viscoelastic properties of polyarylene ether nitriles/thermotropic liquid crystalline polymer blend. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1934-1941.	2.6	8
113	Morphology, nonisothermal crystallization behavior, and kinetics of poly(phenylene Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 582	2.6	22
114	Effect of steady shear on the microstructural evolution of melt-intercalated polymer/clay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2007, 105, 1740-1748.	2.6	4
115	Rheology of isothermally crystallized poly(butylene terephthalate) nanocomposites with clay loadings under the percolation threshold. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 229-238.	2.1	11
116	Nonisothermal cold crystallization behavior and kinetics of polylactide/clay nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 1100-1113.	2.1	187
117	Rheology of multiwalled carbon nanotube/poly(butylene terephthalate) composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 2239-2251.	2.1	108
118	Rheological properties and crystallization behavior of multiwalled carbon nanotube/poly( $\epsilon$ -caprolactone) composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 3137-3147.	2.1	152
119	Solvothermal synthesis of hexagonal ZnO nanorods and their photoluminescence properties. <i>Materials Letters</i> , 2007, 61, 2054-2057.	2.6	33
120	Effect of clay on immiscible morphology of poly(butylene terephthalate)/polyethylene blend nanocomposites. <i>Journal of Applied Polymer Science</i> , 2006, 102, 3628-3633.	2.6	61
121	Controlled Synthesis of Mono-Dispersed Cerium Oxide Nano Powders via a Mixed Solvothermal Route. <i>Advanced Materials Research</i> , 0, 554-556, 610-615.	0.3	0