

# Chandran Karunakaran

## List of Publications by Year in descending order

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190  
papers

4,046  
citations

136950

32  
h-index

155660

55  
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195  
all docs

195  
docs citations

195  
times ranked

4888  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> dispersed In <sub>2</sub> O <sub>3</sub> spotted ZnO nanoparticles: Ammonia source and surface and photocatalytic properties. International Journal of Applied Ceramic Technology, 2022, 19, 2356-2366.	2.1	0
2	Synthesis of photocatalytic CdO-imbedded ZnO nanopebbles for enhanced biocidal activity. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2021, 12, 015014.	1.5	0
3	Tuning the optical, electrical and photocatalytic properties of nanoparticulate TiO <sub>2</sub> through anatase-coating on rutile. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2020, 11, 025013.	1.5	1
4	Synthesis of superparamagnetic biocidal superior solar photocatalytic Fe <sub>3</sub> O <sub>4</sub> -implanted Ag <sub>2</sub> S-capped ZnO micro-clubells. SN Applied Sciences, 2019, 1, 1.	2.9	1
5	Synthesis of Superparamagnetic ZnFe <sub>2</sub> O <sub>4</sub> -Core/Ag-Deposited ZnO-Shell Nanodiscs for Application as Visible Light Photocatalyst. Journal of Nanoscience and Nanotechnology, 2019, 19, 4064-4071.	0.9	6
6	CdO-implanted hexagonal ZnO nanoplatelets: red-shifted emission and enhanced charge carrier-resistance and bacteria-inactivation. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	6
7	Conversion of anilines into azobenzenes in acetic acid with perborate and Mo(VI): correlation of reactivities. Chemical Papers, 2019, 73, 375-385.	2.2	8
8	Synthesis, electrical, magnetic, optical and bactericidal properties and enhanced photocatalytic activity of Ag-decorated ZnFe <sub>2</sub> O <sub>4</sub> -dispersed ZnO nanoflakes. Surfaces and Interfaces, 2018, 10, 123-128.	3.0	8
9	CdO-Intercalated TiO <sub>2</sub> Nanosphere-Clusters: Synthesis and Electrical, Optical and Photocatalytic Properties. Silicon, 2018, 10, 2927-2934.	3.3	9
10	Synthesis of Superparamagnetic Cu <sub>0.4</sub> Zn <sub>0.6</sub> Fe <sub>2</sub> O <sub>4</sub> -Implanted Bi <sub>2</sub> S <sub>3</sub> -Capped TiO <sub>2</sub> 2D and 3D Nanostructures for Visible Light Photocatalysis. ACS Omega, 2018, 3, 18958-18966.	3.5	7
11	Electron Paramagnetic Resonance Spectroscopy. , 2018, , 169-228.		6
12	Applications of Electron Paramagnetic Resonance. , 2018, , 281-347.		0
13	Advances in Electron Paramagnetic Resonance. , 2018, , 229-280.		2
14	CdO-Implanted TiO <sub>2</sub> Pebbles: Hydrothermal Synthesis and Electrical, Optical and Photocatalytic Properties. Materials Focus, 2018, 7, 188-193.	0.4	3
15	Enhancing Semiconductor-Photocatalytic Organic Transformation through Interparticle Charge Transfer. Materials Research Foundations, 2018, , 358-369.	0.3	1
16	Study of interfacial charge transfer in nanosemiconductor molecule composites. Journal of Physical Organic Chemistry, 2017, 30, e3600.	1.9	0
17	Perforated ZnFe <sub>2</sub> O <sub>4</sub> /ZnO hybrid nanosheets: enhanced charge-carrier lifetime, photocatalysis, and bacteria inactivation. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	8
18	Superparamagnetic core/shell Fe <sub>2</sub> O <sub>3</sub> /ZnO nanosheets as photocatalyst cum bactericide. Catalysis Today, 2017, 284, 114-120.	4.4	31

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19	CuFe <sub>2</sub> O <sub>4</sub> -Encapsulated ZnO Nanoplates: Magnetically Retrievable Biocidal Photocatalyst. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4489-4497.	0.9	7
20	Synthesis, Optical, Electrical and Optoelectronic Characteristics and Photocatalytic Performance of Nanoparticulate Core/Shell ZrO <sub>2</sub> /TiO <sub>2</sub> . <i>Materials Focus</i> , 2017, 6, 512-516.	0.4	2
21	SYNERGISM OF V <sub>2</sub> O <sub>5</sub> AND ZnS IN THE PHOTO-OXIDATIVE CONVERSION OF DIPHENYLAMINE ON CdO SURFACE.. <i>European Chemical Bulletin</i> , 2017, 6, 108.	2.7	0
22	ZnO-Photocatalyzed Oxidative Transformation of Diphenylamine. Synergism by TiO <sub>2</sub> , V <sub>2</sub> O <sub>5</sub> , CeO <sub>2</sub> and ZnS. <i>Journal of the Mexican Chemical Society</i> , 2017, 59, .	0.6	0
23	Tri-functional Fe <sub>2</sub> O <sub>3</sub> -encased Ag-doped ZnO nanoframework: magnetically retrievable antimicrobial photocatalyst. <i>Materials Research Express</i> , 2016, 3, 115501.	1.6	4
24	Magnetically recoverable Fe <sub>3</sub> O <sub>4</sub> -implanted Ag-loaded ZnO nanoflakes for bacteria-inactivation and photocatalytic degradation of organic pollutants. <i>New Journal of Chemistry</i> , 2016, 40, 1845-1852.	2.8	28
25	Structural, optical and photoconductivity characteristics of pristine Fe <sub>3</sub> O <sub>4</sub> and NTPi-Fe <sub>3</sub> O <sub>4</sub> nanocomposite: aggregation induced emission enhancement of fluorescent organic nanoprobe of thiophene appended phenanthrimidazole derivative. <i>RSC Advances</i> , 2016, 6, 18718-18736.	3.6	8
26	Enhanced photocatalytic activity of magnetically separable bactericidal CuFe <sub>2</sub> O <sub>4</sub> -embedded Ag-deposited ZnO nanosheets. <i>RSC Advances</i> , 2016, 6, 1782-1791.	3.6	21
27	Absorption, photoluminescence and photoelectron transfer resistance of sol-gel synthesized core/shell CuO/TiO <sub>2</sub> nanoparticles. <i>Optik</i> , 2016, 127, 3013-3017.	2.9	9
28	Fused Methoxynaphthyl Phenanthrimidazole Semiconductors as Functional Layer in High Efficient OLEDs. <i>Journal of Fluorescence</i> , 2016, 26, 307-316.	2.5	2
29	Optical and theoretical studies on Fe <sub>3</sub> O <sub>4</sub> -imidazole nanocomposite and clusters. <i>New Journal of Chemistry</i> , 2015, 39, 3801-3812.	2.8	15
30	Absorption, emission, charge transfer resistance and photocatalytic activity of Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> core/shell nanoparticles. <i>Superlattices and Microstructures</i> , 2015, 83, 659-667.	3.1	18
31	Thermodynamically feasible photoelectron transfer from bioactive $\pi$ -expanded imidazole luminophores to ZnO nanocrystals. <i>New Journal of Chemistry</i> , 2015, 39, 1800-1813.	2.8	3
32	Inhibition of fluorescence of styryl phenanthrimidazole on doping nanocrystalline ZnO with bismuth. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 65, 129-134.	5.0	1
33	Enhancement of TiO <sub>2</sub> -photocatalyzed organic transformation by ZnO and ZnS. Oxidation of diphenylamine. <i>Egyptian Journal of Basic and Applied Sciences</i> , 2015, 2, 32-38.	0.6	2
34	Enhancing photoresponse of ionic liquid-ZnO composite: Molecular docking study. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 814-821.	7.8	4
35	Photoinduced oxidative transformation of diphenylamine on CeO <sub>2</sub> . <i>Journal of Taibah University for Science</i> , 2015, 9, 513-520.	2.5	0
36	Photoinduced oxidative transformation of diphenylamine on Al <sub>2</sub> O <sub>3</sub> with enhancement by ZnO synergism. <i>Karbala International Journal of Modern Science</i> , 2015, 1, 32-38.	1.0	1

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37	Understanding the binding interaction of imidazole with ZnO nanomaterials and clusters. RSC Advances, 2015, 5, 9518-9531.	3.6	14
38	Synthesis of Nanoparticulate In <sup>3+</sup> -Doped BiVO <sub>4</sub> for Enhanced Visible-Light Photocatalytic Degradation of Dye. International Journal of Applied Ceramic Technology, 2015, 12, 711-721.	2.1	8
39	Binding interaction between 2-(naphthalen-1-yl)-1-p-tolyl-1H-phenanthro[9,10-d]imidazole and semiconductor nanomaterials. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 1428-1433.	3.9	0
40	Enhancing the photoluminescence of 1-(naphthalene-1-yl)-2,4,5-triphenyl-1H-imidazole anchored to superparamagnetic nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 135, 1169-1172.	3.9	2
41	Turn-off of fluorescence of styryl phenanthrimidazole on doping ZnO nanoparticles with Ce <sup>3+</sup> . Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 135, 264-269.	3.9	5
42	Donor-acceptor binding interaction of 1-(naphthalene-1-yl)-2,4,5-triphenyl-1H-imidazole with semiconductor nanomaterials. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 137, 333-337.	3.9	0
43	Particulate sol-gel synthesis and optical and electrical properties of CeO <sub>2</sub> /TiO <sub>2</sub> nanocomposite. Journal of the Iranian Chemical Society, 2015, 12, 75-80.	2.2	13
44	Light-induced oxidative transformation of diphenylamine on ZrO <sub>2</sub> . Synergism by ZnO and ZnS. Journal of the Serbian Chemical Society, 2015, 80, 1411-1421.	0.8	0
45	Benzimidazole based Ir(III) picolinate complexes as emitting materials and the fluorescent behavior of benzimidazole bound to Mn <sup>2+</sup> -TiO <sub>2</sub> /ZnO core/shell nanospheres. Materials Express, 2014, 4, 279-292.	0.5	10
46	Electrical, optical, and visible light-photocatalytic properties of zirconium-doped BiVO <sub>4</sub> nanoparticles. Materials Express, 2014, 4, 125-134.	0.5	16
47	Nonquenching of Charge Carriers by Fe <sub>3</sub> O <sub>4</sub> Core in Fe <sub>3</sub> O <sub>4</sub> /ZnO Nanosheet Photocatalyst. Langmuir, 2014, 30, 15031-15039.	3.5	92
48	V <sub>2</sub> O <sub>5</sub> -Photocatalyzed Oxidation of Diphenylamine. Materials Science Forum, 2014, 807, 81-90.	0.3	0
49	Magnetically separable Cd <sup>2+</sup> -deposited Fe <sub>3</sub> O <sub>4</sub> -implanted ZnO microrods for solar photocatalysis. Micro and Nano Letters, 2014, 9, 529-531.	1.3	5
50	Electrical, optical and visible light-photocatalytic properties of monoclinic BiVO <sub>4</sub> nanoparticles synthesized hydrothermally at different pH. Materials Science in Semiconductor Processing, 2014, 21, 122-131.	4.0	28
51	Characterization and electronic spectral studies of 2-(naphthalen-1-yl)-4,5-diphenyl-1H-imidazole bound Fe <sub>2</sub> O <sub>3</sub> nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 120, 84-87.	3.9	3
52	Electrical, optical, photocatalytic, and bactericidal properties of polyethylene glycol-assisted sol-gel synthesized ZnTiO <sub>3</sub> -implanted ZnO nanoparticles. Materials Research Express, 2014, 1, 045019.	1.6	6
53	Nano rutile TiO <sub>2</sub> catalysed synthesis of (E)-4-(2-(1-(4-chlorophenyl)-1H-phenanthro[9,10-d]imidazol-2-yl)vinyl)-N,N-dimethylaniline and its interaction with super paramagnetic nanoparticles. RSC Advances, 2014, 4, 62144-62152.	3.6	3
54	Spectroscopic Studies on Photoelectron Transfer from 2-(furan-2-yl)-1-phenyl-1H-phenanthro[9,10-d]imidazole to ZnO, Cu <sup>2+</sup> -doped ZnO and Ag <sup>+</sup> -doped ZnO. Journal of Fluorescence, 2014, 24, 1447-1455.	2.5	1

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55	Styryl phenanthrimidazole-fluorescence switched on by core/shell BaTiO <sub>3</sub> /ZnO and Mn-doped TiO <sub>2</sub> /ZnO nanospheres and switched off by the core nanoparticles. RSC Advances, 2014, 4, 59908-59916.	3.6	4
56	Binding and fluorescence enhancing behaviour of phenanthrimidazole with different phases of TiO <sub>2</sub> . New Journal of Chemistry, 2014, 38, 4321.	2.8	7
57	Enhanced visible light-photocatalysis by hydrothermally synthesized thallium-doped bismuth vanadate nanoparticles. Materials Science in Semiconductor Processing, 2014, 27, 352-361.	4.0	18
58	Nano ZnO, Cu-doped ZnO, and Ag-doped ZnO assisted generation of light from imidazole. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 295, 1-10.	3.9	22
59	Optical, electrical, and photocatalytic properties of polyethylene glycol-assisted sol-gel synthesized BaTiO <sub>3</sub> @ZnO core-shell nanoparticles. Powder Technology, 2014, 254, 480-487.	4.2	21
60	Enhancing photoluminescent behavior of 2-(naphthalen-1-yl)-1,4,5-triphenyl-1H-imidazole by ZnO and Bi <sub>2</sub> O <sub>3</sub> . Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 118, 182-186.	3.9	19
61	Optical, electrical and visible light-photocatalytic properties of yttrium-substituted BiVO <sub>4</sub> nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 187, 53-60.	3.5	14
62	Optical, electrical and visible light-photocatalytic properties of hydrothermally synthesized amorphous BiVO <sub>4</sub> nanoparticles. Materials Letters, 2014, 122, 21-24.	2.6	15
63	Photocatalytic bacteria inactivation by polyethylene glycol-assisted sol-gel synthesized Cd-doped TiO <sub>2</sub> under visible light. Research on Chemical Intermediates, 2013, 39, 1437-1446.	2.7	7
64	Fe <sub>3</sub> O <sub>4</sub> /SnO <sub>2</sub> nanocomposite: Hydrothermal and sonochemical synthesis, characterization, and visible-light photocatalytic and bactericidal activities. Powder Technology, 2013, 246, 635-642.	4.2	34
65	Nanostructures and optical, electrical, magnetic, and photocatalytic properties of hydrothermally and sonochemically prepared CuFe <sub>2</sub> O <sub>4</sub> /SnO <sub>2</sub> . RSC Advances, 2013, 3, 16728.	3.6	45
66	Solar Photocatalytic Disinfection of Bacteria. , 2013, , 243-262.		0
67	Microwave, sonochemical and combustion synthesized CuO nanostructures and their electrical and bactericidal properties. Journal of Alloys and Compounds, 2013, 580, 570-577.	5.5	36
68	Electrical, optical and photocatalytic properties of polyethylene glycol-assisted sol-gel synthesized Mn-doped TiO <sub>2</sub> /ZnO core-shell nanoparticles. Superlattices and Microstructures, 2013, 64, 569-580.	3.1	24
69	Photoinduced electron-transfer from benzimidazole to nanocrystals. Journal of Molecular Liquids, 2013, 177, 295-300.	4.9	9
70	Electrical and optical properties of polyethylene glycol-assisted sol-gel solid state reaction-synthesized nanostructured CdTiO <sub>3</sub> . Materials Science in Semiconductor Processing, 2013, 16, 1992-1996.	4.0	13
71	Solvothermal Synthesis of CeO <sub>2</sub> @TiO <sub>2</sub> Nanocomposite for Visible Light Photocatalytic Detoxification of Cyanide. ACS Sustainable Chemistry and Engineering, 2013, 1, 1555-1563.	6.7	97
72	The enhanced photocatalytic and bactericidal activities of carbon microsphere-assisted solvothermally synthesized cocoon-shaped Sn <sup>4+</sup> -doped ZnO nanoparticles. Dalton Transactions, 2013, 42, 13855.	3.3	34

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73	Microstructures and optical, electrical and photocatalytic properties of sonochemically and hydrothermally synthesized SnO <sub>2</sub> nanoparticles. <i>Journal of Alloys and Compounds</i> , 2013, 549, 269-275.	5.5	36
74	Photoinduced electron transfer from phenanthroimidazole to nano WO <sub>3</sub> , CuO ZrO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> . LUMO $\leftrightarrow$ CB energy binding efficiency relationship. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 3261-3267.	5.0	5
75	Benzimidazole: Dramatic luminescence turn-on by ZnO nanocrystals. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 3883-3886.	5.0	17
76	Contrasting emission behaviour of phenanthroimidazole with ZnO nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 115, 488-492.	3.9	8
77	Benzimidazole derivative vs. different phases of TiO <sub>2</sub> -physico-chemical approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 114, 303-308.	3.9	9
78	Fluorescence enhancing and quenching of TiO <sub>2</sub> by benzimidazole. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 207-211.	7.8	27
79	Fluorescence quenching of organic molecule by insulator. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 112, 417-421.	3.9	15
80	Photocatalytic Activities of CdO-Fe <sub>2</sub> O <sub>3</sub> , CdO-CuFe <sub>2</sub> O <sub>4</sub> and CdO-ZnFe <sub>2</sub> O <sub>4</sub> Nanocomposites. <i>Materials Science Forum</i> , 2013, 764, 206-218.	0.3	3
81	Photoinduced electron transfer from benzimidazole to nano WO <sub>3</sub> , CuO and Fe <sub>2</sub> O <sub>3</sub> . A new approach on LUMO $\leftrightarrow$ CB energy-binding efficiency relationship. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 514-520.	7.8	22
82	Contrasting emission behavior of phenanthroimidazole with rutile and anatase TiO <sub>2</sub> nanoparticles. <i>Journal of Luminescence</i> , 2013, 138, 235-241.	3.1	15
83	Optical, Electrical, and Photocatalytic Characteristics of Sol-Gel Derived CuO-TiO <sub>2</sub> Nanocomposite. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2013, 43, 19-23.	0.6	3
84	Photocatalytic and bactericidal activities of hydrothermally and sonochemically prepared Fe <sub>2</sub> O <sub>3</sub> -SnO <sub>2</sub> nanoparticles. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 818-824.	4.0	23
85	Electronic properties of phenanthrimidazoles as hole transport materials in organic light emitting devices and in photoelectron transfer to ZnO nanoparticles. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 386-406.	1.9	10
86	Interaction of fluorescent sensor with superparamagnetic iron oxide nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 110, 151-156.	3.9	17
87	Hydrothermal and sonochemical preparation and photocatalytic and bactericidal activities of ZnFe <sub>2</sub> O <sub>4</sub> -SnO <sub>2</sub> nanocomposite. <i>Superlattices and Microstructures</i> , 2013, 60, 487-499.	3.1	12
88	CuO Nanoparticles with Leaf-Like Microstructure – A Powerful Nonenzymatic Glucose Sensor. <i>Sensor Letters</i> , 2013, 11, 1478-1483.	0.4	1
89	Hot-Injection Synthesis of Bactericidal Sn-Doped TiO <sub>2</sub> Nanospheres for Visible-Light Photocatalysis. <i>Materials Express</i> , 2012, 2, 319-326.	0.5	12
90	Inhibition of fluorescence enhancement of benzimidazole derivative on doping ZnO with Cu and Ag. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 247, 16-23.	3.9	28

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91	Lack of enhanced photocatalytic formation of iodine on particulate semiconductor mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 98, 460-465.	3.9	6
92	Photosensitization of Imidazole Derivative by ZnO Nanoparticle. <i>Journal of Fluorescence</i> , 2012, 22, 1047-1053.	2.5	18
93	Photoinduced electron-transfer from imidazole derivative to nano-semiconductors. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 89, 187-193.	3.9	20
94	Phenol-photodegradation on ZrO <sub>2</sub> . Enhancement by semiconductors. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 92, 201-206.	3.9	24
95	Sensing rutile TiO <sub>2</sub> through fluorescence of imidazole derivative. <i>Sensors and Actuators B: Chemical</i> , 2012, 168, 263-270.	7.8	25
96	Photocatalytic and bactericidal activities of hydrothermally synthesized nanocrystalline Cd-doped ZnO. <i>Superlattices and Microstructures</i> , 2012, 51, 443-453.	3.1	57
97	Efficient Photocatalytic Degradation of Salicylic Acid by Bactericidal ZnO. <i>Journal of the Korean Chemical Society</i> , 2012, 56, 108-114.	0.2	4
98	Visible light photocatalytic disinfection of bacteria by Cd-doped TiO <sub>2</sub> . <i>Catalysis Communications</i> , 2011, 12, 826-829.	3.3	56
99	Photodeposited Surface Ag on ZnO Nanocrystals and the Optical, Electrical, Photocatalytic, and Bactericidal Properties. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2011, 41, 369-375.	0.6	13
100	NiO/TiO <sub>2</sub> Nanoparticles for Photocatalytic Disinfection of Bacteria under Visible Light. <i>Journal of the American Ceramic Society</i> , 2011, 94, 2499-2505.	3.8	30
101	Optical, electrical, photocatalytic, and bactericidal properties of microwave synthesized nanocrystalline Ag-doped ZnO and ZnO. <i>Solid State Sciences</i> , 2011, 13, 923-928.	3.2	128
102	Preparation and characterization of ZnO-doped TiO <sub>2</sub> nanocomposite for photocatalytic disinfection of bacteria and detoxification of cyanide under visible light. <i>Materials Research Bulletin</i> , 2011, 46, 1586-1592.	5.2	78
103	Solar photocatalytic detoxification of cyanide by different forms of TiO <sub>2</sub> . <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1214-1220.	2.7	13
104	Photoproduction of iodine with nanoparticulate semiconductors and insulators. <i>Chemistry Central Journal</i> , 2011, 5, 31.	2.6	50
105	Enhanced photocatalytic and antibacterial activities of sol-gel synthesized ZnO and Ag-ZnO. <i>Materials Science in Semiconductor Processing</i> , 2011, 14, 133-138.	4.0	125
106	Combustion synthesis of ZnO and Ag-doped ZnO and their bactericidal and photocatalytic activities. <i>Superlattices and Microstructures</i> , 2011, 50, 234-241.	3.1	58
107	Photocatalytic degradation of 1-naphthol by oxide ceramics with added bacterial disinfection. <i>Journal of Hazardous Materials</i> , 2010, 181, 708-715.	12.4	32
108	Kinetics of Ag/TiO <sub>2</sub> -photocatalyzed iodide ion oxidation. <i>Monatshefte für Chemie</i> , 2010, 141, 529-537.	1.8	11

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109	Photomineralization of phenol on Al <sub>2</sub> O <sub>3</sub> : synergistic photocatalysis by semiconductors. <i>Research on Chemical Intermediates</i> , 2010, 36, 361-371.	2.7	13
110	Preparation and characterization of antimicrobial Ce-doped ZnO nanoparticles for photocatalytic detoxification of cyanide. <i>Materials Chemistry and Physics</i> , 2010, 123, 585-594.	4.0	173
111	Cu-doped TiO <sub>2</sub> nanoparticles for photocatalytic disinfection of bacteria under visible light. <i>Journal of Colloid and Interface Science</i> , 2010, 352, 68-74.	9.4	189
112	Enhanced phenol-photodegradation by particulate semiconductor mixtures: Interparticle electron-jump. <i>Journal of Hazardous Materials</i> , 2010, 176, 799-806.	12.4	52
113	Solar-powered potentially induced TiO <sub>2</sub> , ZnO and SnO <sub>2</sub> -catalyzed iodine generation. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 900-906.	6.2	14
114	Antibacterial and photocatalytic activities of sonochemically prepared ZnO and Ag@ZnO. <i>Journal of Alloys and Compounds</i> , 2010, 508, 587-591.	5.5	110
115	Substituent effect on nano TiO <sub>2</sub> and ZnO-catalyzed phenol photodegradation rates. <i>International Journal of Chemical Kinetics</i> , 2009, 41, 275-283.	1.6	20
116	Semiconductor photocatalyzed degradation of carboxylic acids: Enhancement by particulate semiconductor mixture. <i>International Journal of Chemical Kinetics</i> , 2009, 41, 716-726.	1.6	11
117	Photoreduction of chromium(VI) on ZrO <sub>2</sub> and ZnS surfaces. <i>Monatshefte für Chemie</i> , 2009, 140, 1269-1274.	1.8	17
118	Photooxidation of Oxalic Acid on Sm <sub>2</sub> O <sub>3</sub> : Synergism by Semiconductors. <i>Catalysis Letters</i> , 2009, 130, 222-226.	2.6	2
119	Synthesis and Characterization of Rare Earth Orthovanadate (RVO <sub>4</sub> ; R=La, Ce, Nd, Sm, Eu & Gd) Nanorods/Nanocrystals/Nanospindles by a Facile Sonochemical Method and Their Catalytic Properties. <i>Journal of Cluster Science</i> , 2009, 20, 291-305.	3.3	118
120	Photodegradation of phenol on Y <sub>2</sub> O <sub>3</sub> surface Synergism by semiconductors. <i>Journal of Hazardous Materials</i> , 2009, 167, 664-668.	12.4	16
121	Phenol degradation on Pr <sub>6</sub> O <sub>11</sub> surface under UV-A light. Synergistic photocatalysis by semiconductors. <i>Radiation Physics and Chemistry</i> , 2009, 78, 8-12.	2.8	16
122	Degradation of carboxylic acids on Y <sub>2</sub> O <sub>3</sub> surface under UV light. Synergism by semiconductors. <i>Radiation Physics and Chemistry</i> , 2009, 78, 173-176.	2.8	5
123	Photodegradation of carboxylic acids on Pr <sub>6</sub> O <sub>11</sub> surface. Enhancement by semiconductors. <i>Chemical Engineering Journal</i> , 2009, 151, 46-50.	12.7	6
124	Selectivity in photocatalysis by particulate semiconductors. <i>Open Chemistry</i> , 2009, 7, 134-137.	1.9	17
125	Solar-driven electrochemically assisted semiconductor-catalyzed iodide ion oxidation. Enhanced efficiency by oxide mixtures. <i>Open Chemistry</i> , 2009, 7, 519-523.	1.9	3
126	Photooxidation of iodide ion on immobilized semiconductor powders. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 490-494.	6.2	22



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127	Photocatalytic performance of particulate semiconductors under natural sunshine—Oxidation of carboxylic acids. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 588-593.	6.2	47
128	Semiconductor-catalyzed degradation of phenols with sunlight. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1315-1321.	6.2	112
129	Semiconductor-catalyzed solar photooxidation of iodide ion. <i>Journal of Molecular Catalysis A</i> , 2007, 265, 153-158.	4.8	41
130	Mo(VI)-catalysis of perborate oxidation in acetic acid: Oxidation of dimethyl and dibenzyl sulfoxides. <i>Catalysis Communications</i> , 2006, 7, 236-239.	3.3	11
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142	Photooxidation of aniline on alumina with sunlight and artificial UV light. <i>Catalysis Communications</i> , 2005, 6, 159-165.	3.3	28
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144	Synthesis, X-ray crystal structure, antimicrobial activity and photodynamic effects of some thiabendazole complexes. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 322-332.	3.5	55

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146	Kinetic Evidence of Perborate Oxidation of N-Methylaniline in Acetic Acid as Borate Assisted Hydrogen Peroxide Oxidation. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2004, 34, 541-551.	1.8	0
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