

Luminescence and Photocatalytic Activity of ZnO Nano Structure and Property

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Study on the photocatalytic degradation of methyl orange in water using Ag/ZnO as catalyst by liquid chromatography electrospray ionization ion-trap mass spectrometry. Journal of the American Society for Mass Spectrometry, 2008, 19, 997-1003.	1.2	211
2	Raman Spectroscopy of Nanoparticles Using Hollow-Core Photonic Crystal Fibers. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 1214-1222.	1.9	30
3	Excitation wavelength dependence of the visible photoluminescence from amorphous ZnO granular films. Journal of Applied Physics, 2008, 103, .	1.1	74
4	Amino Acid-Assisted Synthesis of ZnO Hierarchical Architectures and Their Novel Photocatalytic Activities. Crystal Growth and Design, 2008, 8, 3010-3018.	1.4	144
5	One-Pot Synthesis of Ag/ZnO Self-Assembled 3D Hollow Microspheres with Enhanced Photocatalytic Performance. Journal of Physical Chemistry C, 2008, 112, 16792-16800.	1.5	331
6	Origin of the Enhanced Photocatalytic Activities of Semiconductors: A Case Study of ZnO Doped with Mg ²⁺ . Journal of Physical Chemistry C, 2008, 112, 12242-12248.	1.5	229
7	Photocatalytic Activity of Ag/ZnO Heterostructure Nanocatalyst: Correlation between Structure and Property. Journal of Physical Chemistry C, 2008, 112, 10773-10777.	1.5	420
8	Large Scale Fabrication of Quasi-Aligned ZnO Stacking Nanoplates. Journal of Physical Chemistry C, 2008, 112, 5267-5270.	1.5	74
9	Reduction of Nanostructured CuO Bundles: Correlation between Microstructure and Reduction Properties. Crystal Growth and Design, 2008, 8, 3549-3554.	1.4	37
10	Photonic Crystal Fibers: A Platform for Raman Spectroscopy of Colloidal Nanoparticles in Solution. , 2008, , .		0
11	A novel and simple method to grow beaded nanochains of ZnO with superior photocatalytic activity. Nanotechnology, 2009, 20, 475602.	1.3	45
12	Surface doping for photocatalytic purposes: relations between particle size, surface modifications, and photoactivity of SnO ₂ :Zn ²⁺ nanocrystals. Nanotechnology, 2009, 20, 155706.	1.3	67
13	Temperature-controlled growth and optical properties of ZnO nanorods with quadrangular and hexagonal cross sections. Materials Chemistry and Physics, 2009, 115, 799-803.	2.0	19
14	Synthesis of tunable 3D ZnO architectures assembled with nanoplates. Crystal Research and Technology, 2009, 44, 613-618.	0.6	11
15	Experimental Study on Photocatalytic Activity of Cu ₂ O/Cu Nanocomposites Under Visible Light. Catalysis Letters, 2009, 132, 75-80.	1.4	61
16	ZnO micro- and nano-structures: microwave-assisted solvothermal synthesis, morphology control and photocatalytic properties. Applied Physics A: Materials Science and Processing, 2009, 97, 847-852.	1.1	32
17	Preparation, characterization of the Ta-doped ZnO nanoparticles and their photocatalytic activity under visible-light illumination. Journal of Solid State Chemistry, 2009, 182, 2061-2067.	1.4	83
18	Zinc Glycolate: A Precursor to ZnO. Inorganic Chemistry, 2009, 48, 3508-3510.	1.9	72

#	ARTICLE	IF	CITATIONS
19	Optical Properties and Photocatalytic Performances of Pd Modified ZnO Samples. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18761-18767.	1.5	127
20	ZnO with Different Morphologies Synthesized by Solvothermal Methods for Enhanced Photocatalytic Activity. <i>Chemistry of Materials</i> , 2009, 21, 2875-2885.	3.2	444
21	Corundum-type tubular and rod-like In ₂ O ₃ nanocrystals: synthesis from designed InOOH and application in photocatalysis. <i>New Journal of Chemistry</i> , 2009, 33, 1109.	1.4	30
22	Relationship between Oxygen Defects and the Photocatalytic Property of ZnO Nanocrystals in Nafion Membranes. <i>Langmuir</i> , 2009, 25, 1218-1223.	1.6	312
23	Cationic and Anionic Surface Binding Sites on Nanocrystalline Zinc Oxide: Surface Influence on Photoluminescence and Photocatalysis. <i>Journal of the American Chemical Society</i> , 2009, 131, 4397-4404.	6.6	123
24	Enhanced photocatalytic properties of quantum-sized ZnO induced by La ³⁺ -Nd ³⁺ co-doping. <i>Journal of Physics: Conference Series</i> , 2009, 188, 012007.	0.3	1
25	Modelling of nanoparticles: approaches to morphology and evolution. <i>Reports on Progress in Physics</i> , 2010, 73, 086502.	8.1	166
26	A simple solvothermal route towards the morphological control of ZnO and tuning of its optical and photocatalytic properties. <i>Science China Chemistry</i> , 2010, 53, 1711-1717.	4.2	7
27	Functional finishing of polyamide fabrics using ZnO-PMMA nanocomposites. <i>Journal of Materials Science</i> , 2010, 45, 2427-2435.	1.7	46
28	Enhancement of cyanide photocatalytic degradation using sol-gel ZnO sensitized with cobalt phthalocyanine. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 54, 1-7.	1.1	27
29	Structure and optical properties of tungsten oxide nanomaterials prepared by a modified plasma arc gas condensation technique. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1755-1763.	0.8	18
30	Porosity and photocatalytic studies of transition metal doped ZnO nanoclusters. <i>Microporous and Mesoporous Materials</i> , 2010, 134, 195-202.	2.2	186
31	One pot synthesis of Ag nanoparticle modified ZnO microspheres in ethylene glycol medium and their enhanced photocatalytic performance. <i>Journal of Solid State Chemistry</i> , 2010, 183, 2720-2725.	1.4	50
32	Low temperature growth of ZnO nanorods on flexible polymeric substrates. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2319-2323.	1.3	18
33	Structural and photoelectrocatalytic characteristic of ZnO/ZnWO ₄ /WO ₃ nanocomposites with double heterojunctions. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 503-509.	1.3	58
34	One-step synthesis, characterizations and mechanistic study of nanosheets-constructed fluffy ZnO and Ag/ZnO spheres used for Rhodamine B photodegradation. <i>Applied Catalysis B: Environmental</i> , 2010, 100, 491-501.	10.8	132
35	A facile wet chemical route to prepare ZnO/TiO ₂ nanotube composites and their photocatalytic activities. <i>Journal of Materials Research</i> , 2010, 25, 1278-1287.	1.2	18
36	Dynamics of light harvesting in ZnO nanoparticles. <i>Nanotechnology</i> , 2010, 21, 265703.	1.3	45

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37	Synthesis and characterization of one-dimensional flat ZnO nanotower arrays as high-efficiency adsorbents for the photocatalytic remediation of water pollutants. <i>Nanoscale</i> , 2010, 2, 2685.	2.8	50
38	Controlled Co(II) Doping of Zinc Oxide Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18139-18145.	1.5	28
39	SolâGel Growth of Hexagonal Faceted ZnO Prism Quantum Dots with Polar Surfaces for Enhanced Photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1769-1773.	4.0	147
40	Nonhydrolytic Route for Synthesis of ZnO and Its Use as a Recyclable Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2544-2550.	1.5	83
41	Inducing nanolayers-assembly of FePtDy 1D superstructure and its induced visible light photocatalysis effect for TiO ₂ . <i>Journal of Materials Chemistry</i> , 2010, 20, 7661.	6.7	19
42	Enhancement of visible light photocatalysis by grafting ZnO nanoplatelets with exposed (0001) facets onto a hierarchical substrate. <i>Chemical Communications</i> , 2011, 47, 10797.	2.2	89
43	Enhanced Raman scattering and photocatalytic activity of Ag/ZnO heterojunction nanocrystals. <i>Dalton Transactions</i> , 2011, 40, 9566.	1.6	123
44	The effect of 1-N-alkyl chain of ionic liquids [C _n mim] ⁺ Br ⁻ (n = 2, 4, 6, 8) on the aspect ratio of ZnO nanorods: syntheses, morphology, forming mechanism, photoluminescence and recyclable photocatalytic activity. <i>Journal of Materials Chemistry</i> , 2011, 21, 15732.	6.7	17
45	Hierarchical ZnO microarchitectures assembled by ultrathin nanosheets: hydrothermal synthesis and enhanced photocatalytic activity. <i>Journal of Materials Chemistry</i> , 2011, 21, 4228.	6.7	191
46	Synthesis of visible-light responsive Sn-SnO ₂ /C photocatalyst by simple carbothermal reduction. <i>Energy and Environmental Science</i> , 2011, 4, 3067.	15.6	79
47	Ultraviolet-Light-Assisted Formation of ZnO Nanowires in Ambient Air: Comparison of Photoresponsive and Photocatalytic Activities in Zinc Hydroxide. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2235-2243.	1.5	70
48	Ag@ZnO CoreâShell Nanoparticles Formed by the Timely Reduction of Ag ⁺ Ions and Zinc Acetate Hydrolysis in N,N-Dimethylformamide: Mechanism of Growth and Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24967-24974.	1.5	95
49	Facile Synthesis of Monodisperse Porous ZnO Spheres by a Soluble Starch-Assisted Method and Their Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7145-7152.	1.5	218
50	Synthesis and optical properties of ZnO nanorods on indium tin oxide substrate. <i>Applied Surface Science</i> , 2011, 258, 93-97.	3.1	17
51	Effect of Native Defects on Photocatalytic Properties of ZnO. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11095-11101.	1.5	238
52	Characterization of zinc oxide nanoparticles synthesized by polymer assisted deposition method. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1716-1721.	2.8	22
53	ZnO and TiO ₂ 1D nanostructures for photocatalytic applications. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1328-1332.	2.8	89
54	Defect mediated photocatalytic activity in shape-controlled ZnO nanostructures. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6725-6730.	2.8	109

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55	Photocatalytic degradation of methyl orange using ZnO nanorods. Toxicological and Environmental Chemistry, 2011, 93, 623-634.	0.6	43
56	Interfacial Heterostructure Phenomena of Highly Luminescent ZnS ²⁺ ZnO Quantum Dots. Journal of the Electrochemical Society, 2011, 158, H30.	1.3	17
57	Hydrogen Incorporation in Undoped ZnO Nanoparticles. World Journal of Condensed Matter Physics, 2011, 01, 130-136.	1.1	11
58	Enhanced photocatalytic activity of Bi ₂ WO ₆ with oxygen vacancies by zirconium doping. Journal of Hazardous Materials, 2011, 196, 255-262.	6.5	173
59	Enhanced photocatalytic activity of flowerlike Cu ₂ O/Cu prepared using solvent-thermal route. Materials Chemistry and Physics, 2011, 126, 847-852.	2.0	46
60	Comparison of structural, optical properties and photocatalytic activity of ZnO with different morphologies: Effect of synthesis methods and reaction media. Materials Chemistry and Physics, 2011, 129, 249-255.	2.0	94
61	Synthesis of Sn-doped ZnO nanorods and their photocatalytic properties. Materials Research Bulletin, 2011, 46, 1107-1112.	2.7	95
62	Zinc oxide/carboxylic acid lamellar structures. Materials Research Bulletin, 2011, 46, 2191-2195.	2.7	19
63	Photo-catalytic activity of Zn _{1-x} Mn _x S nanocrystals synthesized by wet chemical technique. Nanoscale Research Letters, 2011, 6, 438.	3.1	23
64	Enhanced photocatalytic activity of hierarchical ZnO nanoplate-nanowire architecture as environmentally safe and facilely recyclable photocatalyst. Nanoscale, 2011, 3, 5020.	2.8	148
65	Catalyst efficiency, photostability and reusability study of ZnO nanoparticles in visible light for dye degradation. Journal of Physics and Chemistry of Solids, 2011, 72, 60-66.	1.9	60
66	Photocatalytic degradation of E.coli membrane cell in the presence of ZnO nanowires. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 222-225.	0.4	19
67	Control Over the Crystallinity and Defect Chemistry of YVO ₄ Nanocrystals for Optimum Photocatalytic Property. European Journal of Inorganic Chemistry, 2011, 2011, 2211-2220.	1.0	61
68	Influence of physicochemical "electronic properties of transition metal ion doped polycrystalline titania on the photocatalytic degradation of Indigo Carmine and 4-nitrophenol under UV/solar light. Applied Surface Science, 2011, 257, 2779-2790.	3.1	73
69	Photoluminescence and photocatalysis of the flower-like nano-ZnO photocatalysts prepared by a facile hydrothermal method with or without ultrasonic assistance. Applied Catalysis B: Environmental, 2011, 105, 335-345.	10.8	253
70	Microbundles of zinc oxide nanorods: Assembly in ionic liquid [EMIM] ⁺ [BF ₄] ⁻ , photoluminescence and photocatalytic properties. Journal of Solid State Chemistry, 2011, 184, 720-724.	1.4	10
71	Facile synthesis of ZnO nanorod arrays and hierarchical nanostructures for photocatalysis and gas sensor applications. Journal of Hazardous Materials, 2011, 192, 730-740.	6.5	186
72	Visible photocatalytic properties of vanadium doped zinc oxide aerogel nanopowder. Thin Solid Films, 2011, 519, 5792-5795.	0.8	55

#	ARTICLE	IF	CITATIONS
73	Defect induced variation in vibrational and optoelectronic properties of nanocrystalline ZnO powders. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	28
74	NOVEL AND EFFICIENT THREE DIMENSIONAL MESOPOROUS ZnO NANOASSEMBLIES FOR ENVIRONMENTAL REMEDIATION. <i>International Journal of Nanoscience</i> , 2011, 10, 1001-1005.	0.4	41
75	Photodissolution Suppression and Photocatalytic Activity Improvement through Crystallinity Improvement of ZnO Nanocrystalline Thin Films. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FG04.	0.8	1
76	Tailoring the charge carrier dynamics in ZnO nanowires: the role of surface hole/electron traps. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3075.	1.3	56
77	Room-temperature synthesis of pompon-like ZnO hierarchical structures and their enhanced photocatalytic properties. <i>Research on Chemical Intermediates</i> , 2012, 38, 1579-1589.	1.3	15
78	Effects of Morphology and Zr Doping on Structural, Optical, and Photocatalytic Properties of ZnO Nanostructures. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 16333-16345.	1.8	93
79	Synthesis of snowflake-like multi-layered ZnO with controllable pore sizes and its photocatalytic property. <i>Applied Surface Science</i> , 2012, 258, 3604-3610.	3.1	11
80	Preparation, characterization and photocatalytic activity of porous zinc oxide superstructure. <i>Materials Science in Semiconductor Processing</i> , 2012, 15, 270-276.	1.9	24
81	Controllable synthesis and enhanced photocatalytic properties of Cu ₂ O/Cu ₃₁ S ₁₆ composites. <i>Materials Research Bulletin</i> , 2012, 47, 2631-2637.	2.7	16
82	An ambient condition, one pot route for large scale production of ultrafine (< 15 nm) ZnO nanowires from commercial zinc exhibiting excellent recyclable catalytic performance: Approach extendable to CuO nanostructures. <i>CrystEngComm</i> , 2012, 14, 640-647.	1.3	27
83	Oxygen Vacancy Induced Band-Gap Narrowing and Enhanced Visible Light Photocatalytic Activity of ZnO. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4024-4030.	4.0	1,269
84	In situ Generation of Well-Dispersed ZnO Quantum Dots on Electrospun Silica Nanotubes with High Photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 785-790.	4.0	63
85	Nanoscaled ZnO films used as enhanced substrates for fluorescence detection of dyes. <i>Chinese Physics B</i> , 2012, 21, 037803.	0.7	9
86	Three dimensional koosh ball nanoarchitecture with a tunable magnetic core, fluorescent nanowire shell and enhanced photocatalytic property. <i>Journal of Materials Chemistry</i> , 2012, 22, 6862.	6.7	22
87	Solid-State Thermolysis of Anion Induced Metal-Organic Frameworks to ZnO Microparticles with Predefined Morphologies: Facile Synthesis and Solar Cell Studies. <i>Crystal Growth and Design</i> , 2012, 12, 2572-2578.	1.4	53
88	Single-step synthesis of core-shell ZnO microspheres. <i>Micro and Nano Letters</i> , 2012, 7, 134.	0.6	0
89	Facile One-Pot Synthesis of ZnO/SnO ₂ Heterojunction Photocatalysts with Excellent Photocatalytic Activity and Photostability. <i>ChemPlusChem</i> , 2012, 77, 217-223.	1.3	16
90	Synthesis, characterization and photocatalytic performance of novel visible-light-induced Ag/BiOI. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 271-279.	10.8	253

#	ARTICLE	IF	CITATIONS
91	Hydrothermal synthesis of urchin-like ZnO and ZnO/ZnS heterogeneous architectures. <i>Micro and Nano Letters</i> , 2012, 7, 29.	0.6	1
92	Synthesis, strong room-temperature PL and photocatalytic activity of ZnO/ZnWO ₄ rod-like nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 645-651.	1.7	27
93	Influence of growth parameters on texture of ZnO nanorods by using electrochemical deposition at low temperatures. <i>Solid State Ionics</i> , 2012, 209-210, 43-50.	1.3	11
94	Synthesis and photocatalytic application of oriented hierarchical ZnO flower-rod architectures. <i>Journal of Hazardous Materials</i> , 2012, 217-218, 100-106.	6.5	126
95	Photocatalytic activities of multilayered ZnO-based thin films prepared by sol-gel route: effect of SnO ₂ heterojunction layer. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 65, 178-188.	1.1	9
96	Photocatalytic activity of flower-like ZnO derived by a d-glucose-assisted sonochemical method. <i>Research on Chemical Intermediates</i> , 2013, 39, 1545-1553.	1.3	5
97	Photocatalytical removal of inorganic and organic arsenic species from aqueous solution using zinc oxide semiconductor. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 653-659.	1.6	41
98	Microwave synthesis of cellulose/CuO nanocomposites in ionic liquid and its thermal transformation to CuO. <i>Carbohydrate Polymers</i> , 2013, 91, 162-168.	5.1	38
99	Effect of inorganic shells on luminescence properties of ZnS:Ag nanoparticles. <i>Journal of Materials Science</i> , 2013, 48, 4952-4961.	1.7	9
100	Oxygen vacancy induced band gap narrowing of ZnO nanostructures by an electrochemically active biofilm. <i>Nanoscale</i> , 2013, 5, 9238.	2.8	523
101	Photocatalytic Nanooxides: The Case of TiO ₂ and ZnO. , 2013, , 245-266.		2
102	Rapid room-temperature synthesis of nanosheet-assembled ZnO mesocrystals with excellent photocatalytic activity. <i>CrystEngComm</i> , 2013, 15, 754-763.	1.3	71
103	Hydrothermal Synthesis of Mesoporous Bi ₂ O ₃ /Co ₃ O ₄ Microsphere and Photocatalytic Degradation of Orange II Dyes by Visible Light. <i>Topics in Catalysis</i> , 2013, 56, 623-629.	1.3	34
104	Microstructure, growth process and enhanced photocatalytic activity of immobilized hierarchical ZnO nanostructures. <i>RSC Advances</i> , 2013, 3, 21666.	1.7	24
105	Defect and its dominance in ZnO films: A new insight into the role of defect over photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 736-743.	10.8	88
106	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
107	Pure and Mg-doped self-assembled ZnO nano-particles for the enhanced photocatalytic degradation of 4-chlorophenol. <i>Journal of Environmental Sciences</i> , 2013, 25, 2157-2167.	3.2	54
108	Photodegradation of methyl orange with PANI-modified BiOCl photocatalyst under visible light irradiation. <i>Applied Surface Science</i> , 2013, 283, 577-583.	3.1	115

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109	Size-controlled fabrication of ZnO micro/nanorod arrays and their photocatalytic performance. <i>Materials Chemistry and Physics</i> , 2013, 141, 929-935.	2.0	20
110	Enhanced photocatalytic activity of zinc oxide synthesized by calcination of zinc sulfide precursor. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 489-494.	1.9	19
111	Hydrothermal synthesis of zinc oxide nanoparticles using rice as soft biotemplate. <i>Chemistry Central Journal</i> , 2013, 7, 136.	2.6	111
112	Comparative studies on influence of morphology and La doping on structural, optical, and photocatalytic properties of zinc oxide nanostructures. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 215-224.	5.0	39
113	Enhanced photocatalytic degradation of rhodamine B by surface modification of ZnO with copper (II) porphyrin under both UV-vis and visible light irradiation. <i>Journal of Molecular Catalysis A</i> , 2013, 366, 84-91.	4.8	106
114	Ultraviolet to visible-light range photocatalytic activity of ZnO films prepared using sol-gel method: The influence of solvent. <i>Thin Solid Films</i> , 2013, 527, 50-58.	0.8	24
115	Synergism of oxygen vacancy and carbonaceous species on enhanced photocatalytic activity of electrospun ZnO-carbon nanofibers: Charge carrier scavengers mechanism. <i>Applied Catalysis A: General</i> , 2013, 466, 153-160.	2.2	89
116	Effect of starting properties and annealing on photocatalytic activity of ZnO nanoparticles. <i>Applied Surface Science</i> , 2013, 283, 914-923.	3.1	17
117	Performance Enhancement of ZnO Photocatalyst via Synergic Effect of Surface Oxygen Defect and Graphene Hybridization. <i>Langmuir</i> , 2013, 29, 3097-3105.	1.6	452
118	Synthesis of ZnO/Ag/graphene composite and its enhanced photocatalytic efficiency. <i>Materials Research Bulletin</i> , 2013, 48, 2066-2070.	2.7	61
119	Synthesis and photocatalytic application of Au/Ag nanoparticle-sensitized ZnO films. <i>Applied Surface Science</i> , 2013, 273, 82-88.	3.1	85
120	Origin of enhanced photocatalytic activity and photoconduction in high aspect ratio ZnO nanorods. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10795.	1.3	127
121	Controllable synthesis of ZnO nanoparticles and their morphology-dependent antibacterial and optical properties. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 120, 66-73.	1.7	412
122	Visible-light-sensitive Na-doped p-type flower-like ZnO photocatalysts synthesized via a continuous flow microreactor. <i>RSC Advances</i> , 2013, 3, 12702.	1.7	47
123	Nylon Fibers as Template for the Controlled Growth of Highly Oriented Single Crystalline ZnO Nanowires. <i>Crystal Growth and Design</i> , 2013, 13, 2680-2686.	1.4	39
124	Native Defects in ZnO: Effect on Dye Adsorption and Photocatalytic Degradation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12218-12228.	1.5	133
125	Visible-light-sensitive nanoscale Au-ZnO photocatalysts. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	35
126	Tuning Physical and Optical Properties of ZnO Nanowire Arrays Grown on Cotton Fibers. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6237-6246.	4.0	91

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127	The exceptional photo-catalytic activity of ZnO/RGO composite via metal and oxygen vacancies. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 442-449.	10.8	70
128	Zn ₅ (OH) ₈ Cl ₂ ·H ₂ O sheets formed using cellulose as matrix via microwave-assisted method and its transformation to ZnO. <i>Materials Letters</i> , 2013, 92, 136-138.	1.3	18
129	Solvothermal synthesis of gamma aluminas and their structural evolution. <i>Microporous and Mesoporous Materials</i> , 2013, 167, 137-145.	2.2	27
130	Synthesis, characterization and photocatalytic recital of nest-like zinc oxide photocatalyst. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 2001-2006.	1.2	9
131	Defect-enhanced Photocatalytic Activity of ZnO Micro/nanostructures. <i>Chinese Journal of Chemistry</i> , 2013, 31, 1557-1563.	2.6	3
132	Effect of Hydrothermal Reaction Conditions on the Sizes and Morphologies of ZnO Nanorods. <i>Advanced Materials Research</i> , 2013, 765-767, 3170-3175.	0.3	2
133	Influence of defects in ZnO nanomaterials on the performance of dye-sensitized solar cell and photocatalytic activity. , 2013, , .		0
134	Annealing Effect of ZnO Seed Layer on Enhancing Photocatalytic Activity of ZnO/TiO ₂ Nanostructure. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-7.	1.4	11
135	Photocatalytic Activity and Selectivity of ZnO Materials in the Decomposition of Organic Compounds. <i>ChemCatChem</i> , 2013, 5, 3841-3846.	1.8	23
136	Functional Oxide Nanomaterials and Nanocomposites for the Removal of Heavy Metals and Dyes. <i>Nanomaterials and Nanotechnology</i> , 2013, 3, 20.	1.2	102
137	The Effect of oxygen defects on Activity of Au/ZnO Catalyst in Low Temperature Oxidation of Benzyl Alcohol. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1675, 71-77.	0.1	0
138	First-principles study of electronic structure and optical properties of (Zr-Al)-codoped ZnO. <i>Computational Materials Science</i> , 2014, 82, 70-75.	1.4	34
139	Enhanced photocatalytic activity of Ce-doped ZnO nanorods under UV and visible light. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1954-1963.	2.7	77
140	Characterization and catalytic performance of copper-based WGS catalysts derived from copper ferrite. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 6424-6432.	3.8	57
141	Sol-gel assisted hydrothermal synthesis of ZnO microstructures: Morphology control and photocatalytic activity. <i>Advanced Powder Technology</i> , 2014, 25, 372-378.	2.0	80
142	Influence of Al doping on microstructural, optical and photocatalytic properties of sol-gel based nanostructured zinc oxide films on glass. <i>RSC Advances</i> , 2014, 4, 11552-11563.	1.7	77
143	Synthesis and characterization of Cr-doped ZnO nanorod-array photocatalysts with improved activity. <i>Journal of Solid State Chemistry</i> , 2014, 214, 101-107.	1.4	66
144	Visible-light photocatalysis of ZnO deposited on nanoporous Au. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 1061-1066.	1.1	4

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145	Ambient ultrasonic-assisted synthesis, stepwise growth mechanisms, and photocatalytic activity of flower-like nanostructured ZnO and Ag/ZnO. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	19
146	Palladium supported on zinc oxide nanoparticles: Synthesis, characterization, and application as heterogeneous catalyst for Mizoroki-Heck and Sonogashira reactions under ligand-free and air atmosphere conditions. <i>Applied Catalysis A: General</i> , 2014, 475, 477-486.	2.2	51
147	Photo-degradation of organic dye by zinc oxide nanosystems with special defect structure: Effect of the morphology and annealing temperature. <i>Applied Catalysis A: General</i> , 2014, 472, 198-204.	2.2	33
149	ZnO Nano Reactor on Textiles and Polymers: Ex Situ and In Situ Synthesis, Application, and Characterization. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1453-1470.	1.2	112
150	Probing Surface Structure Quality of ZnO Nanorods by Second Harmonic Generation. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 789-792.	1.3	8
151	A green process for efficient lignin (biomass) degradation and hydrogen production via water splitting using nanostructured C, N, S-doped ZnO under solar light. <i>RSC Advances</i> , 2014, 4, 60626-60635.	1.7	64
152	Stable yellow ZnO mesocrystals with efficient visible-light photocatalytic activity. <i>CrystEngComm</i> , 2014, 16, 7906-7913.	1.3	60
153	Ethylenediamine-modulated synthesis of highly monodisperse copper sulfide microflowers with excellent photocatalytic performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20004-20009.	5.2	56
154	Ultra-rapid formation of ZnO hierarchical structures from dilution-induced supersaturated solutions. <i>CrystEngComm</i> , 2014, 16, 7115-7123.	1.3	36
155	Nickel oxide thin film from electrodeposited nickel sulfide thin film: peroxide sensing and photo-decomposition of phenol. <i>Dalton Transactions</i> , 2014, 43, 13096-13104.	1.6	39
156	Plasmon-mediated, highly enhanced photocatalytic degradation of industrial textile dyes using hybrid ZnO@Ag core-shell nanorods. <i>RSC Advances</i> , 2014, 4, 58930-58940.	1.7	127
157	Ionic liquid-based solvent-induced shape-tunable small-sized ZnO nanostructures with interesting optical properties and photocatalytic activities. <i>RSC Advances</i> , 2014, 4, 5055.	1.7	21
158	Splitting growth of novel CuO straw sheaves and their improved photocatalytic activity due to exposed active {110} facets and crystallinity. <i>CrystEngComm</i> , 2014, 16, 2417-2423.	1.3	47
159	Defects in Chemically Synthesized and Thermally Processed ZnO Nanorods: Implications for Active Layer Properties in Dye-Sensitized Solar Cells. <i>Inorganic Chemistry</i> , 2014, 53, 3961-3972.	1.9	49
160	Morphology control, defect engineering and photoactivity tuning of ZnO crystals by graphene oxide - a unique 2D macromolecular surfactant. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5589.	1.3	124
161	Facile synthesis of Ag-ZnO hybrid nanospindles for highly efficient photocatalytic degradation of methyl orange. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17560.	1.3	144
162	Single Step Integration of ZnO Nano- and Microneedles in Si Trenches by Novel Flame Transport Approach: Whispering Gallery Modes and Photocatalytic Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7806-7815.	4.0	156
163	Improving the photocatalytic activity and anti-photocorrosion of semiconductor ZnO by coupling with versatile carbon. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16891.	1.3	374

#	ARTICLE	IF	CITATIONS
164	Novel 3D flowerlike Au/BiOBr _{0.2} IO _{0.8} composites with highly enhanced visible-light photocatalytic performances. Separation and Purification Technology, 2014, 133, 343-350.	3.9	19
165	Effects of morphology, surface area, and defect content on the photocatalytic dye degradation performance of ZnO nanostructures. RSC Advances, 2014, 4, 41099-41110.	1.7	189
166	Effect of Plasma Treatment on Native Defects and Photocatalytic Activities of Zinc Oxide Tetrapods. Journal of Physical Chemistry C, 2014, 118, 22760-22767.	1.5	27
167	Synergistic Effect in Polyaniline-Hybrid Defective ZnO with Enhanced Photocatalytic Activity and Stability. Journal of Physical Chemistry C, 2014, 118, 9570-9577.	1.5	111
168	Influence of Defects on the Photocatalytic Activity of ZnO. Journal of Physical Chemistry C, 2014, 118, 15300-15307.	1.5	361
169	New Insights into the Mechanism of ZnO Formation from Aqueous Solutions of Zinc Acetate and Zinc Nitrate. Chemistry of Materials, 2014, 26, 4119-4129.	3.2	91
170	ZnO@S-doped ZnO core/shell nanocomposites for highly efficient solar water splitting. Journal of Power Sources, 2014, 269, 24-30.	4.0	22
171	Shape-Dependent Charge Transfers in Crystalline ZnO Photocatalysts: Rods versus Plates. Journal of Physical Chemistry C, 2014, 118, 21331-21338.	1.5	43
172	Enhanced photocatalytic activity of homoassembled ZnO nanostructures on electrospun polymeric nanofibers: A combination of atomic layer deposition and hydrothermal growth. Applied Catalysis B: Environmental, 2014, 156-157, 173-183.	10.8	89
174	Photodegradation of rhodamine B with MoS ₂ /Bi ₂ O ₂ CO ₃ composites under UV light irradiation. Applied Surface Science, 2014, 313, 537-544.	3.1	85
175	Facile synthesis of porous single crystalline ZnO nanoplates and their application in photocatalytic reduction of Cr(VI) in the presence of phenol. Journal of Hazardous Materials, 2014, 276, 400-407.	6.5	96
176	Degradation of Rhodamine B Dye by TiO ₂ Nanotubes Photocatalyst Synthesized via Alkaline Hydrothermal Method. MATEC Web of Conferences, 2015, 27, 03004.	0.1	4
177	Preparation of BiOBr by solvothermal routes with different solvents and their photocatalytic activity. Journal of Renewable and Sustainable Energy, 2015, 7, 063120.	0.8	17
178	Antimicrobial Activity of Pd-Doped ZnO Sol-Gel-Derived Films. International Journal of Applied Ceramic Technology, 2015, 12, 1088-1095.	1.1	2
179	Production and Photoelectric Activity of P and Al Co-Doped ZnO Nanomaterials. European Journal of Inorganic Chemistry, 2015, 2015, 3708-3714.	1.0	15
180	Tuning the luminescence and UV photosensing properties of ZnO nanorods by strategic aqueous chemical growth. Materials Research Express, 2015, 2, 105008.	0.8	7
181	Correlation of Defect-Related Optoelectronic Properties in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Zn} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle 5 \langle \text{mml:mtext} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{OH} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50}$		

#	ARTICLE	IF	CITATIONS
183	Enhanced visible-light photocatalytic activity of Z-scheme graphitic carbon nitride/oxygen vacancy-rich zinc oxide hybrid photocatalysts. <i>Chinese Journal of Catalysis</i> , 2015, 36, 2135-2144.	6.9	134
184	Controllable synthesis and change of emission color from green to orange of ZnO quantum dots using different solvents. <i>New Journal of Chemistry</i> , 2015, 39, 2881-2888.	1.4	50
185	Facile synthesis of Fe_2O_3 nanodisk with superior photocatalytic performance and mechanism insight. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 014801.	2.8	63
186	The enhanced photocatalytic activity of Zn^{2+} doped TiO_2 for hydrogen generation under artificial sunlight irradiation prepared by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 341-349.	1.1	12
187	Room Temperature Ferromagnetism of Magnetically Recyclable Photocatalyst of $\text{Cu}_1 \times \text{Mn}_x \text{Fe}_2\text{O}_4\text{-TiO}_2$ (0.0 $\leq x \leq$ 0.5) Nanocomposites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 1783-1795.	0.8	105
188	ZnO-dotted porous ZnS cluster microspheres for high efficient, Pt-free photocatalytic hydrogen evolution. <i>Scientific Reports</i> , 2015, 5, 8858.	1.6	34
189	Insight into the Mechanism of Antibacterial Activity of ZnO: Surface Defects Mediated Reactive Oxygen Species Even in the Dark. <i>Langmuir</i> , 2015, 31, 9155-9162.	1.6	494
190	Morphology controlled synthesis of Sm doped ZnO nanostructures for photodegradation studies of Acid Blue 113 under UV-A light. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8784-8792.	1.1	5
191	Enhancement of photocatalytic properties of transitional metal oxides using conducting polymers: A mini review. <i>Materials Research Bulletin</i> , 2015, 71, 75-90.	2.7	107
192	Photocatalytic H_2 generation from aqueous ammonia solution using ZnO photocatalysts prepared by different methods. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8530-8538.	3.8	34
193	Thermodynamic Study of Interactions Between ZnO and ZnO Binding Peptides Using Isothermal Titration Calorimetry. <i>Langmuir</i> , 2015, 31, 6814-6822.	1.6	30
194	A comprehensive secondary ion mass spectrometry analysis of ZnO nanowalls: Correlation to photocatalytic responses. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	9
195	One-pot facile synthesis of branched Ag-ZnO heterojunction nanostructure as highly efficient photocatalytic catalyst. <i>Applied Surface Science</i> , 2015, 353, 949-957.	3.1	45
196	Simple Growth of Faceted Au@ZnO Hetero-nanostructures on Silicon Substrates (Nanowires and Tj ETQq1 1 0.784314 rgBT /Overl... Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9486-9496.	4.0	38
197	Synthesis and characterization of novel PPy/Bi ₂ O ₂ CO ₃ composite with improved photocatalytic activity for degradation of Rhodamine-B. <i>Journal of Alloys and Compounds</i> , 2015, 637, 127-132.	2.8	51
198	Synthesis, characterization and thermoreactivity of some methylcellulose-zinc composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 120, 85-94.	2.0	4
199	A versatile solution-phase, precursor route to surface-mazelike hierarchical structures. <i>Science China Chemistry</i> , 2015, 58, 620-626.	4.2	0
200	Superhydrophobic polymethylsilsesquioxane pinned one dimensional ZnO nanostructures for water remediation through photo-catalysis. <i>RSC Advances</i> , 2015, 5, 45897-45907.	1.7	40

#	ARTICLE	IF	CITATIONS
201	Magneto-Optical and Photocatalytic Properties of Magnetically Recyclable $Mn_xZn_{1-x}S$ ($x = 0.0, 0.3$). <i>Tj ETQq0 0 0 rgBT /Overlock 10</i>	0.8	59
202	Morphogenesis of ZnO nanostructures: role of acetate ($COOH$) and nitrate (NO_3) ligand donors from zinc salt precursors in synthesis and morphology dependent photocatalytic properties. <i>RSC Advances</i> , 2015, 5, 38801-38809.	1.7	69
203	Surfactant-assisted ZnO thin films prepared by sol-gel dip coating for applied antibacterial coatings: a comparative study with solvothermal-derived ZnO powders. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 383-396.	1.1	6
204	Leucas aspera mediated multifunctional CeO_2 nanoparticles: Structural, photoluminescent, photocatalytic and antibacterial properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 452-462.	2.0	104
205	Synthesis and enhanced photoreactivity of metallic Bi-decorated $BiOBr$ composites with abundant oxygen vacancies. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 10002-10011.	1.1	21
206	Recent advances in low temperature, solution processed morphology tailored ZnO nanoarchitectures for electron emission and photocatalysis applications. <i>CrystEngComm</i> , 2015, 17, 9264-9295.	1.3	93
207	Sunlight assisted photodegradation by tin oxide quantum dots. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 87, 244-252.	1.9	6
208	Tartaric acid assisted hydrothermal synthesis of different flower-like ZnO hierarchical architectures with tunable optical and oxygen vacancy-induced photocatalytic properties. <i>Applied Surface Science</i> , 2015, 357, 516-529.	3.1	60
209	Synthesis of Eu^{3+} -activated ZnO superstructures: Photoluminescence, Judd-Ofelt analysis and Sunlight photocatalytic properties. <i>Journal of Molecular Catalysis A</i> , 2015, 409, 26-41.	4.8	42
210	Charge Redistribution and Extraction in Photocatalytically Synthesized $Au-ZnO$ Nanohybrids. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21704-21710.	1.5	19
211	Effect of cetylpyridinium chloride on surface passivation and photocatalytic activity of ZnO nanostructures. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1346-1355.	3.3	13
212	Supramolecular photocatalytic activity of porous $Mn-ZnO$ nanomaterials with exposed $\{001\}$ facets and a charge separation model between polar (001) and (111) facets. <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 312 Td (xmlns:mml="http://www.wileyonlinelibrary.com/journals/doi/10.1002/anie.201509000")</i>	6.6	48
213	Vacuum heat treated titanate nanotubes for visible-light photocatalysis. <i>New Journal of Chemistry</i> , 2015, 39, 1281-1286.	1.4	9
214	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
215	Zinc oxide based photocatalysis: tailoring surface-bulk structure and related interfacial charge carrier dynamics for better environmental applications. <i>RSC Advances</i> , 2015, 5, 3306-3351.	1.7	673
216	A Novel One-Pot Combustion Synthesis and Opto-magnetic Properties of Magnetically Separable Spinel $Mn_xMg_{1-x}Fe_2O_4$ ($0.0 \leq x \leq 0.5$) Nanophotocatalysts. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 1405-1416.	0.8	138
217	Direct hydrogenation and one-pot reductive amidation of nitro compounds over Pd/ZnO nanoparticles as a recyclable and heterogeneous catalyst. <i>Applied Surface Science</i> , 2015, 324, 265-274.	3.1	21
218	Solution grown ZnO rods: Synthesis, characterization and defect mediated photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 128-138.	10.8	104

#	ARTICLE	IF	CITATIONS
219	Biopolymer starch mediated synthetic route of multi-spheres and donut ZnO structures. Carbohydrate Polymers, 2015, 115, 285-293.	5.1	42
220	Effect of aspect ratio and surface defects on the photocatalytic activity of ZnO nanorods. Scientific Reports, 2014, 4, 4596.	1.6	761
221	The effect of phase structures on the near-infrared photocatalytic activity of NaYF ₄ :Yb ³⁺ , Tm ³⁺ /ZnO nanocomposites. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 297, 14-19.	2.0	12
222	Visible-light-active ZnO via oxygen vacancy manipulation for efficient formaldehyde photodegradation. Chemical Engineering Journal, 2015, 262, 260-267.	6.6	104
223	High performance Ce-doped ZnO nanorods for sunlight-driven photocatalysis. Beilstein Journal of Nanotechnology, 2016, 7, 1338-1349.	1.5	65
224	Synthesis of ZnO micro-flowers assisted by a plant-mediated strategy. Journal of Chemical Technology and Biotechnology, 2016, 91, 1493-1504.	1.6	13
225	Well-dispersed nebula-like ZnO/CeO ₂ @HNTs heterostructure for efficient photocatalytic degradation of tetracycline. Chemical Engineering Journal, 2016, 304, 917-933.	6.6	142
226	Grain boundary engineering in electrospun ZnO nanostructures as promising photocatalysts. CrystEngComm, 2016, 18, 6341-6351.	1.3	57
227	A GdAlO ₃ Perovskite Oxide Electrolyte-Based NO _x Solid-State Sensor. Scientific Reports, 2016, 6, 37795.	1.6	18
228	A new Bi-based visible-light-sensitive photocatalyst BiLa _{1.4} Ca _{0.6} O _{4.2} : crystal structure, optical property and photocatalytic activity. Scientific Reports, 2016, 6, 23235.	1.6	17
229	Self-Doped ZnO Microrods as High Temperature Stable Oxygen Deficient Platforms for Solar Photocatalysis. Industrial & Engineering Chemistry Research, 2016, 55, 6413-6421.	1.8	67
230	ZnO nanowires coated stainless steel meshes as hierarchical photocatalysts for catalytic photodegradation of four kinds of organic pollutants. Journal of Alloys and Compounds, 2016, 678, 137-146.	2.8	42
231	Co ²⁺ and Ho ³⁺ doped CuS nanocrystals with improved photocatalytic activity under visible light irradiation. RSC Advances, 2016, 6, 42581-42588.	1.7	40
232	Photocatalytic evaluation of Hemin (chloro(protoporphyrinato)iron(III)) anchored ZnO hetero-aggregate system under UV/solar light irradiation: A surface modification method. Surfaces and Interfaces, 2016, 1-3, 52-58.	1.5	11
233	The effect of growth conditions and vacancies on the electronic, optical and photocatalytic properties of the ZnO. Materials Chemistry and Physics, 2016, 182, 200-207.		
234	Photocatalysis of C, N-doped ZnO derived from ZIF-8 for dye degradation and water oxidation. RSC Advances, 2016, 6, 95903-95909.	1.7	79
235	Characterization and photoelectrochemical performance of Zn-doped TiO ₂ films by sol-gel method. Transactions of Nonferrous Metals Society of China, 2016, 26, 2109-2116.	1.7	34
236	Dilute manganese-doped ZnO nanowires for high photoelectrical performance. RSC Advances, 2016, 6, 91216-91224.	1.7	7

#	ARTICLE	IF	CITATIONS
237	Highly nonlinear varistors from oxygen-deficient zinc oxide thin films by hot-dipping in Bi ₂ O ₃ : Influence of temperature. <i>Applied Surface Science</i> , 2016, 390, 92-99.	3.1	13
238	Synthesis and their photocatalytic properties of Ni-doped ZnO hollow microspheres. <i>Journal of Materials Research</i> , 2016, 31, 2317-2328.	1.2	27
239	Synthesis and microstructure-dependent photoactivated properties of three-dimensional cadmium sulfide crystals. <i>Journal of Alloys and Compounds</i> , 2016, 688, 769-775.	2.8	9
240	Core-shell CuO-ZnO p-n heterojunction with high specific surface area for enhanced photoelectrochemical (PEC) energy conversion. <i>Solar Energy</i> , 2016, 136, 327-332.	2.9	47
241	Preparation, Microwave Absorption and Infrared Emissivity of Ni-doped ZnO/Al Powders by Coprecipitation Method in the GHz Range. <i>Nano</i> , 2016, 11, 1650047.	0.5	20
242	Coprecipitation Synthesis of Fe-doped ZnO Powders with Enhanced Microwave Absorption Properties. <i>Nano</i> , 2016, 11, 1650136.	0.5	9
243	Effect of synthesis conditions on the growth of various ZnO nanostructures and corresponding morphology-dependent photocatalytic activities. <i>Superlattices and Microstructures</i> , 2016, 100, 907-917.	1.4	20
244	Chemical precipitation synthesis and significant enhancement in photocatalytic activity of Ce-doped ZnO nanoparticles. <i>Ceramics International</i> , 2016, 42, 14175-14181.	2.3	77
245	Nanostructured ZnO photocatalysts prepared via surfactant assisted Co-Precipitation method achieving enhanced photocatalytic activity for the degradation of methylene blue dyes. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 3177-3184.	3.3	71
246	Morphological tuned preparation of zinc oxide: reduced graphene oxide composites for non-enzymatic fluorescence glucose sensing and enhanced photocatalysis. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	8
247	ZnO Seed Layers Prepared by DC Reactive Magnetron Sputtering to be Applied as Electrodeposition Substrates. <i>Journal of the Electrochemical Society</i> , 2016, 163, H697-H704.	1.3	4
248	Template free synthesis, characterization and application of nano ZnO rods for the photocatalytic decolourization of methyl orange. <i>Journal of Water Process Engineering</i> , 2016, 12, 1-7.	2.6	5
249	Defect-induced enhanced photocatalytic activities of reduced Fe ₂ O ₃ nanoblades. <i>Nanotechnology</i> , 2016, 27, 295703.	1.3	17
250	Potato extract as reducing agent and stabiliser in a facile green one-step synthesis of ZnO nanoparticles. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 175-184.	1.3	94
251	Comparative studies of the photocatalytic and microwave assisted degradation of alizarin red using ZnO/poly(1-naphthylamine) nanohybrids. <i>Journal of Molecular Liquids</i> , 2016, 216, 259-267.	2.3	37
253	ZnO rods/reduced graphene oxide composites prepared via a solvothermal reaction for efficient sunlight-driven photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2016, 185, 11-21.	10.8	361
254	Defect-rich ZnO nanosheets of high surface area as an efficient visible-light photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2016, 192, 8-16.	10.8	231
255	Eco-friendly synthesis of ZnO nanoparticles with different morphologies and their visible light photocatalytic performance for the degradation of Rhodamine B. <i>Ceramics International</i> , 2016, 42, 10259-10265.	2.3	116

#	ARTICLE	IF	CITATIONS
256	Hollow microspheres Mg-doped ZrO ₂ nanoparticles: Green assisted synthesis and applications in photocatalysis and photoluminescence. <i>Journal of Alloys and Compounds</i> , 2016, 672, 609-622.	2.8	101
257	Reactive Force Field Modeling of Zinc Oxide Nanoparticle Formation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2950-2961.	1.5	14
258	Synthesis of defect-rich, (001) faceted-ZnO nanorod on a FTO substrate as efficient photocatalysts for dehydrogenation of isopropanol to acetone. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 93, 73-78.	1.9	13
259	Surface plasmon enhanced near-UV emission in monodispersed ZnO:Ag core-shell type nanoparticles synthesized by a wet chemical method. <i>Superlattices and Microstructures</i> , 2016, 91, 8-21.	1.4	21
260	Recent progress on doped ZnO nanostructures for visible-light photocatalysis. <i>Thin Solid Films</i> , 2016, 605, 2-19.	0.8	560
261	Magnetically Separable Mn _x Zn _{1-x} Fe ₂ O ₄ ; (0.0 ≤ x ≤ 0.5) Nanostructures: Structural, Morphological, Opto-Magnetic, and Photocatalytic Properties. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2016, 46, 1277-1297.	0.6	6
262	La-doped ZnO nanoflower as photocatalyst for methylene blue dye degradation under UV irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 2367-2378.	1.1	58
263	Hybrid materials of ZnO nanostructures with reduced graphene oxide and gold nanoparticles: enhanced photodegradation rates in relation to their composition and morphology. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1478-1486.	1.3	49
264	Mesoporous CuO-ZnO heterojunction based nanocomposites with high specific surface area for enhanced photocatalysis and electrochemical sensing. <i>Catalysis Science and Technology</i> , 2016, 6, 3238-3252.	2.1	104
265	Synthesis and photocatalytic performance of ZnO hollow spheres and porous nanosheets. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 203-209.	1.1	13
266	Effects of Ba doping on structural, morphological, optical, and photocatalytic properties of self-assembled ZnO nanospheres. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 729-741.	2.1	27
267	Recent developments of zinc oxide based photocatalyst in water treatment technology: A review. <i>Water Research</i> , 2016, 88, 428-448.	5.3	1,760
268	An Efficient Approach Towards the Photodegradation of Indigo Carmine by Introducing ZnO/CuO/Si Ternary Nanocomposite as Photocatalyst. <i>Journal of the Institution of Engineers (India): Series D</i> , 2017, 98, 1-8.	0.6	5
269	Enhanced photocatalytic activity of calcined natural sphalerite under visible light irradiation. <i>Journal of Materials Research and Technology</i> , 2017, 6, 1-6.	2.6	13
270	Photostability and visible-light-driven photoactivity enhancement of hierarchical ZnS nanoparticles: The role of embedment of stable defect sites on the catalyst surface with the assistant of ultrasonic waves. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 78-89.	3.8	69
271	Correlation between photoluminescence spectra with gas sensing and photocatalytic activities in hierarchical ZnO nanostructures. <i>RSC Advances</i> , 2017, 7, 9826-9832.	1.7	34
272	Oxygen defects-mediated Z-scheme charge separation in g-C ₃ N ₄ /ZnO photocatalysts for enhanced visible-light degradation of 4-chlorophenol and hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 406-416.	10.8	333
273	Improved visible-light photocatalytic activity in ZnTiO ₃ nanopowder prepared by sol-electrospinning. <i>Solar Energy Materials and Solar Cells</i> , 2017, 163, 148-156.	3.0	64

#	ARTICLE	IF	CITATIONS
274	Facile synthesis of highly crystalline ZnO nanorods with controlled aspect ratios and their optical properties. <i>CrystEngComm</i> , 2017, 19, 1454-1458.	1.3	18
275	Morphological, structural and optical properties of ZnO thin solid films formed by nanoleafs or micron/submicron cauliflowers. <i>Journal of Luminescence</i> , 2017, 185, 306-315.	1.5	5
276	Effect of Silver on Plasmonic, Photocatalytic, and Cytotoxicity of Gold in AuAgZnO Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9077-9088.	1.5	28
277	Pd nanocube decoration onto flexible nanofibrous mats of core-shell polymer-ZnO nanofibers for visible light photocatalysis. <i>New Journal of Chemistry</i> , 2017, 41, 4145-4156.	1.4	21
278	Highly efficient and visible light driven Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ @PANI modified BiOCl heterocomposite catalyst for water remediation. <i>Applied Catalysis B: Environmental</i> , 2017, 211, 305-322.	10.8	41
279	High-performance varistors simply by hot-dipping zinc oxide thin films in Pr ₆ O ₁₁ : Influence of temperature. <i>Scientific Reports</i> , 2017, 7, 41994.	1.6	11
280	Risk assessment of zinc oxide, a cosmetic ingredient used as a UV filter of sunscreens. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2017, 20, 155-182.	2.9	77
281	Design and characterization of self-cleaning cotton fabrics exploiting zinc oxide nanoparticle-triggered photocatalytic degradation. <i>Cellulose</i> , 2017, 24, 2657-2667.	2.4	67
282	A feasible strategy to balance the crystallinity and specific surface area of metal oxide nanocrystals. <i>Scientific Reports</i> , 2017, 7, 46424.	1.6	51
283	Remarkable enhancement in solar hydrogen generation from MoS ₂ -RGO/ZnO composite photocatalyst by constructing a robust electron transport pathway. <i>Chemical Engineering Journal</i> , 2017, 327, 397-405.	6.6	71
284	Room temperature sintering of polar ZnO nanosheets: II-mechanism. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16413-16425.	1.3	11
285	Recyclable Fe ₃ O ₄ /SiO ₂ /TiO ₂ /Cu nanocomposites: synthesis, characterization and investigation of the photocatalytic and magnetic property. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9456-9463.	1.1	8
286	Mono-disperse SrMoO ₄ nanocrystals: Synthesis, luminescence and photocatalysis. <i>Journal of Materials Science and Technology</i> , 2017, 33, 834-842.	5.6	28
287	Artificial Photosynthetic Z-scheme Photocatalyst for Hydrogen Evolution with High Quantum Efficiency. <i>Journal of Physical Chemistry C</i> , 2017, 121, 107-114.	1.5	67
288	A novel visible light active N-doped ZnO for photocatalytic degradation of dyes. <i>Journal of Water Process Engineering</i> , 2017, 16, 309-318.	2.6	51
289	Facile, high yield ultrasound mediated protocol for ZnO hierarchical structures synthesis: Formation mechanism, optical and photocatalytic properties. <i>Ultrasonics Sonochemistry</i> , 2017, 36, 326-335.	3.8	28
290	Facile synthesis of ZnO nanoparticles for the photocatalytic degradation of methylene blue. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 82, 167-176.	1.1	27
291	Insights into the structure-induced catalysis dependence of simply engineered one-dimensional zinc oxide nanocrystals towards photocatalytic water purification. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 2075-2087.	3.0	14

#	ARTICLE	IF	CITATIONS
292	Unlocking the structure of mixed amorphous-crystalline ceramic oxide films synthesized under low temperature electromagnetic excitation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18434-18441.	5.2	20
293	Variability of surface components in gold catalysts – The role of hydroxyls and state of gold on activity and selectivity of Au-Nb ₂ O ₅ and Au-ZnNb ₂ O ₆ in methanol oxidation. <i>Journal of Catalysis</i> , 2017, 354, 100-112.	3.1	32
294	Synthesis and study of ZnO nanoparticles by polymer pyrolysis route using two different polymerization initiators. <i>International Journal of Applied Ceramic Technology</i> , 2017, 14, 1213-1221.	1.1	12
295	Highly Efficient Photocatalytic Z-Scheme Hydrogen Production over Oxygen-Deficient WO ₃ ·x Nanorods supported Zn _{0.3} Cd _{0.7} S Heterostructure. <i>Scientific Reports</i> , 2017, 7, 6574.	1.6	47
296	Antibacterial zinc oxide hybrid with gelatin coating. <i>Materials Science and Engineering C</i> , 2017, 81, 321-326.	3.8	45
297	Enhanced photoelectrochemical and photocatalytic properties of 3D-hierarchical ZnO nanostructures. <i>Journal of Alloys and Compounds</i> , 2017, 726, 474-483.	2.8	32
298	A novel ultra-thin-walled ZnO microtube cavity supporting multiple optical modes for bluish-violet photoluminescence, low-threshold ultraviolet lasing and microfluidic photodegradation. <i>NPG Asia Materials</i> , 2017, 9, e442-e442.	3.8	33
299	Synthesis of ZnO nanowire and ZnO/CeO ₂ solid solution nanowire by bio-morphing and its characterization. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 78, 462-470.	2.7	11
300	Cost-effective large-scale synthesis of oxygen-defective ZnO photocatalyst with superior activities under UV and visible light. <i>Ceramics International</i> , 2017, 43, 1870-1879.	2.3	35
301	Enhanced photocatalytic degradation of methylene blue and methyl orange by ZnO:Eu nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 740-752.	10.8	297
302	Acid-free co-operative self-assembly of graphene-ZnO nanocomposites and its defect mediated visible light photocatalytic activities. <i>Physica B: Condensed Matter</i> , 2017, 506, 32-41.	1.3	7
303	The effect of the preparation procedure on the morphology, texture and photocatalytic properties of ZnO. <i>Materials Research Bulletin</i> , 2017, 85, 35-46.	2.7	30
304	Enhanced photocatalytic degradation of azo dye in aqueous solutions using Ba@Ag@ZnO nanocomposite for self-sensitized under sunshine irradiation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5523-5536.	3.8	16
305	Influence of defects on the photocatalytic activity of Niobium-doped ZnO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4719-4724.	1.1	11
306	Doping induced grain size reduction and photocatalytic performance enhancement of SrMoO ₄ :Bi ³⁺ . <i>Applied Surface Science</i> , 2017, 392, 649-657.	3.1	34
307	Influence of Stabilizer on the Microstructures and Photocatalytic Performance of ZnO Nanopowder Synthesized by Sol-Gel Method. <i>Journal of Nano Research</i> , 0, 50, 57-71.	0.8	5
308	Fabrication of Co + F Doped ZnO Films for Improved Visible Light Responsive Photocatalysis. <i>Kinetics and Catalysis</i> , 2017, 58, 701-709.	0.3	6
309	Photocatalytic Water Oxidation on ZnO: A Review. <i>Catalysts</i> , 2017, 7, 93.	1.6	122

#	ARTICLE	IF	CITATIONS
310	The effect of copper and silver on the properties of Au-ZnO catalyst and its activity in glycerol oxidation. <i>Applied Surface Science</i> , 2018, 444, 197-207.	3.1	25
311	Time dependent rise and decay of photocurrent in zinc oxide nanoparticles in ambient and vacuum medium. <i>Materials Research Express</i> , 2018, 5, 055002.	0.8	4
312	Tunable Spectrum Selectivity for Multiphoton Absorption with Enhanced Visible Light Trapping in ZnO Nanorods. <i>Small</i> , 2018, 14, e1704053.	5.2	16
313	Study of YVO ₄ as a photocatalyst: Correlation between synthetic route and ecotoxicity. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 2846-2854.	3.3	11
314	Synthesis and photocatalytic activity of ZnO-CuPc for methylene blue and potassium cyanide degradation. <i>Materials Science in Semiconductor Processing</i> , 2018, 77, 74-82.	1.9	35
315	ZnO [~] x/carbon dots composite hollow spheres: Facile aerosol synthesis and superior CO ₂ photoreduction under UV, visible and near-infrared irradiation. <i>Applied Catalysis B: Environmental</i> , 2018, 230, 36-48.	10.8	62
316	Effects of size reduction on microstructural, optical, vibrational, magnetic and photocatalytic properties of ZnO nanocrystals. <i>Materials Characterization</i> , 2018, 137, 109-118.	1.9	23
317	Study on gas sensing mechanism in p-CuO/n-ZnO heterojunction sensor. <i>Materials Research Bulletin</i> , 2018, 100, 420-428.	2.7	37
318	Study of Optical and Magnetic Properties of Graphene-Wrapped ZnO Nanoparticle Hybrids. <i>Langmuir</i> , 2018, 34, 1497-1505.	1.6	14
319	High-Performance Organic-Silicon Heterojunction Solar Cells by Using Al-Doped ZnO as Cathode Interlayer. <i>Solar Rrl</i> , 2018, 2, 1700223.	3.1	8
320	ZnO nanoparticle preparation route influences surface reactivity, dissolution and cytotoxicity. <i>Environmental Science: Nano</i> , 2018, 5, 572-588.	2.2	23
321	One-step synthesis of ZnO and Ag/ZnO heterostructures and their photocatalytic activity. <i>Ceramics International</i> , 2018, 44, 6176-6180.	2.3	82
322	Enhanced magneto-optical and photo-catalytic properties of transition metal cobalt (Co ²⁺ ions) doped spinel MgFe ₂ O ₄ ferrite nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 452, 380-388.	1.0	180
323	Oxygen-defected ZnO: Facial Synthesis and high photocatalytic performance under visible light. <i>Optik</i> , 2018, 158, 1123-1130.	1.4	16
324	Enhanced photoelectrochemical activity of electrochemically deposited ZnO nanorods for water splitting reaction. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 9547-9554.	1.1	8
325	Oxygen vacancy-rich mesoporous ZrO ₂ with remarkably enhanced visible-light photocatalytic performance. <i>Solar Energy Materials and Solar Cells</i> , 2018, 182, 113-120.	3.0	88
326	ZnO flowers and graphene oxide hybridization for efficient photocatalytic degradation of o-xylene in water. <i>Materials Chemistry and Physics</i> , 2018, 212, 479-489.	2.0	19
327	Structural, optical and photocatalytic properties of zinc oxides obtained from spent alkaline batteries. <i>Materials Research Bulletin</i> , 2018, 103, 158-165.	2.7	18

#	ARTICLE	IF	CITATIONS
328	Defect-Mediated Reactive Oxygen Species Generation in Mg-Substituted ZnO Nanoparticles: Efficient Nanomaterials for Bacterial Inhibition and Cancer Therapy. <i>ACS Omega</i> , 2018, 3, 2956-2965.	1.6	66
329	Microemulsion synthesis, optical and photocatalytic properties of vanadium-doped nano ZnO. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 479-488.	1.1	14
330	Experimental and Theoretical Study of Enhanced Photocatalytic Activity of Mg-Doped ZnO NPs and ZnO/rGO Nanocomposites. <i>Chemistry - an Asian Journal</i> , 2018, 13, 194-203.	1.7	83
331	Synthesis of Highly Luminescent SnO ₂ Nanocrystals: Analysis of their Defect-Related Photoluminescence Using Polyoxometalates as Quenchers. <i>Advanced Functional Materials</i> , 2018, 28, 1704620.	7.8	26
332	Plasmon-mediated charge dynamics and photoactivity enhancement for Au-decorated ZnO nanocrystals. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4286-4296.	5.2	141
333	Insight into pathways of methylene blue degradation with H ₂ O ₂ over mono and bimetallic Nb, Zn oxides. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 634-647.	10.8	89
334	Annealing Induced Oxygen Defects on Green Sonochemically Synthesized ZnO Nanoparticles for Photoelectrochemical Water Splitting. <i>ChemistrySelect</i> , 2018, 3, 11914-11921.	0.7	14
335	Synthesis of ZnO mesoporous powders and their application in dye photodegradation. <i>Materials Today: Proceedings</i> , 2018, 5, 17414-17421.	0.9	9
336	Photoluminescence behavior and visible light photocatalytic activity of ZnO, ZnO/ZnS and ZnO/ZnS/Î±-Fe ₂ O ₃ nanocomposites. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 1386-1396.	1.7	27
337	Zinc Oxide Spherical-Shaped Nanostructures: Investigation of Surface Reactivity and Interactions with Microbial and Mammalian Cells. <i>Langmuir</i> , 2018, 34, 13638-13651.	1.6	23
338	Enthralling Adsorption of Different Dye and Metal Contaminants from Aqueous Systems by Cobalt/Cobalt Oxide Nanocomposites Derived from Single-Source Molecular Precursors. <i>ChemistrySelect</i> , 2018, 3, 5733-5741.	0.7	7
339	In situ formation of Ag/ZnO heterostructure arrays during synergistic photocatalytic process for SERS and photocatalysis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 88, 277-285.	2.7	29
340	Photocatalytic degradation of methylene blue in aqueous solution by using ZnO-SnO ₂ nanocomposites. <i>Materials Science in Semiconductor Processing</i> , 2018, 87, 24-31.	1.9	168
341	Direct growth of ZnO nanostructures on the Zn electroplated mild steel to create the surface roughness and improve the corrosion protection of the electroless Ni-P coating. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018, 231, 18-27.	1.7	11
342	Sol-gel synthesis and photocatalytic activity of ZnO-Ag-Sm nanoparticles for water treatment. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 10986-10991.	1.1	6
343	Laser-Ablated ZnO Nanoparticles and Their Photocatalytic Activity toward Organic Pollutants. <i>Materials</i> , 2018, 11, 1127.	1.3	72
344	Novel visible light induced Ag ₂ S/g-C ₃ N ₄ /ZnO nanoarrays heterojunction for efficient photocatalytic performance. <i>Applied Surface Science</i> , 2018, 462, 896-903.	3.1	38
345	Chiral ZnO nanoparticles for detection of dopamine. <i>Materials Science and Engineering C</i> , 2018, 93, 739-745.	3.8	34

#	ARTICLE	IF	CITATIONS
346	Enhanced bactericidal and photocatalytic activities of ZnO nanostructures by changing the cooling route. <i>New Journal of Chemistry</i> , 2018, 42, 11831-11838.	1.4	25
347	Improvement of Photostability and NIR Activity of Cyanine Dye through Nanohybrid Formation: Key Information from Ultrafast Dynamical Studies. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7550-7557.	1.1	24
348	Tolerance in superstructures formed from high-quality colloidal ZnO nanoparticles with hexagonal cross-section. <i>CrystEngComm</i> , 2019, 21, 5137-5144.	1.3	5
349	Structural, optical and photoconductivity studies of ZnO bicones synthesized by seed-mediated method. <i>Vacuum</i> , 2019, 168, 108856.	1.6	3
350	Photoluminescence and photocatalytic properties of europium doped ZnO nanoparticles. <i>Applied Surface Science</i> , 2019, 494, 666-674.	3.1	63
351	Morphological, optical, photocatalytic and electrochemical properties of hydrothermally grown ZnO nanoflowers with variation in hydrothermal temperature. <i>Materials Science in Semiconductor Processing</i> , 2019, 104, 104648.	1.9	34
352	Modified polymer network gel preparation on Ag/ZnO quasi sphere nanostructure with enhanced structural and optical properties. <i>Materials Research Express</i> , 2019, 6, 0950a2.	0.8	4
353	Morphological, structural and optical properties of Mg-doped ZnO nanocrystals synthesized using polyol process. <i>Materials Science in Semiconductor Processing</i> , 2019, 102, 104595.	1.9	33
354	Visible-light photocatalytic degradation pathway of tetracycline hydrochloride with cubic structured ZnO/SnO ₂ heterojunction nanocatalyst. <i>Chemical Physics Letters</i> , 2019, 736, 136806.	1.2	59
355	Self-assembly of coordination polymers on plasmonic surfaces for computer vision decodable, unclonable and colorful security labels. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13040-13046.	2.7	49
356	Study of structural and surface morphological properties of Tb doped ZnO nanoparticles using XRD, XPS and fractal analysis. <i>Materials Research Express</i> , 2019, 6, 115039.	0.8	10
357	Competition of luminescence and photocatalysis in melilite: Recombination and transportation of electrons. <i>Physica B: Condensed Matter</i> , 2019, 573, 87-91.	1.3	6
358	Synthesis of CoTiO ₃ nanoparticles with enhanced photocatalytic degradation. <i>Micro and Nano Letters</i> , 2019, 14, 840-844.	0.6	7
359	UV-visible photoresponse properties of self-seeded and polymer mediated ZnO flower-like and biconical nanostructures. <i>Results in Physics</i> , 2019, 15, 102647.	2.0	15
360	Synthesis of a metal coordinated amino acid based nonlinear single crystal, Bis(l-threonine)zinc(II) using the solution growth technique and its physicochemical properties. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 135, 109077.	1.9	10
361	Self-assembled zinc oxide hierarchical structures with enhanced antibacterial properties from stacked chain-like zinc oxalate compounds. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 258-270.	5.0	9
362	Transparent ZnO crystallized glass ceramics for photocatalytic and antibacterial applications. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	28
363	Phycosynthesis and Enhanced Photocatalytic Activity of Zinc Oxide Nanoparticles Toward Organosulfur Pollutants. <i>Scientific Reports</i> , 2019, 9, 6866.	1.6	256

#	ARTICLE	IF	CITATIONS
364	High Defect Nanoscale ZnO Films with Polar Facets for Enhanced Photocatalytic Performance. ACS Applied Nano Materials, 2019, 2, 2881-2889.	2.4	29
365	Synthesis and Characterization of ZnO-ZnS Nanoflowers for Enhanced Photocatalytic Performance : ZnS Decorated ZnO Nanoflowers. , 2019, , .		5
366	Template-free synthesis of carbon self-doped ZnO superstructures as efficient support for ultra fine Pd nanoparticles and their catalytic activity towards benzene oxidation. Molecular Catalysis, 2019, 469, 118-130.	1.0	25
367	Europium-doped ZnO nanospheres "controlling optical properties and photocatalytic activity. Journal of Materials Chemistry C, 2019, 7, 3909-3919.	2.7	27
368	Photocatalytic activity of Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ @polyaniline decorated BiOCl for azo dye degradation under visible light "integrated role and degradation kinetics interpretation. RSC Advances, 2019, 9, 8977-8993.	1.7	43
369	Green synthesis of ZnO nanoparticles using aqueous <i>Brassica oleracea</i> L. var. <i>italica</i> and the photocatalytic activity. Green Chemistry Letters and Reviews, 2019, 12, 444-457.	2.1	125
370	Effective ways to enhance the photocatalytic activity of ZnO nanopowders: high crystalline degree, more oxygen vacancies, and preferential growth. New Journal of Chemistry, 2019, 43, 19223-19231.	1.4	19
371	Nonlinear optical properties of Ag-enriched ZnO nanostructures. Journal of Nonlinear Optical Physics and Materials, 2019, 28, 1950027.	1.1	8
372	Photocatalytic activity of Cu ₂ O/ZnO nanocomposite for the decomposition of methyl orange under visible light irradiation. Science and Engineering of Composite Materials, 2019, 26, 104-113.	0.6	23
373	Enhanced Thermocatalytic Activity of Porous Yellow ZnO Nanoflakes: Defect- and Morphology-Induced Perspectives. Chemistry - an Asian Journal, 2019, 14, 612-620.	1.7	6
374	Multifunctional ZnO materials prepared by a versatile green carbohydrate-assisted combustion method for environmental remediation applications. Ceramics International, 2019, 45, 2295-2302.	2.3	15
375	Defects and their behaviors in mineral dissolution under water environment: A review. Science of the Total Environment, 2019, 651, 2208-2217.	3.9	13
376	Photocatalytic degradation of Rhodamine-B dye by stable ZnO nanostructures with different calcination temperature induced defects. Applied Surface Science, 2019, 465, 546-556.	3.1	127
377	Increasing the reactive sites of ZnO nanoparticles by Li doping for ethanol sensing. Materials Research Express, 2019, 6, 015024.	0.8	13
378	One-step microwave synthesis of Ag/ZnO microrods as photocatalysts. Materials Research Innovations, 2019, 23, 129-134.	1.0	10
379	Vertically aligned ZnO nanorods arrays grown by chemical bath deposition for ultraviolet photodetectors with high response performance. Journal of Alloys and Compounds, 2020, 815, 152346.	2.8	41
380	Preparation of K ⁺ doped ZnO nanorods with enhanced photocatalytic performance under visible light. Journal Physics D: Applied Physics, 2020, 53, 035301.	1.3	11
381	Double-side solar hydrogen evolution nanopaper. Applied Catalysis B: Environmental, 2020, 260, 118083.	10.8	20

#	ARTICLE	IF	CITATIONS
382	Catalytic activity of surface- ϵ -functionalized nanoscale nickel zinc multiferrites: potential vector for water purification. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 739-750.	1.6	3
383	Synergetic effects of defects and acid sites of 2D-ZnO photocatalysts on the photocatalytic performance. <i>Journal of Hazardous Materials</i> , 2020, 385, 121527.	6.5	36
384	Fe ³⁺ @ ZnO/polyester based solar photocatalytic membrane reactor for abatement of RB5 dye. <i>Journal of Cleaner Production</i> , 2020, 246, 119010.	4.6	44
385	Wide-bandgap HfO ₂ -V ₂ O ₅ nanowires heterostructure for visible light-driven photocatalytic degradation. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2252-2261.	1.9	12
386	A remarkable enhancement in photocatalytic activity of facilely synthesized Terbium@Zinc oxide nanoparticles by flash combustion route for optoelectronic applications. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 1811-1823.	1.6	52
387	Preparation and characterization of Ce doped ZnO nanomaterial for photocatalytic and biological applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 261, 114780.	1.7	41
388	Fabrication of sphere-like Bi ₂ MoO ₆ /ZnO composite catalyst with strong photocatalytic behavior for the detoxification of harmful organic dyes. <i>Optical Materials</i> , 2020, 109, 110218.	1.7	31
389	Single-step fabrication of ZnO microflower thin films for highly efficient and reusable photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 13578-13587.	1.1	10
390	Polyaniline-Coated TiO ₂ Nanorods for Photocatalytic Degradation of Bisphenol A in Water. <i>ACS Omega</i> , 2020, 5, 29642-29656.	1.6	55
391	Optical and photocatalytic properties of ZnO and ZnS structures formed as controlled calcination products of l-cysteine assisted aqueous precipitation. <i>Materials Today Communications</i> , 2020, 25, 101573.	0.9	2
392	Thermal Annealing Induced Controllable Porosity and Photoactive Performance of 2D ZnO Sheets. <i>Nanomaterials</i> , 2020, 10, 1352.	1.9	23
393	Photocatalytic synthesis of unsymmetrical thiourea derivatives via visible-light irradiation using nitrogen-doped ZnO nanorods. <i>New Journal of Chemistry</i> , 2020, 44, 14505-14512.	1.4	10
394	CoMoO ₄ /bamboo charcoal hybrid material for high-energy-density and high cycling stability supercapacitors. <i>Dalton Transactions</i> , 2020, 49, 10799-10807.	1.6	39
395	Ternary ZnCdSO composite photocatalyst for efficient dye degradation under visible light retaining Z-scheme of migration pathways for the photogenerated charge carriers. <i>Solar Energy Materials and Solar Cells</i> , 2020, 217, 110674.	3.0	24
396	Pure and cerium-doped zinc oxides: Hydrothermal synthesis and photocatalytic degradation of methylene blue under visible light irradiation. <i>Journal of the Chinese Chemical Society</i> , 2020, 67, 1631-1643.	0.8	9
397	Rendering Visible-Light Photocatalytic Activity to Undoped ZnO via Intrinsic Defects Engineering. <i>Catalysts</i> , 2020, 10, 1163.	1.6	22
398	Proton, UV, and X-ray Induced Luminescence in Tb ³⁺ Doped LuGd ₂ Ga ₂ Al ₃ O ₁₂ Phosphors. <i>Crystals</i> , 2020, 10, 844.	1.0	5
399	Annealing temperature mediated enhanced photosensitivity in bicone-like and flower-like structures of ZnO synthesized using Co-precipitation method. <i>Optical Materials</i> , 2020, 109, 110367.	1.7	1

#	ARTICLE	IF	CITATIONS
400	Organic-inorganic bimetallic hybrid particles with controllable morphology for the catalytic degradation of organic dyes. <i>New Journal of Chemistry</i> , 2020, 44, 8366-8378.	1.4	6
401	Synthesis of N-Doped ZnO Nanocomposites for Sunlight Photocatalytic Degradation of Textile Dye Pollutants. <i>Journal of Composites Science</i> , 2020, 4, 49.	1.4	29
402	Crystal structure dependent photocatalytic degradation of manganese and titanium oxides composites. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	5
403	Influence of graphene oxide additive on physical, microstructure, adsorption, and photocatalytic properties of calcined kaolinite-based geopolymer ceramic composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 602, 125080.	2.3	38
404	Enhanced luminescence and photocatalytic activity of Bi ₂ O ₃ :Ho ³⁺ needles. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155641.	2.8	27
405	Growth and formation mechanism of shape-selective preparation of ZnO structures: correlation of structural, vibrational and optical properties. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7329-7339.	1.3	23
406	Effect of fabrication temperature on the manufacturability of lateral ZnO nanowire array UV sensor. <i>Science China Technological Sciences</i> , 2020, 63, 668-674.	2.0	4
407	Mo-substituted CeVO ₄ system: solid solution formation and implications on sorption behaviour. <i>Journal of Materials Science</i> , 2020, 55, 5690-5704.	1.7	4
408	Facile fabrication of ZnO nanorods modified with RGO for enhanced photodecomposition of dyes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 603, 125247.	2.3	21
409	The role of counter-ions in crystal morphology, surface structure and photocatalytic activity of ZnO crystals grown onto a substrate. <i>Applied Surface Science</i> , 2020, 529, 147057.	3.1	15
410	Raman spectroscopy study of structural disorder degree of ZnO ceramics. <i>Materials Science in Semiconductor Processing</i> , 2020, 119, 105227.	1.9	20
411	CdS quantum dots modified surface oxygen vacancy defect ZnO _{1-x} -TiO _{2-x} solid solution sphere as Z-Scheme heterojunctions for efficient visible light-driven photothermal-photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154218.	2.8	20
412	Realization of Excitation Wavelength Independent Blue Emission of ZnO Quantum Dots with Intrinsic Defects. <i>ACS Photonics</i> , 2020, 7, 723-734.	3.2	29
413	Regulate the crystal and optoelectronic properties of Bi ₂ WO ₆ nanosheet crystals by Sm ³⁺ doping for superior visible-light-driven photocatalytic performance. <i>Applied Surface Science</i> , 2020, 508, 145309.	3.1	41
414	Synthesis and characterization of Dy-doped $\text{Lu}_{1-x}\text{Gd}_x\text{Ga}_2\text{O}_{12}$ phosphor for LEDs. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	0.8	5
415	Synthesis of Surface-Oxygen-Vacancy-Rich (GaN) _{0.5} (ZnO) _{0.5} Particles with Enhanced Visible-Light Photodegradation Performance. <i>Inorganic Chemistry</i> , 2020, 59, 7012-7026.	1.9	14
416	Effect of cerium ions in Ce-Doped ZnO nanostructures on their photocatalytic and picric acid chemical sensing. <i>Ceramics International</i> , 2021, 47, 3089-3098.	2.3	33
417	Degradation of dyes using biologically synthesized zinc oxide nanoparticles. <i>Materials Today: Proceedings</i> , 2021, 37, 849-853.	0.9	34

#	ARTICLE	IF	CITATIONS
418	Photocatalytic and fluorescent chemical sensing applications of La-doped ZnO nanoparticles. Chemical Papers, 2021, 75, 1555-1566.	1.0	24
419	Influence of polyaniline on the photocatalytic properties of metal nanocomposites: A review. Colloids and Interface Science Communications, 2021, 40, 100339.	2.0	41
420	Toxicity of different zinc oxide nanomaterials and dose-dependent onset and development of Parkinson's disease-like symptoms induced by zinc oxide nanorods. Environment International, 2021, 146, 106179.	4.8	67
421	Zinc-containing precursor dependence of hydrothermal method for the synthesis of N-doped ZnO photocatalysts. Chemical Engineering Communications, 2021, 208, 149-158.	1.5	8
422	Effect of electrodeposition temperature on the thin films of ZnO nanoparticles used for photocathodic protection of SS304. Journal of Electroanalytical Chemistry, 2021, 881, 114945.	1.9	8
423	Role of nanostructured metal oxides in photocatalysis: An overview. , 2021, , 145-167.		12
424	Optical properties and carrier dynamics in Co-doped ZnO nanorods. Nanoscale Advances, 2021, 3, 214-222.	2.2	3
425	Large enhancement of photocatalytic activity in ZnO thin films grown by plasma-enhanced atomic layer deposition. Surfaces and Interfaces, 2021, 23, 100984.	1.5	12
426	Evaluation of Bioactive Potential of a Tragia involucrata Healthy Leaf Extract @ ZnO Nanoparticles. BioNanoScience, 2021, 11, 703-719.	1.5	10
427	Enhancement of the structural and morphological properties of ZnO/rGO nanocomposites synthesized by hydrothermal method. Materials Today: Proceedings, 2021, , .	0.9	1
428	Impact of particle size and surface defects on antibacterial and photocatalytic activities of undoped and Mg-doped ZnO nanoparticles, biosynthesized using one-step simple process. Vacuum, 2021, 187, 110110.	1.6	55
429	Photocatalytic oxidation of cationic dyes in single and binary solutions in presence of Zn-Cd oxides obtained from calcined LDH. Environmental Science and Pollution Research, 2021, 28, 56092-56104.	2.7	3
430	Hydrothermal synthesis and luminescence properties of Dy ³⁺ doped SrMoO ₄ nano-phosphor. Journal of Luminescence, 2021, 234, 117996.	1.5	23
431	In-situ surface-enhanced Raman scattering based on MTi ₂ O nanoflowers: Monitoring and degradation of contaminants. Journal of Hazardous Materials, 2021, 412, 125209.	6.5	40
432	Effect of ZnO Nanoparticles on the Physical Properties of PLA/PBS Biocomposite Films. Materials Science Forum, 0, 1033, 143-150.	0.3	3
433	A Novel Strategy of Multi-Element Nanocomposite Synthesis for High Performance ZnO-CoSe ₂ Supercapacitor Material Development. Chinese Journal of Chemistry, 2021, 39, 2441-2450.	2.6	16
434	Enhancement of Dye Degradation by Zinc Oxide via Transition-Metal Doping: A Review. Journal of Electronic Materials, 2021, 50, 5106-5121.	1.0	17
436	Fabrication of oxygen defect-rich pencil-like ZnO nanorods with CDots and Ag co-enhanced photocatalytic activity for tetracycline hydrochloride degradation. Separation and Purification Technology, 2021, 266, 118605.	3.9	24

#	ARTICLE	IF	CITATIONS
437	Single nozzle electrospinning promoted hierarchical shell wall structured zinc oxide hollow tubes for water remediation. <i>Journal of Colloid and Interface Science</i> , 2021, 593, 162-171.	5.0	8
438	Hot electrons in carbon nitride with ultralong lifetime and their application in reversible dynamic color displays. <i>Cell Reports Physical Science</i> , 2021, 2, 100516.	2.8	13
439	Nanofiber Composite for Improved Water Retention and Dendrites Suppression in Flexible Zinc-Air Batteries. <i>Small</i> , 2021, 17, e2103048.	5.2	18
440	Oxygen Vacancies-Induced Enhancement in Photocatalytic Performance of Sea Urchin-Like Fe ₃ O ₄ @ZnO Hollow Core-Shell Structures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 0, , 2100421.	0.8	1
441	Structural, photocatalytic and photoelectrochemical properties of porous ZnO nanosheets prepared by air cold plasma. <i>Nanotechnology</i> , 2021, 32, 505712.	1.3	3
442	Role of precursor dependent nanostructures of ZnO on its optical and photocatalytic activity and influence of FRET between ZnO and methylene blue dye on photocatalysis. <i>Materials Chemistry and Physics</i> , 2021, 270, 124872.	2.0	20
443	Improved photocatalytic activity of ZnO via the modification of In ₂ O ₃ and MoS ₂ surface species for the photoreduction of CO ₂ . <i>Applied Surface Science</i> , 2021, 566, 150649.	3.1	10
444	In vitro cytotoxicity efficacy of phytosynthesized Ag/ZnO nanocomposites using <i>Murraya koenigii</i> and <i>Zingiber officinale</i> extracts. <i>Materials Chemistry and Physics</i> , 2021, 272, 124903.	2.0	12
445	Self-assembled ZnO-carbon dots anode materials for high performance nickel-zinc alkaline batteries. <i>Chemical Engineering Journal</i> , 2021, 425, 130660.	6.6	29
446	Fe-F Co-doped NaTi ₂ (PO ₄) ₃ /C anode material for high performance and long-life aqueous Li-ion battery. <i>Journal of Alloys and Compounds</i> , 2021, 885, 161007.	2.8	3
447	Synthesis of CdS/GO modified ZnO heterostructure for visible light dye degradation applications. <i>Applied Surface Science</i> , 2021, 570, 151260.	3.1	18
448	The role of sulfate ions on distinctive defect emissions in ZnO:Ce ³⁺ nanophosphors - A study on the application in color display systems. <i>Journal of Luminescence</i> , 2021, 240, 118462.	1.5	10
450	3D porous ZnO-Sn heterojunction for visible light driven photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16576-16585.	1.3	86
451	Effect of oxygen deficiency on visible light photocatalytic activity in AZO. <i>Micro and Nano Letters</i> , 2019, 14, 1303-1306.	0.6	5
452	Studies on Ethanol Gas Sensing Properties of Al ₂ O ₃ -doped ZnO Thick Films. <i>Journal of Petroleum Science Research</i> , 2014, 3, 60.	0.7	3
453	Synthesis and Characterization of Copper Oxide Composite and Study of Composite Mediated Photo-Oxidative Degradation of Methylene Blue under Visible Light. <i>International Letters of Chemistry, Physics and Astronomy</i> , 0, 63, 29-35.	0.0	1
454	Photocatalytic Activity under Solar Irradiation of Silver and Copper Doped Zinc oxide: Photodeposition Versus Liquid Impregnation Methods. <i>Journal of Applied Sciences</i> , 2012, 12, 1809-1816.	0.1	20
455	Characteristics and Photocatalytic Activities of Ce-Doped ZnO Nanoparticles. <i>Materials Sciences and Applications</i> , 2013, 04, 145-152.	0.3	15

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456	Role of surfactant type on morphological, textural, optical, and photocatalytic properties of ZnO nanoparticles obtained by modified sol-gel. <i>Journal of Sol-Gel Science and Technology</i> , 2021, 100, 271-285.	1.1	9
457	Chemistry and Charge Trapping at the Interface of Silver and Ultrathin Layers of Zinc Oxide. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 49423-49432.	4.0	9
458	Determining the structure-antibacterial properties relationship and bacterial inactivation kinetics in different morphological-controlled ZnO nanoarchitectures for wastewater applications. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106646.	3.3	3
459	Photodissolution Suppression and Photocatalytic Activity Improvement through Crystallinity Improvement of ZnO Nanocrystalline Thin Films. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FG04.	0.8	0
460	First principle calculation and photocatalytic performance of BixWO6 (1.81 \times 2.01) with oxygen vacancies. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 066801.	0.2	1
461	Optical study of ZnO nanorods grown via vapour solid growth method for energy harvesting applications. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
462	Facet-selective morphology-controlled remote epitaxy of ZnO microcrystals via wet chemical synthesis. <i>Scientific Reports</i> , 2021, 11, 22697.	1.6	7
463	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. <i>New Journal of Chemistry</i> , 2022, 46, 3645-3657.	1.4	7
464	Growth of Interconnected ZnO Nanostructures-Its Photocatalytic and Electrochemical Properties. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 013008.	0.9	2
465	Synthesis of ZnO Nanoparticles with Antibacterial Properties Using <i>Terminalia catappa</i> Leaf Extract. <i>Chemical Engineering and Technology</i> , 2022, 45, 658-666.	0.9	5
466	Insight into the Growth Mechanism and Photocatalytic Behavior of Tubular Hierarchical ZnO Structures: An Integrated Experimental and Theoretical Approach. <i>Inorganic Chemistry</i> , 2022, 61, 2962-2979.	1.9	10
467	Tuning defect nonequilibrium of brownmillerite Sr _{1+x} Y _{2-x} O ₄ for rich-oxygen-vacancy direct ammonia solid oxide fuel cells cathode. <i>Journal of Power Sources</i> , 2022, 524, 231078.	4.0	4
468	Strategies to Enhance ZnO Photocatalyst's Performance for Water Treatment: A Comprehensive Review. <i>Chemical Record</i> , 2022, 22, e202100299.	2.9	40
469	Thermal Annealing Influences on the Photoresponse of Zinc Oxide Nanoparticle Films. <i>Journal of Electronic Materials</i> , 2022, 51, 2564-2575.	1.0	1
470	Remarkable sunlight-driven photocatalytic performance of Ag-doped ZnO nanoparticles prepared by green synthesis for degradation of emerging pollutants in water. <i>Environmental Science and Pollution Research</i> , 2022, 29, 57330-57344.	2.7	9
471	Synthesis and structure of amorphous SiO ₂ /ZnO composites with potential application for azo dye degradation. <i>Materials Today: Proceedings</i> , 2022, 61, 1272-1279.	0.9	6
472	Green synthesis of ZnO, MgO and SiO ₂ nanoparticles and its effect on irrigation water, soil properties, and <i>Origanum majorana</i> productivity. <i>Scientific Reports</i> , 2022, 12, 5780.	1.6	23
473	Morphological, Structural, Substructural Characteristics and Chemical Composition of ZnO Nanocrystals Doped with Aluminum. , 2021, , .		0

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474	Lattice-site engineering in ZnGa ₂ O ₄ :Cr ³⁺ through Li ⁺ doping for dynamic luminescence and advanced optical anti-counterfeiting. Journal of Materials Chemistry C, 2022, 10, 7935-7948.	2.7	30
475	Reduction of Heavy Hydrocarbons from Oilfield Produced Water. Pollutants, 2022, 2, 234-251.	1.0	4
476	MOF-derived nanocrystalline ZnO with controlled orientation and photocatalytic activity. Chemosphere, 2022, 303, 134932.	4.2	32
477	Solution Combustion Synthesis of Pencil-Shaped ZnO Nanostructures and the Analysis of Their Photocatalytic Properties. ECS Journal of Solid State Science and Technology, 0, , .	0.9	0
478	The Auto-Combustion Method Synthesized Eu ₂ O ₃ - ZnO Nanostructured Composites for Electronic and Photocatalytic Applications. Materials, 2022, 15, 3257.	1.3	14
479	Cytotoxicity of ZnO nanoparticles under dark conditions <i>via</i> oxygen vacancy dependent reactive oxygen species generation. Physical Chemistry Chemical Physics, 2022, 24, 13965-13975.	1.3	15
480	Concurrent Synthesis of Functional SnO ₂ /SnO Composite for Proton Conductive Sensor and Photo-Catalytic Treatment. Journal of the Electrochemical Society, 2022, 169, 077506.	1.3	5
481	Removal of a Contaminant of Emerging Concern by Heterogeneous Catalytic Ozonation Process with a Novel Nano Bimetallic Catalyst Embedded on Activated Carbon. Ozone: Science and Engineering, 2023, 45, 361-373.	1.4	6
482	Cooperative effects of zinc interstitials and oxygen vacancies on violet-blue photoluminescence of ZnO nanoparticles: UV radiation induced enhanced latent fingerprint detection. Journal of Luminescence, 2022, 251, 119156.	1.5	18
483	Oxygen vacancy-rich ZnO nanorods-based MEMS sensors for swift trace ethanol recognition. Journal of the American Ceramic Society, 2023, 106, 1050-1061.	1.9	20
484	Defect assisted Reactive Oxygen Species generation for photocatalytic degradation of methylene blue by nano-structured zinc oxide synthesized in CTAB medium. Materials Chemistry and Physics, 2023, 294, 127014.	2.0	7
485	Ag modified ZnO nanoflowers for the dispersive micro-solid-phase extraction of lead(II) from food and water samples prior to its detection with high-resolution continuum source flame atomic absorption spectrometry. Talanta, 2023, 253, 124082.	2.9	23
486	Entrapped Molecule-Like Europium-Oxide Clusters in Zinc Oxide with Nearly Unaffected Host Structure. Small, 2023, 19, .	5.2	4
487	Synthesis and Characterization of Copper Oxide Composite and Study of Composite Mediated Photo-Oxidative Degradation of Methylene Blue under Visible Light. International Letters of Chemistry, Physics and Astronomy, 0, 63, 29-35.	0.0	1
488	Free-Standing Sulfur Cathodes Enabled by a Cationic Polymer for Lean Electrolyte Lithium-Sulfur Batteries. ACS Energy Letters, 2023, 8, 619-627.	8.8	8
489	Aqueous solution synthesis and size control of acid-resistant β -Ga ₂ O ₃ microparticles. Materials Letters, 2023, 335, 133758.	1.3	2
490	Semi-quantitative determination of active sites in heterogeneous catalysts for photo/electrocatalysis. Journal of Materials Chemistry A, 2023, 11, 2528-2543.	5.2	4
491	Tailoring dual redox pairs strategy on a defective spinel Mg _{0.4} Ni _x Mn _{2.6-x} O ₄ cathode for the boosting of SOFCs performance. Journal of Alloys and Compounds, 2023, 939, 168625.	2.8	4

#	ARTICLE	IF	CITATIONS
492	Fabrication, characterization, and application of PSf/Ni@ZnO amalgamated membrane for photocatalytic degradation of dyeing wastewater from batik industry. <i>Materials Today Chemistry</i> , 2023, 30, 101493.	1.7	0
493	Biosynthesis and characterization of novel nanocomposite ZnO/BaMg ₂ efficiency for high-speed adsorption of AZO dye. <i>Biomass Conversion and Biorefinery</i> , 0, , .	2.9	16