

Zhaohong Zhang

List of Publications by Year in descending order

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38
papers

1,704
citations

331670

21
h-index

302126

39
g-index

39
all docs

39
docs citations

39
times ranked

1987
citing authors

#	ARTICLE	IF	CITATIONS
1	Construction of novel symmetric double Z-scheme BiFeO ₃ /CuBi ₂ O ₄ /BaTiO ₃ photocatalyst with enhanced solar-light-driven photocatalytic performance for degradation of norfloxacin. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 119017.	20.2	150
2	Investigation on the rapid degradation of congo red catalyzed by activated carbon powder under microwave irradiation. <i>Journal of Hazardous Materials</i> , 2007, 147, 325-333.	12.4	148
3	Microwave degradation of methyl orange dye in aqueous solution in the presence of nano-TiO ₂ -supported activated carbon (supported-TiO ₂ /AC/MW). <i>Journal of Hazardous Materials</i> , 2012, 209-210, 271-277.	12.4	134
4	Construction of novel Z-scheme Ag/FeTiO ₃ /Ag/BiFeO ₃ photocatalyst with enhanced visible-light-driven photocatalytic performance for degradation of norfloxacin. <i>Chemical Engineering Journal</i> , 2018, 351, 1056-1066.	12.7	102
5	Photocatalytic degradation of organic dyes with Er ³⁺ :YAlO ₃ /ZnO composite under solar light. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 355-361.	6.2	84
6	Preparation of Fe-doped mixed crystal TiO ₂ catalyst and investigation of its sonocatalytic activity during degradation of azo fuchsine under ultrasonic irradiation. <i>Journal of Colloid and Interface Science</i> , 2008, 320, 202-209.	9.4	78
7	Microwave-induced carbon nanotubes catalytic degradation of organic pollutants in aqueous solution. <i>Journal of Hazardous Materials</i> , 2016, 310, 226-234.	12.4	78
8	Fabrication of novel Z-scheme SrTiO ₃ /MnFe ₂ O ₄ system with double-response activity for simultaneous microwave-induced and photocatalytic degradation of tetracycline and mechanism insight. <i>Chemical Engineering Journal</i> , 2020, 400, 125981.	12.7	74
9	NF-TiO ₂ photocatalysis of amitrole and atrazine with addition of oxidants under simulated solar light: Emerging synergies, degradation intermediates, and reusable attributes. <i>Journal of Hazardous Materials</i> , 2013, 260, 569-575.	12.4	73
10	Microwave induced degradation of parathion in the presence of supported anatase- and rutile-TiO ₂ /AC and comparison of their catalytic activity. <i>Chemical Engineering Journal</i> , 2013, 231, 84-93.	12.7	61
11	Microwave hydrothermal-assisted preparation of novel spinel-NiFe ₂ O ₄ /natural mineral composites as microwave catalysts for degradation of aquatic organic pollutants. <i>Journal of Hazardous Materials</i> , 2018, 350, 1-9.	12.4	60
12	Construction of ternary annular Z-scheme+1Heterojunction CuO/WO ₃ /CdS/ photocatalytic system for methylene blue degradation with simultaneous hydrogen production. <i>Applied Surface Science</i> , 2019, 498, 143843.	6.1	55
13	An anti-symmetric dual (ASD) Z-scheme photocatalytic system: (ZnIn ₂ S ₄ /Er ³⁺ :Y ₃ Al ₅ O ₁₂ @ZnTiO ₃ /CaIn ₂ S ₄) for organic pollutants degradation with simultaneous hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6592-6607.	7.1	54
14	Construction of fixed Z-scheme Ag AgBr/Ag/TiO ₂ photocatalyst composite film for malachite green degradation with simultaneous hydrogen production. <i>Journal of Power Sources</i> , 2020, 469, 228430.	7.8	53
15	Investigation on photocatalytic degradation of ethyl violet dyestuff using visible light in the presence of ordinary rutile TiO ₂ catalyst doped with upconversion luminescence agent. <i>Water Research</i> , 2006, 40, 2143-2150.	11.3	52
16	Preparation of N,F-codoped TiO ₂ nanoparticles by three different methods and comparison of visible-light photocatalytic performances. <i>Separation and Purification Technology</i> , 2017, 175, 305-313.	7.9	45
17	Construction of novel Z-scheme Ag/ZnFe ₂ O ₄ /Ag/BiTa _{1-x} V _x O ₄ system with enhanced electron transfer capacity for visible light photocatalytic degradation of sulfanilamide. <i>Journal of Hazardous Materials</i> , 2019, 375, 161-173.	12.4	45
18	Investigation on degradation of azo fuchsine using visible light in the presence of heat-treated anatase TiO ₂ powder. <i>Dyes and Pigments</i> , 2007, 75, 335-343.	3.7	42

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19	Investigation on rapid degradation of sodium dodecyl benzene sulfonate (SDBS) under microwave irradiation in the presence of modified activated carbon powder with ferrous sulfate. <i>Desalination</i> , 2009, 249, 1022-1029.	8.2	37
20	Confirmation of hydroxyl radicals ($\cdot\text{OH}$) generated in the presence of TiO_2 supported on AC under microwave irradiation. <i>Journal of Hazardous Materials</i> , 2014, 278, 152-157.	12.4	36
21	Construction of high-proportion ternary dual Z-scheme $\text{Co}_3\text{O}_4/\text{NiCo}_2\text{O}_4/\text{NiO}$ photocatalytic system via incomplete solid phase chemical reactions of $\text{Co}(\text{OH})_2$ and $\text{Ni}(\text{OH})_2$ for organic pollutant degradation with simultaneous hydrogen production. <i>Journal of Power Sources</i> , 2021, 506, 230159.	7.8	31
22	Investigation on interaction of DNA and several cationic surfactants with different head groups by spectroscopy, gel electrophoresis and viscosity technologies. <i>Chemosphere</i> , 2017, 168, 599-605.	8.2	20
23	Preparation of high proportion of Z-scheme $\text{Er}^{3+}:\text{Y}_3\text{Al}_5\text{O}_{12}/\text{Nb}_2\text{O}_5/\text{Pt}/\text{In}_2\text{O}_3$ composite for enhanced visible-light driven photocatalytic hydrogen production. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 257, 114549.	3.5	20
24	Bimetal Cu and Pd decorated Z-scheme $\text{NiGa}_2\text{O}_4/\text{BiVO}_4$ photocatalyst for conversion of nitride and sulfide dyes to $(\text{NH}_4)_2\text{SO}_4$. <i>Separation and Purification Technology</i> , 2020, 231, 115890.	7.9	18
25	Solar photocatalytic degradation of dye wastewater in the presence of heat-treated anatase TiO_2 powder. <i>Environmental Progress</i> , 2008, 27, 242-249.	0.7	16
26	Fixed Z-scheme $\text{TiO}_2/\text{Ti}/\text{WO}_3$ composite film as recyclable and reusable photocatalyst for highly effective hydrogen production. <i>Optical Materials</i> , 2020, 99, 109545.	3.6	16
27	Enhanced visible-light photocatalytic hydrogen evolution activity of $\text{Er}^{3+}:\text{Y}_3\text{Al}_5\text{O}_{12}/\text{PdS}/\text{ZnS}$ by conduction band co-catalysts (MoO_2 , MoS_2 and MoSe_2). <i>International Journal of Hydrogen Energy</i> , 2016, 41, 12826-12835.	7.1	15
28	Preparation of new visible-light driven nanocomposite photocatalysts, $\text{X}/\text{NaTaO}_3/\text{Er}^{3+}:\text{YAlO}_3$ ($\text{X} = \text{Ag}$). <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i> , 2017, 54, 398-407.	5.8	14
29	A novel Z-scheme $\text{Er}^{3+}:\text{YAlO}_3/\text{Ta}_2\text{O}_5\text{-CaIn}_2\text{S}_4/\text{MoSe}_2$ -reduced graphene oxide photocatalyst with superior photocatalytic hydrogen evolution activity. <i>Renewable Energy</i> , 2017, 111, 628-637.	8.9	13
30	A new visible-light-induced Z-scheme photocatalytic system: $\text{Er}^{3+}:\text{Y}_3\text{Al}_5\text{O}_{12}/(\text{MoS}_2/\text{NiGa}_2\text{O}_4)-(\text{BiVO}_4/\text{PdS})$ for refractory pollutant degradation with simultaneous hydrogen evolution. <i>Molecular Catalysis</i> , 2017, 441, 10-20.	2.0	12
31	Visible-light-driven mitigation of antibiotic oxytetracycline and disinfection of <i>Escherichia coli</i> using magnetic recyclable Ag^+ -modified zinc ferrite/diatomite ternary hybrid material. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2537-2546.	3.2	12
32	Spectroscopic study on interaction between three cationic surfactants with different alkyl chain lengths and DNA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 151, 237-246.	3.9	11
33	Spectroscopic study on interaction between bisphenol A or its degraded solution under microwave irradiation in the presence of activated carbon and human serum albumin. <i>Journal of Luminescence</i> , 2011, 131, 1386-1392.	3.1	10
34	Fabrication of novel immobilized and forced Z-scheme $\text{Ag}/\text{AgNbO}_3/\text{Ag}/\text{Er}^{3+}:\text{YAlO}_3/\text{Nb}_2\text{O}_5$ nanocomposite film photocatalyst for enhanced degradation of auramine O with synchronous evolution of pure hydrogen. <i>Separation and Purification Technology</i> , 2022, 288, 120658.	7.9	10
35	Assisted activated carbon-microwave degradation of the sodium dodecyl benzene sulfonate by nano- Fe_3O_4 and comparison of their catalytic activity. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 181-186.	2.3	8
36	The Fabrication of Magnetically Recyclable La-Doped $\text{TiO}_2/\text{Calcium Ferrite}/\text{Diatomite}$ Composite for Visible-Light-Driven Degradation of Antibiotic and Disinfection of Bacteria. <i>Environmental Engineering Science</i> , 2020, 37, 109-119.	1.6	6

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37	Fabrication of black TiO ₂ /CuFe ₂ O ₄ decorated on diatomaceous earth with enhanced sonocatalytic activity for ibuprofen mitigation. <i>Catalysis Science and Technology</i> , 2020, 10, 7922-7939.	4.1	6
38	Construction of novel microwave-photo dual responsive Z-scheme CdWO ₄ /ZnFe ₂ O ₄ system using isoelectric point method for antibiotic degradation and mechanism perspective. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108220.	6.7	3