

Guangshan Zhang

List of Publications by Year in descending order

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87
papers

5,806
citations

70961

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74018

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docs citations

88
times ranked

5193
citing authors

#	ARTICLE	IF	CITATIONS
1	Degradation of tetracycline hydrochloride by ultrafine TiO ₂ nanoparticles modified g-C ₃ N ₄ heterojunction photocatalyst: Influencing factors, products and mechanism insight. <i>Chinese Chemical Letters</i> , 2022, 33, 1337-1342.	4.8	43
2	Effective lead passivation in soil by bone char/CMC-stabilized FeS composite loading with phosphate-solubilizing bacteria. <i>Journal of Hazardous Materials</i> , 2022, 423, 127043.	6.5	104
3	One-step synthesis of a 3D/2D Bi ₂ WO ₆ /g-C ₃ N ₄ heterojunction for effective photocatalytic degradation of atrazine: Kinetics, degradation mechanisms and ecotoxicity. <i>Separation and Purification Technology</i> , 2022, 288, 120609.	3.9	35
4	Microwave-assisted one-pot synthesis of β -cyclodextrin modified biochar for stabilization of Cd and Pb in soil. <i>Journal of Cleaner Production</i> , 2022, 346, 131165.	4.6	41
5	Concurrent elimination and stepwise recovery of Pb(II) and bisphenol A from water using β -cyclodextrin modified magnetic cellulose: adsorption performance and mechanism investigation. <i>Journal of Hazardous Materials</i> , 2022, 432, 128758.	6.5	62
6	Efficient peroxymonosulfate activation by CuO-Fe ₂ O ₃ /MXene composite for atrazine degradation: Performance, coexisting matter influence and mechanism. <i>Chemical Engineering Journal</i> , 2022, 440, 135863.	6.6	51
7	Recent advances in persulfate-based advanced oxidation processes for organic wastewater treatment. <i>Chinese Chemical Letters</i> , 2022, 33, 4461-4477.	4.8	118
8	Pinecone-derived magnetic porous hydrochar co-activated by KHCO ₃ and K ₂ FeO ₄ for Cr(VI) and anthracene removal from water. <i>Environmental Pollution</i> , 2022, 306, 119457.	3.7	9
9	Effect of dielectric barrier discharge plasma on persulfate activation for rapid degradation of atrazine: Optimization, mechanism and energy consumption. <i>Environmental Research</i> , 2022, 212, 113287.	3.7	10
10	Efficient degradation of 4-fluorophenol under dielectric barrier discharge plasma treatment using Cu/Fe-AO-PAN catalyst: Role of H ₂ O ₂ production. <i>Chemical Engineering Journal</i> , 2021, 420, 127577.	6.6	6
11	High efficiency heterogeneous Fenton-like catalyst biochar modified CuFeO ₂ for the degradation of tetracycline: Economical synthesis, catalytic performance and mechanism. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119386.	10.8	318
12	Green synthesis of hydrophilic activated carbon supported sulfide nZVI for enhanced Pb(II) scavenging from water: Characterization, kinetics, isotherms and mechanisms. <i>Journal of Hazardous Materials</i> , 2021, 403, 123607.	6.5	139
13	Submerged membrane photocatalytic reactor for advanced treatment of p-nitrophenol wastewater through visible-light-driven photo-Fenton reactions. <i>Separation and Purification Technology</i> , 2021, 256, 117783.	3.9	31
14	Facile synthesis of Ag ₂ O/ZnO/rGO heterojunction with enhanced photocatalytic activity under simulated solar light: Kinetics and mechanism. <i>Journal of Hazardous Materials</i> , 2021, 403, 124011.	6.5	103
15	Removal of 4-fluorophenol by dielectric barrier discharge plasma in three different structures: Comparison, optimization and mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105160.	3.3	3
16	Editorial: Sulfate Radical-Based Advanced Oxidation Processes for Water and Wastewater Treatment. <i>Frontiers in Chemistry</i> , 2021, 9, 691005.	1.8	3
17	Enhanced 4-FP removal with MnFe ₂ O ₄ catalysts under dielectric barrier discharge plasma: Economical synthesis, catalytic performance and degradation mechanism. <i>Journal of Hazardous Materials</i> , 2021, 414, 125602.	6.5	31
18	Adsorption of 4-chlorophenol by wheat straw biochar and its regeneration with persulfate under microwave irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105353.	3.3	20

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19	Photocatalytic PVDF ultrafiltration membrane blended with visible-light responsive Fe(III)-TiO ₂ catalyst: Degradation kinetics, catalytic performance and reusability. <i>Chemical Engineering Journal</i> , 2021, 417, 129340.	6.6	67
20	Catalytic activation of peroxydisulfate by alfalfa-derived nitrogen self-doped porous carbon supported CuFeO ₂ for nimesulide degradation: Performance, mechanism and DFT calculation. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120247.	10.8	71
21	Catalytic degradation of p-nitrophenol by magnetically recoverable Fe ₃ O ₄ as a persulfate activator under microwave irradiation. <i>Chemosphere</i> , 2020, 240, 124977.	4.2	79
22	Microwave-responsive catalysts for wastewater treatment: A review. <i>Chemical Engineering Journal</i> , 2020, 382, 122781.	6.6	92
23	Enhanced persulfate oxidation of organic pollutants and removal of total organic carbons using natural magnetite and microwave irradiation. <i>Chemical Engineering Journal</i> , 2020, 383, 123140.	6.6	44
24	A Review Study on Sulfate-Radical-Based Advanced Oxidation Processes for Domestic/Industrial Wastewater Treatment: Degradation, Efficiency, and Mechanism. <i>Frontiers in Chemistry</i> , 2020, 8, 592056.	1.8	131
25	Synthesis of Surfactant-Assisted C/Fe@FeVO ₄ Nanostructure: Characterization and Photocatalytic Degradation of Ciprofloxacin. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5636-5641.	0.9	4
26	Simultaneously enhanced removal and stepwise recovery of atrazine and Pb(II) from water using β -cyclodextrin functionalized cellulose: Characterization, adsorptive performance and mechanism exploration. <i>Journal of Hazardous Materials</i> , 2020, 400, 123142.	6.5	67
27	Enhanced degradation of PFOA in water by dielectric barrier discharge plasma in a coaxial cylindrical structure with the assistance of peroxymonosulfate. <i>Chemical Engineering Journal</i> , 2020, 389, 124381.	6.6	66
28	Visible-light-driven photo-Fenton reactions using Zn _{1-1.5} Fe S/g-C ₃ N ₄ photocatalyst: Degradation kinetics and mechanisms analysis. <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118653.	10.8	135
29	Enhanced visible light photocatalytic performance with metal-doped Bi ₂ WO ₆ for typical fluoroquinolones degradation: Efficiencies, pathways and mechanisms. <i>Chemosphere</i> , 2020, 252, 126577.	4.2	52
30	The application of microwaves in sulfate radical-based advanced oxidation processes for environmental remediation: A review. <i>Science of the Total Environment</i> , 2020, 722, 137831.	3.9	77
31	One-pot hydrothermal synthesis of NaLa(CO ₃) ₂ decorated magnetic biochar for efficient phosphate removal from water: Kinetics, isotherms, thermodynamics, mechanisms and reusability exploration. <i>Chemical Engineering Journal</i> , 2020, 394, 124915.	6.6	152
32	Degradation of polyacrylamide in an ultrasonic-Fenton-like process using an acid-modified coal fly ash catalyst. <i>Powder Technology</i> , 2020, 369, 270-278.	2.1	19
33	Application of nickel foam-supported Co ₃ O ₄ -Bi ₂ O ₃ as a heterogeneous catalyst for BPA removal by peroxymonosulfate activation. <i>Science of the Total Environment</i> , 2019, 647, 352-361.	3.9	134
34	Facile and rapid microwave-assisted preparation of Cu/Fe-AO-PAN fiber for PNP degradation in a photo-Fenton system under visible light irradiation. <i>Separation and Purification Technology</i> , 2019, 209, 270-278.	3.9	30
35	Visible-light responsive g-C ₃ N ₄ coupled with ZnS nanoparticles via a rapid microwave route: Characterization and enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2019, 488, 360-369.	3.1	34
36	Effect of peroxydisulfate on the degradation of phenol under dielectric barrier discharge plasma treatment. <i>Chemosphere</i> , 2019, 232, 462-470.	4.2	23

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37	Effect of Microwave Heating on Persulfate Activation for Rapid Degradation and Mineralization of <i>p</i> -Nitrophenol. ACS Sustainable Chemistry and Engineering, 2019, 7, 11662-11671.	3.2	65
38	Visible-light-driven photocatalytic disinfection mechanism of Pb-BiFeO ₃ /rGO photocatalyst. Water Research, 2019, 161, 251-261.	5.3	91
39	Photocatalytic oxidation of norfloxacin by Zn _{0.9} Fe _{0.1} S supported on Ni-foam under visible light irradiation. Chemosphere, 2019, 230, 406-415.	4.2	32
40	Visualized Fibrous Adsorbent Prepared by the Microwave-Assisted Method for Both Detection and Removal of Heavy Metal Ions. ACS Sustainable Chemistry and Engineering, 2019, 7, 1159-1168.	3.2	25
41	Microwave-assisted synthesis of ZnNiAl-layered double hydroxides with calcination treatment for enhanced PNP photo-degradation under visible-light irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 633-641.	2.0	27
42	4-(2-Pyridylazo)-resorcinol-functionalized polyacrylonitrile fiber through a microwave irradiation method for the simultaneous optical detection and removal of heavy metals from water. Environmental Science: Water Research and Technology, 2018, 4, 487-492.	1.2	5
43	Synthesis of Co ₃ O ₄ -Bi ₂ O ₃ using microwave-assisted method as the peroxymonosulfate activator for elimination of bisphenol A. Environmental Science and Pollution Research, 2018, 25, 4656-4666.	2.7	10
44	Enhanced degradation of Bisphenol A (BPA) by peroxymonosulfate with Co ₃ O ₄ -Bi ₂ O ₃ catalyst activation: Effects of pH, inorganic anions, and water matrix. Chemical Engineering Journal, 2018, 338, 300-310.	6.6	332
45	Application of BiFeO ₃ -based on nickel foam composites with a highly efficient catalytic activity and easily recyclable in Fenton-like process under microwave irradiation. Journal of Power Sources, 2018, 386, 21-27.	4.0	27
46	One-pot microwave-assisted synthesis of Zn _{0.9} Fe _{0.1} S photocatalyst and its performance for the removal of bisphenol A. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 665-672.	2.0	6
47	Effect and mechanism of microwave-activated ultraviolet-advanced oxidation technology for adsorbent regeneration. Environmental Science and Pollution Research, 2018, 25, 290-298.	2.7	4
48	Ce-Mn modify Al ₂ O ₃ adsorbent and the effect on adsorption and regeneration properties. Environmental Science and Pollution Research, 2018, 25, 22818-22828.	2.7	9
49	Characterization of visible-light photo-Fenton reactions using Fe-doped ZnS (Fe _x -ZnS) mesoporous microspheres. Physical Chemistry Chemical Physics, 2018, 20, 18601-18609.	1.3	20
50	Reactive Photo-Fenton ceramic membranes: Synthesis, characterization and antifouling performance. Water Research, 2018, 144, 690-698.	5.3	89
51	Photocatalytic degradation of perfluorooctanoic acid over Pb-BiFeO ₃ /rGO catalyst: Kinetics and mechanism. Chemosphere, 2018, 211, 34-43.	4.2	61
52	Optimization of the catalytic activity of a ZnCo ₂ O ₄ catalyst in peroxymonosulfate activation for bisphenol A removal using response surface methodology. Chemosphere, 2018, 212, 152-161.	4.2	55
53	Enhanced catalytic degradation of methylene blue by γ -Fe ₂ O ₃ /graphene oxide via heterogeneous photo-Fenton reactions. Applied Catalysis B: Environmental, 2017, 206, 642-652.	10.8	372
54	Disinfection of municipal secondary effluents with microwave-induced electrodeless ultraviolet irradiation for water reuse. Journal of Chemical Technology and Biotechnology, 2017, 92, 1017-1025.	1.6	10

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55	Photocatalytic Fe-doped TiO ₂ /PSF composite UF membranes: Characterization and performance on BPA removal under visible-light irradiation. <i>Chemical Engineering Journal</i> , 2017, 319, 39-47.	6.6	110
56	Microwave enhanced Fenton-like process for degradation of perfluorooctanoic acid (PFOA) using Pb-BiFeO ₃ /rGO as heterogeneous catalyst. <i>Chemical Engineering Journal</i> , 2017, 326, 756-764.	6.6	116
57	Facile synthesis of novel Co ₃ O ₄ -Bi ₂ O ₃ catalysts and their catalytic activity on bisphenol A by peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2017, 326, 1095-1104.	6.6	139
58	Adsorption and one-step degradation-regeneration of 4-amino-5-hydroxynaphthalene-2,7-disulfonic acid using biochar-based BiFeO ₃ nanocomposites. <i>Bioresource Technology</i> , 2017, 245, 1103-1109.	4.8	20
59	Stability of BiFeO ₃ nanoparticles via microwave-assisted hydrothermal synthesis in Fenton-like process. <i>Environmental Science and Pollution Research</i> , 2017, 24, 24400-24408.	2.7	11
60	Microwave Assisted Preparation of Thio-Functionalized Polyacrylonitrile Fiber for the Selective and Enhanced Adsorption of Mercury and Cadmium from Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6054-6063.	3.2	70
61	Synthesis of a novel magnetic nano-scale biosorbent using extracellular polymeric substances from <i>Klebsiella</i> sp. J1 for tetracycline adsorption. <i>Bioresource Technology</i> , 2017, 245, 471-476.	4.8	45
62	The effect of calcination temperature on the performance of Co ₃ O ₄ -Bi ₂ O ₃ as a heterogeneous catalyst of peroxymonosulfate. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 94, 012029.	0.2	0
63	Microwave-assisted synthesis of BiFeO ₃ nanoparticles with high catalytic performance in microwave-enhanced Fenton-like process. <i>RSC Advances</i> , 2016, 6, 82439-82446.	1.7	33
64	Visible light responsive Fe-Zn/nickel foam photocatalyst with enhanced photocatalytic activity and stability. <i>RSC Advances</i> , 2016, 6, 93370-93373.	1.7	7
65	Rapid and effective preparation of a HPEI modified biosorbent based on cellulose fiber with a microwave irradiation method for enhanced arsenic removal in water. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15851-15860.	5.2	83
66	Effects of organic acids and initial solution pH on photocatalytic degradation of bisphenol A (BPA) in a photo-Fenton-like process using goethite (α-FeOOH). <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 1046-1053.	1.6	40
67	Optimization and Degradation Mechanism of Photocatalytic Removal of Bisphenol A Using Zn _{0.9} Fe _{0.1} S Synthesized by Microwave-assisted Method. <i>Photochemistry and Photobiology</i> , 2016, 92, 775-782.	1.3	12
68	Facile preparation of amidoxime-functionalized fiber by microwave-assisted method for the enhanced adsorption of chromium(VI) from aqueous solution. <i>RSC Advances</i> , 2016, 6, 64665-64675.	1.7	29
69	Enhanced As(III) removal at low concentrations by the combined pre-oxidation and nanofiltration membrane process. <i>Desalination and Water Treatment</i> , 2016, 57, 28947-28956.	1.0	4
70	Polyacrylonitrile-based fiber modified with thiosemicarbazide by microwave irradiation and its adsorption behavior for Cd(II) and Pb(II). <i>Journal of Hazardous Materials</i> , 2016, 307, 64-72.	6.5	119
71	A review on Fenton-like processes for organic wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 762-787.	3.3	678
72	Microwave-enhanced Mn-Fenton process for the removal of BPA in water. <i>Chemical Engineering Journal</i> , 2016, 294, 371-379.	6.6	114

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73	Removal of As(III) and As(V) from water using iron doped amino functionalized sawdust: Characterization, adsorptive performance and UF membrane separation. <i>Chemical Engineering Journal</i> , 2016, 292, 163-173.	6.6	60
74	Treatment of Antibiotic Pharmaceutical Wastewater Using a Rotating Biological Contactor. <i>Journal of Chemistry</i> , 2015, 2015, 1-8.	0.9	21
75	Controlled synthesis of Zn(1~1.5x)FexS nanoparticles via a microwave route and their photocatalytic properties. <i>RSC Advances</i> , 2015, 5, 106644-106650.	1.7	7
76	Degradation of p-nitrophenol using CuO/Al ₂ O ₃ as a Fenton-like catalyst under microwave irradiation. <i>RSC Advances</i> , 2015, 5, 27043-27051.	1.7	83
77	Preparation and performance of polyacrylonitrile fiber functionalized with iminodiacetic acid under microwave irradiation for adsorption of Cu(II) and Hg(II). <i>Chemical Engineering Journal</i> , 2015, 276, 349-357.	6.6	74
78	Efficient photocatalytic H ₂ production using visible-light irradiation and (CuAg) _x In ₂ Zn ₂ (1~2x)S ₂ photocatalysts with tunable band gaps. <i>International Journal of Energy Research</i> , 2014, 38, 1513-1521.	3.4	14
79	Effects of inorganic electron donors in photocatalytic hydrogen production over Ru/(CuAg) _{0.15} In _{0.3} Zn _{1.4} S ₂ under visible light irradiation. <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, 033131.	0.8	14
80	Preparation and properties of polyamide/titania composite nanofiltration membrane by interfacial polymerization. <i>Desalination</i> , 2014, 352, 38-44.	4.0	40
81	Optimization and Modeling of Photocatalytic Removal of Norfloxacin Using Tungsten Bismuth Loaded Carbon Iron Complexes Based on Response Surface Methodology. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10775-10783.	1.8	18
82	Stability of an H ₂ -producing photocatalyst (Ru/(CuAg) _{0.15} In _{0.3} Zn _{1.4} S ₂) in aqueous solution under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 1286-1296.	3.8	31
83	Photocatalytic hydrogen production under visible-light irradiation on (CuAg) _{0.15} In _{0.3} Zn _{1.4} S ₂ synthesized by precipitation and calcination. <i>Chinese Journal of Catalysis</i> , 2013, 34, 1926-1935.	6.9	22
84	The pH effects on H ₂ evolution kinetics for visible light water splitting over the Ru/(CuAg) _{0.15} In _{0.3} Zn _{1.4} S ₂ photocatalyst. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11727-11736.	3.8	35
85	Air pollution in the microenvironment of parked new cars. <i>Building and Environment</i> , 2008, 43, 315-319.	3.0	62
86	Air quality in passenger cars of the ground railway transit system in Beijing, China. <i>Science of the Total Environment</i> , 2006, 367, 89-95.	3.9	51
87	Rapid synthesis of multifunction composite adsorbent by microwave and evaluate with multiple value integration. , 0, 123, 129-137.		0