Guangshan Zhang

List of Publications by Year
in descending order

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87 papers	5,806 citations	70961 41 h-index	74018 75 g-index
88 all docs	88 docs citations	88 times ranked	5193 citing authors

#	Article	IF	Citations
1	A review on Fenton-like processes for organic wastewater treatment. Journal of Environmental Chemical Engineering, 2016, 4, 762-787.	3.3	678
2	Enhanced catalytic degradation of methylene blue by Î±-Fe2O3/graphene oxide via heterogeneous photo-Fenton reactions. Applied Catalysis B: Environmental, 2017, 206, 642-652.	10.8	372
3	Enhanced degradation of Bisphenol A (BPA) by peroxymonosulfate with Co3O4-Bi2O3 catalyst activation: Effects of pH, inorganic anions, and water matrix. Chemical Engineering Journal, 2018, 338, 300-310.	6.6	332
4	High efficiency heterogeneous Fenton-like catalyst biochar modified CuFeO2 for the degradation of tetracycline: Economical synthesis, catalytic performance and mechanism. Applied Catalysis B: Environmental, 2021, 280, 119386.	10.8	318
5	One-pot hydrothermal synthesis of NaLa(CO3)2 decorated magnetic biochar for efficient phosphate removal from water: Kinetics, isotherms, thermodynamics, mechanisms and reusability exploration. Chemical Engineering Journal, 2020, 394, 124915.	6.6	152
6	Facile synthesis of novel Co3O4-Bi2O3 catalysts and their catalytic activity on bisphenol A by peroxymonosulfate activation. Chemical Engineering Journal, 2017, 326, 1095-1104.	6.6	139
7	Green synthesis of hydrophilic activated carbon supported sulfide nZVI for enhanced Pb(II) scavenging from water: Characterization, kinetics, isotherms and mechanisms. Journal of Hazardous Materials, 2021, 403, 123607.	6.5	139
8	Visible-light-driven photo-Fenton reactions using Zn1-1.5Fe S/g-C3N4 photocatalyst: Degradation kinetics and mechanisms analysis. Applied Catalysis B: Environmental, 2020, 266, 118653.	10.8	135
9	Application of nickel foam-supported Co3O4-Bi2O3 as a heterogeneous catalyst for BPA removal by peroxymonosulfate activation. Science of the Total Environment, 2019, 647, 352-361.	3.9	134
10	A Review Study on Sulfate-Radical-Based Advanced Oxidation Processes for Domestic/Industrial Wastewater Treatment: Degradation, Efficiency, and Mechanism. Frontiers in Chemistry, 2020, 8, 592056.	1.8	131
11	Polyacrylonitrile-based fiber modified with thiosemicarbazide by microwave irradiation and its adsorption behavior for Cd(II) and Pb(II). Journal of Hazardous Materials, 2016, 307, 64-72.	6.5	119
12	Recent advances in persulfate-based advanced oxidation processes for organic wastewater treatment. Chinese Chemical Letters, 2022, 33, 4461-4477.	4.8	118
13	Microwave enhanced Fenton-like process for degradation of perfluorooctanoic acid (PFOA) using Pb-BiFeO3/rGO as heterogeneous catalyst. Chemical Engineering Journal, 2017, 326, 756-764.	6.6	116
14	Microwave-enhanced Mn-Fenton process for the removal of BPA in water. Chemical Engineering Journal, 2016, 294, 371-379.	6.6	114
15	Photocatalytic Fe-doped TiO2/PSF composite UF membranes: Characterization and performance on BPA removal under visible-light irradiation. Chemical Engineering Journal, 2017, 319, 39-47.	6.6	110
16	Effective lead passivation in soil by bone char/CMC-stabilized FeS composite loading with phosphate-solubilizing bacteria. Journal of Hazardous Materials, 2022, 423, 127043.	6.5	104
17	Facile synthesis of Ag2O/ZnO/rGO heterojunction with enhanced photocatalytic activity under simulated solar light: Kinetics and mechanism. Journal of Hazardous Materials, 2021, 403, 124011.	6.5	103
18	Microwave-responsive catalysts for wastewater treatment: A review. Chemical Engineering Journal, 2020, 382, 122781.	6.6	92

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19	Visible-light-driven photocatalytic disinfection mechanism of Pb-BiFeO3/rGO photocatalyst. Water Research, 2019, 161, 251-261.	5.3	91
20	Reactive Photo-Fenton ceramic membranes: Synthesis, characterization and antifouling performance. Water Research, 2018, 144, 690-698.	5.3	89
21	Degradation of p-nitrophenol using CuO/Al₂O₃ as a Fenton-like catalyst under microwave irradiation. RSC Advances, 2015, 5, 27043-27051.	1.7	83
22	Rapid and effective preparation of a HPEI modified biosorbent based on cellulose fiber with a microwave irradiation method for enhanced arsenic removal in water. Journal of Materials Chemistry A, 2016, 4, 15851-15860.	5.2	83
23	Catalytic degradation of p-nitrophenol by magnetically recoverable Fe3O4 as a persulfate activator under microwave irradiation. Chemosphere, 2020, 240, 124977.	4.2	79
24	The application of microwaves in sulfate radical-based advanced oxidation processes for environmental remediation: A review. Science of the Total Environment, 2020, 722, 137831.	3.9	77
25	Preparation and performance of polyacrylonitrile fiber functionalized with iminodiacetic acid under microwave irradiation for adsorption of Cu(II) and Hg(II). Chemical Engineering Journal, 2015, 276, 349-357.	6.6	74
26	Catalytic activation of peroxydisulfate by alfalfa-derived nitrogen self-doped porous carbon supported CuFeO2 for nimesulide degradation: Performance, mechanism and DFT calculation. Applied Catalysis B: Environmental, 2021, 294, 120247.	10.8	71
27	Microwave Assisted Preparation of Thio-Functionalized Polyacrylonitrile Fiber for the Selective and Enhanced Adsorption of Mercury and Cadmium from Water. ACS Sustainable Chemistry and Engineering, 2017, 5, 6054-6063.	3.2	70
28	Simultaneously enhanced removal and stepwise recovery of atrazine and Pb(II) from water using Î²â€“cyclodextrin functionalized cellulose: Characterization, adsorptive performance and mechanism exploration. Journal of Hazardous Materials, 2020, 400, 123142.	6.5	67
29	Photocatalytic PVDF ultrafiltration membrane blended with visible-light responsive Fe(III)-TiO2 catalyst: Degradation kinetics, catalytic performance and reusability. Chemical Engineering Journal, 2021, 417, 129340.	6.6	67
30	Enhanced degradation of PFOA in water by dielectric barrier discharge plasma in a coaxial cylindrical structure with the assistance of peroxymonosulfate. Chemical Engineering Journal, 2020, 389, 124381.	6.6	66
31	Effect of Microwave Heating on Persulfate Activation for Rapid Degradation and Mineralization of p-Nitrophenol. ACS Sustainable Chemistry and Engineering, 2019, 7, 11662-11671.	3.2	65
32	Air pollution in the microenvironment of parked new cars. Building and Environment, 2008, 43, 315-319.	3.0	62
33	Concurrent elimination and stepwise recovery of Pb(II) and bisphenol A from water using Î²â€“cyclodextrin modified magnetic cellulose: adsorption performance and mechanism investigation. Journal of Hazardous Materials, 2022, 432, 128758.	6.5	62
34	Photocatalytic degradation of perfluorooctanoic acid over Pb-BiFeO3/rGO catalyst: Kinetics and mechanism. Chemosphere, 2018, 211, 34-43.	4.2	61
35	Removal of As(III) and As(V) from water using iron doped amino functionalized sawdust: Characterization, adsorptive performance and UF membrane separation. Chemical Engineering Journal, 2016, 292, 163-173.	6.6	60
36	Optimization of the catalytic activity of a ZnCo2O4 catalyst in peroxymonosulfate activation for bisphenol A removal using response surface methodology. Chemosphere, 2018, 212, 152-161.	4.2	55

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37	Enhanced visible light photocatalytic performance with metal-doped Bi2WO6 for typical fluoroquinolones degradation: Efficiencies, pathways and mechanisms. Chemosphere, 2020, 252, 126577.	4.2	52
38	Air quality in passenger cars of the ground railway transit system in Beijing, Chinaâˆ†. Science of the Total Environment, 2006, 367, 89-95.	3.9	51
39	Efficient peroxymonosulfate activation by CuO-Fe2O3/MXene composite for atrazine degradation: Performance, coexisting matter influence and mechanism. Chemical Engineering Journal, 2022, 440, 135863.	6.6	51
40	Synthesis of a novel magnetic nano-scale biosorbent using extracellular polymeric substances from Klebsiella sp. J1 for tetracycline adsorption. Bioresource Technology, 2017, 245, 471-476.	4.8	45
41	Enhanced persulfate oxidation of organic pollutants and removal of total organic carbons using natural magnetite and microwave irradiation. Chemical Engineering Journal, 2020, 383, 123140.	6.6	44
42	Degradation of tetracycline hydrochloride by ultrafine TiO2 nanoparticles modified g-C3N4 heterojunction photocatalyst: Influencing factors, products and mechanism insight. Chinese Chemical Letters, 2022, 33, 1337-1342.	4.8	43
43	Microwave-assisted one-pot synthesis of Î²-cyclodextrin modified biochar for stabilization of Cd and Pb in soil. Journal of Cleaner Production, 2022, 346, 131165.	4.6	41
44	Preparation and properties of polyamide/titania composite nanofiltration membrane by interfacial polymerization. Desalination, 2014, 352, 38-44.	4.0	40
45	Effects of organic acids and initial solution pH on photocatalytic degradation of bisphenol A (BPA) in a photo-Fenton-like process using goethite (Î±-FeOOH). Photochemical and Photobiological Sciences, 2016, 15, 1046-1053.	1.6	40
46	The pH effects on H2 evolution kinetics for visible light water splitting over the Ru/(CuAg)0.15In0.3Zn1.4S2 photocatalyst. International Journal of Hydrogen Energy, 2013, 38, 11727-11736.	3.8	35
47	One-step synthesis of a 3D/2D Bi2WO6/g-C3N4 heterojunction for effective photocatalytic degradation of atrazine: Kinetics, degradation mechanisms and ecotoxicity. Separation and Purification Technology, 2022, 288, 120609.	3.9	35
48	Visible-light responsive g-C3N4 coupled with ZnS nanoparticles via a rapid microwave route: Characterization and enhanced photocatalytic activity. Applied Surface Science, 2019, 488, 360-369.	3.1	34
49	Microwave-assisted synthesis of BiFeO₃nanoparticles with high catalytic performance in microwave-enhanced Fenton-like process. RSC Advances, 2016, 6, 82439-82446.	1.7	33
50	Photocatalytic oxidation of norfloxacin by Zn0.9Fe0.1S supported on Ni-foam under visible light irradiation. Chemosphere, 2019, 230, 406-415.	4.2	32
51	Stability of an H2-producing photocatalyst (Ru/(CuAg)0.15In0.3Zn1.4S2) in aqueous solution under visible light irradiation. International Journal of Hydrogen Energy, 2013, 38, 1286-1296.	3.8	31
52	Submerged membrane photocatalytic reactor for advanced treatment of p-nitrophenol wastewater through visible-light-driven photo-Fenton reactions. Separation and Purification Technology, 2021, 256, 117783.	3.9	31
53	Enhanced 4-FP removal with MnFe2O4 catalysts under dielectric barrier discharge plasma: Economical synthesis, catalytic performance and degradation mechanism. Journal of Hazardous Materials, 2021, 414, 125602.	6.5	31
54	Facile and rapid microwave-assisted preparation of Cu/Fe-AO-PAN fiber for PNP degradation in a photo-Fenton system under visible light irradiation. Separation and Purification Technology, 2019, 209, 270-278.	3.9	30

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55	Facile preparation of amidoxime-functionalized fiber by microwave-assisted method for the enhanced adsorption of chromium(<scp>vi</scp>) from aqueous solution. RSC Advances, 2016, 6, 64665-64675.	1.7	29
56	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
57	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
58	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
59	Effect of peroxydisulfate on the degradation of phenol under dielectric barrier discharge plasma treatment. Chemosphere, 2019, 232, 462-470.	4.2	23
60	Photocatalytic hydrogen production under visible-light irradiation on (CuAg)0.15In0.3Zn1.4S2 synthesized by precipitation and calcination. Chinese Journal of Catalysis, 2013, 34, 1926-1935.	6.9	22
61	Treatment of Antibiotic Pharmaceutical Wastewater Using a Rotating Biological Contactor. Journal of Chemistry, 2015, 2015, 1-8.	0.9	21
62	Adsorption and one-step degradation-regeneration of 4-amino-5-hydroxynaphthalene-2,7-disulfonic acid using biochar-based BiFeO3 nanocomposites. Bioresource Technology, 2017, 245, 1103-1109.	4.8	20
63	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
64	Adsorption of 4-chlorophenol by wheat straw biochar and its regeneration with persulfate under microwave irradiation. Journal of Environmental Chemical Engineering, 2021, 9, 105353.	3.3	20
65	Degradation of polyacrylamide in an ultrasonic-Fenton-like process using an acid-modified coal fly ash catalyst. Powder Technology, 2020, 369, 270-278.	2.1	19
66	Optimization and Modeling of Photocatalytic Removal of Norfloxacin Using Tungsten Bismuth Loaded Carbon Iron Complexes Based on Response Surface Methodology. Industrial & Engineering Chemistry Research, 2014, 53, 10775-10783.	1.8	18
67	Efficient photocatalytic H₂production using visible-light irradiation and (CuAg)_xIn_{2x}Zn_{2(1â€‰âˆ’â€‰2x)}S₂photocatalysts with tunable band gaps. International Journal of Energy Research, 2014, 38, 1513-1521.	2.0	14
68	Effects of inorganic electron donors in photocatalytic hydrogen production over Ru/(CuAg)0.15In0.3Zn1.4S2 under visible light irradiation. Journal of Renewable and Sustainable Energy, 2014, 6, 033131.	0.8	14
69	Optimization and Degradation Mechanism of Photocatalytic Removal of Bisphenol A Using Zn_{0.9}Fe_{0.1}S Synthesized by Microwaveâ€assisted Method. Photochemistry and Photobiology, 2016, 92, 775-782.	1.3	12
70	Stability of BiFeO3 nanoparticles via microwave-assisted hydrothermal synthesis in Fenton-like process. Environmental Science and Pollution Research, 2017, 24, 24400-24408.	2.7	11
71	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
72	Synthesis of Co3O4-Bi2O3 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

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73	Effect of dielectric barrier discharge plasma on persulfate activation for rapid degradation of atrazine: Optimization, mechanism and energy consumption. Environmental Research, 2022, 212, 113287.	3.7	10
74	Ce-Mn modify Al2O3 adsorbent and the effect on adsorption and regeneration properties. Environmental Science and Pollution Research, 2018, 25, 22818-22828.	2.7	9
75	Pinecone-derived magnetic porous hydrochar co-activated by KHCO3 and K2FeO4 for Cr(VI) and anthracene removal from water. Environmental Pollution, 2022, 306, 119457.	3.7	9
76	Controlled synthesis of Zn(1â^'1.5x)FexS nanoparticles via a microwave route and their photocatalytic properties. RSC Advances, 2015, 5, 106644-106650.	1.7	7
77	Visible light responsive Feâ€“ZnS/nickel foam photocatalyst with enhanced photocatalytic activity and stability. RSC Advances, 2016, 6, 93370-93373.	1.7	7
78	One-pot microwave-assisted synthesis of Zn0.9Fe0.1S photocatalyst and its performance for the removal of bisphenol A. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 665-672.	2.0	6
79	Efficient degradation of 4-fluorophenol under dielectric barrier discharge plasma treatment using Cu/Fe-AO-PAN catalyst: Role of H2O2 production. Chemical Engineering Journal, 2021, 420, 127577.	6.6	6
80	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
81	Enhanced As(III) removal at low concentrations by the combined pre-oxidation and nanofiltration membrane process. Desalination and Water Treatment, 2016, 57, 28947-28956.	1.0	4
82	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
83	Synthesis of Surfactant-Assisted C/Feâ€“FeVO₄ Nanostructure: Characterization and Photocatalytic Degradation of Ciprofloxacin. Journal of Nanoscience and Nanotechnology, 2020, 20, 5636-5641.	0.9	4
84	Removal of 4-fluorophenol by dielectric barrier discharge plasma in three different structures: Comparison, optimization and mechanism. Journal of Environmental Chemical Engineering, 2021, 9, 105160.	3.3	3
85	Editorial: Sulfate Radical-Based Advanced Oxidation Processes for Water and Wastewater Treatment. Frontiers in Chemistry, 2021, 9, 691005.	1.8	3
86	The effect of calcination temperature on the performance of Co3O4-Bi2O3 as a heterogeneous catalyst of peroxymonosulfate. IOP Conference Series: Earth and Environmental Science, 2017, 94, 012029.	0.2	0
87	Rapid synthesis of multifunction composite adsorbent by microwave and evaluate with multiple value integration. , 0, 123, 129-137.		0