

Peng Wang

List of Publications by Year in descending order

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77
papers

5,261
citations

81839

39
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85498

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docs citations

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times ranked

5209
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on Fenton-like processes for organic wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 762-787.	3.3	678
2	Preparation and characterization of activated carbon from bamboo by microwave-induced phosphoric acid activation. <i>Industrial Crops and Products</i> , 2010, 31, 233-238.	2.5	387
3	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. <i>Chemical Engineering Journal</i> , 2018, 338, 300-310.	6.6	332
4	Modification of bamboo-based activated carbon using microwave radiation and its effects on the adsorption of methylene blue. <i>Applied Surface Science</i> , 2010, 256, 3309-3315.	3.1	246
5	Study and application status of microwave in organic wastewater treatment – A review. <i>Chemical Engineering Journal</i> , 2016, 283, 193-214.	6.6	141
6	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
7	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
8	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
9	Microwave enhanced Fenton-like process for the treatment of high concentration pharmaceutical wastewater. <i>Journal of Hazardous Materials</i> , 2009, 168, 238-245.	6.5	123
10	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
11	Enhanced catalytic sulfamethoxazole degradation via peroxymonosulfate activation over amorphous Co _{Sx} @SiO ₂ nanocages derived from ZIF-67. <i>Journal of Hazardous Materials</i> , 2022, 423, 126998.	6.5	119
12	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
13	Microwave-enhanced Mn-Fenton process for the removal of BPA in water. <i>Chemical Engineering Journal</i> , 2016, 294, 371-379.	6.6	114
14	Removal of antibiotics using polyethylenimine cross-linked nanofiltration membranes: Relating membrane performance to surface charge characteristics. <i>Chemical Engineering Journal</i> , 2018, 335, 101-109.	6.6	111
15	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
16	Microwave-responsive catalysts for wastewater treatment: A review. <i>Chemical Engineering Journal</i> , 2020, 382, 122781.	6.6	92
17	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
18	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

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19	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
20	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
21	Synthesis of Mn-doped ZnS microspheres with enhanced visible light photocatalytic activity. <i>Applied Surface Science</i> , 2017, 391, 557-564.	3.1	76
22	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
23	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
24	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
25	Enhanced degradation of PFOA in water by dielectric barrier discharge plasma in a coaxial cylindrical structure with the assistance of peroxydisulfate. <i>Chemical Engineering Journal</i> , 2020, 389, 124381.	6.6	66
26	Effect of Microwave Heating on Persulfate Activation for Rapid Degradation and Mineralization of p-Nitrophenol. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11662-11671.	3.2	65
27	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
28	Optimization of the catalytic activity of a ZnCo ₂ O ₄ catalyst in peroxydisulfate activation for bisphenol A removal using response surface methodology. <i>Chemosphere</i> , 2018, 212, 152-161.	4.2	55
29	Degradation of remazol golden yellow dye wastewater in microwave enhanced ClO ₂ catalytic oxidation process. <i>Journal of Hazardous Materials</i> , 2009, 168, 895-900.	6.5	54
30	Efficient microwave-assisted photocatalytic degradation of endocrine disruptor dimethyl phthalate over composite catalyst ZrO _x /ZnO. <i>Journal of Environmental Sciences</i> , 2010, 22, 1800-1806.	3.2	54
31	Characterization of fluorescence foulants on ultrafiltration membrane using front-face excitation-emission matrix (FF-EEM) spectroscopy: Fouling evolution and mechanism analysis. <i>Water Research</i> , 2019, 148, 546-555.	5.3	52
32	Efficient peroxydisulfate 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
33	Treatment of phenol wastewater by microwave-induced ClO ₂ -CuO _x /Al ₂ O ₃ catalytic oxidation process. <i>Journal of Environmental Sciences</i> , 2007, 19, 1510-1515.	3.2	50
34	Cu(II)-Fe(II)-H ₂ O ₂ oxidative removal of 3-nitroaniline in water under microwave irradiation. <i>Chemical Engineering Journal</i> , 2015, 260, 386-392.	6.6	50
35	Pilot-scale treatment of p-Nitrophenol wastewater by microwave-enhanced Fenton oxidation process: Effects of system parameters and kinetics study. <i>Chemical Engineering Journal</i> , 2014, 239, 351-359.	6.6	49
36	Equilibrium and kinetics of aniline adsorption onto crosslinked sawdust-cyclodextrin polymers. <i>RSC Advances</i> , 2014, 4, 40071-40077.	1.7	44

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37	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
38	Enhancing the performance of polyethylenimine modified nanofiltration membrane by coating a layer of sulfonated poly(ether ether ketone) for removing sulfamerazine. <i>Journal of Membrane Science</i> , 2015, 492, 620-629.	4.1	43
39	Catalytic activity of CuO/La ₂ O ₃ -Al ₂ O ₃ for microwave assisted ClO ₂ catalytic oxidation of phenol wastewater. <i>Journal of Hazardous Materials</i> , 2008, 154, 543-549.	6.5	40
40	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
41	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
42	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
43	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
44	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
45	Photocatalytic oxidation of norfloxacin by Zn _{0.9} Fe _{0.1} S supported on Ni-foam under visible light irradiation. <i>Chemosphere</i> , 2019, 230, 406-415.	4.2	32
46	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
47	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
48	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
49	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
50	Effect of quorum quenching on biofouling and ammonia removal in membrane bioreactor under stressful conditions. <i>Chemosphere</i> , 2018, 199, 114-121.	4.2	28
51	Microwave-assisted synthesis of ZnNiAl-layered double hydroxides with calcination treatment for enhanced PNP photo-degradation under visible-light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 356, 633-641.	2.0	27
52	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. <i>Journal of Power Sources</i> , 2018, 386, 21-27.	4.0	27
53	Removal of As(III) from water using modified jute fibres as a hybrid adsorbent. <i>RSC Advances</i> , 2015, 5, 10723-10732.	1.7	25
54	Visualized Fibrous Adsorbent Prepared by the Microwave-Assisted Method for Both Detection and Removal of Heavy Metal Ions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1159-1168.	3.2	25

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55	Treatment of an industrial chemical waste water using a granular activated carbon adsorption-microwave regeneration process. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1004-1009.	1.6	24
56	Effect of peroxydisulfate on the degradation of phenol under dielectric barrier discharge plasma treatment. <i>Chemosphere</i> , 2019, 232, 462-470.	4.2	23
57	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
58	Study on preparation of microwave absorbing MnO _x /Al ₂ O ₃ adsorbent and degradation of adsorbed glyphosate in MW-UV system. <i>Chemical Engineering Journal</i> , 2016, 298, 68-74.	6.6	22
59	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
60	Characterization of visible-light photo-Fenton reactions using Fe-doped ZnS (Fe _x -ZnS) mesoporous microspheres. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18601-18609.	1.3	20
61	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
62	Microwave-Enhanced Fenton Process for DMSO-Containing Wastewater. <i>Environmental Engineering Science</i> , 2010, 27, 271-280.	0.8	18
63	Species distribution of ferric hydrolysates in microwave enhanced Fenton-like process and possible mechanism. <i>Journal of Hazardous Materials</i> , 2010, 178, 293-297.	6.5	17
64	A potentially low-cost modified sawdust (MSD) effective for rapid Cr(VI) and As(V) removal from water. <i>RSC Advances</i> , 2014, 4, 49569-49576.	1.7	17
65	Efficient photocatalytic H ₂ production using visible-light irradiation and (CuAg) _x In ₂ Zn ₂ (1-x) ₂ S ₂ photocatalysts with tunable band gaps. <i>International Journal of Energy Research</i> , 2014, 38, 1513-1521.		
66	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
67	Successive Extraction of As(V), Cu(II), and P(V) Ions from Water Using Surface Modified Ghee Residue Protein. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3742-3750.	3.2	14
68	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
69	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
70	Microwave-Assisted Photocatalytic Degradation of Dimethyl Phthalate Over a Novel ZrO _x Catalyst. <i>Environmental Engineering Science</i> , 2010, 27, 1001-1007.	0.8	10
71	Synthesis of Co ₃ O ₄ -Bi ₂ O ₃ using microwave-assisted method as the peroxymonosulfate activator for elimination of bisphenol A. <i>Environmental Science and Pollution Research</i> , 2018, 25, 4656-4666.	2.7	10
72	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

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73	Visible light responsive Fe ²⁺ /ZnS/nickel foam photocatalyst with enhanced photocatalytic activity and stability. RSC Advances, 2016, 6, 93370-93373.	1.7	7
74	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
75	Efficient degradation of 4-fluorophenol under dielectric barrier discharge plasma treatment using Cu/Fe-AO-PAN catalyst: Role of H ₂ O ₂ production. Chemical Engineering Journal, 2021, 420, 127577.	6.6	6
76	Synthesis of Surfactant-Assisted C/Fe ²⁺ /FeVO ₄ Nanostructure: Characterization and Photocatalytic Degradation of Ciprofloxacin. Journal of Nanoscience and Nanotechnology, 2020, 20, 5636-5641.	0.9	4
77	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