

Yaoyu Zhou

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235
papers

13,409
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73
h-index

108
g-index

245
ext. papers

17,321
ext. citations

8.7
avg, IF

7.02
L-index

#	Paper	IF	Citations
235	Insight into highly efficient simultaneous photocatalytic removal of Cr(VI) and 2,4-dichlorophenol under visible light irradiation by phosphorus doped porous ultrathin g-C ₃ N ₄ nanosheets from aqueous media: Performance and reaction mechanism. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 285-294	21.8	383
234	Modification of biochar derived from sawdust and its application in removal of tetracycline and copper from aqueous solution: Adsorption mechanism and modelling. <i>Bioresource Technology</i> , 2017 , 245, 266-273	11	372
233	Atomic scale g-C ₃ N ₄ /Bi ₂ WO ₆ 2D/2D heterojunction with enhanced photocatalytic degradation of ibuprofen under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 285-294	21.8	318
232	Adsorption of tetracycline antibiotics from aqueous solutions on nanocomposite multi-walled carbon nanotube functionalized MIL-53(Fe) as new adsorbent. <i>Science of the Total Environment</i> , 2018 , 627, 235-244	10.2	304
231	Efficacy of carbonaceous nanocomposites for sorbing ionizable antibiotic sulfamethazine from aqueous solution. <i>Water Research</i> , 2016 , 95, 103-12	12.5	260
230	Plasmonic Bi Metal Deposition and g-C ₃ N ₄ Coating on Bi ₂ WO ₆ Microspheres for Efficient Visible-Light Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1062-1072	8.3	238
229	One-step synthesis of Co-doped UiO-66 nanoparticle with enhanced removal efficiency of tetracycline: Simultaneous adsorption and photocatalysis. <i>Chemical Engineering Journal</i> , 2018 , 353, 126-137	14.7	227
228	Metal-free carbon materials-catalyzed sulfate radical-based advanced oxidation processes: A review on heterogeneous catalysts and applications. <i>Chemosphere</i> , 2017 , 189, 224-238	8.4	216
227	Adsorption of phosphate from aqueous solution using iron-zirconium modified activated carbon nanofiber: Performance and mechanism. <i>Journal of Colloid and Interface Science</i> , 2017 , 493, 17-23	9.3	206
226	Synergistic effect of iron doped ordered mesoporous carbon on adsorption-coupled reduction of hexavalent chromium and the relative mechanism study. <i>Chemical Engineering Journal</i> , 2014 , 239, 114-122	14.7	201
225	Insight into electro-Fenton and photo-Fenton for the degradation of antibiotics: Mechanism study and research gaps. <i>Chemical Engineering Journal</i> , 2018 , 347, 379-397	14.7	195
224	Iron Containing Metal-Organic Frameworks: Structure, Synthesis, and Applications in Environmental Remediation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20255-20275	9.5	186
223	Current progress in biosensors for heavy metal ions based on DNazymes/DNA molecules functionalized nanostructures: A review. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 280-294	8.5	180
222	Effective removal of Cr(VI) using β -cyclodextrin β -chitosan modified biochars with adsorption/reduction bifunctional roles. <i>RSC Advances</i> , 2016 , 6, 94-104	3.7	174
221	Enhanced photocatalytic degradation of norfloxacin in aqueous Bi ₂ WO ₆ dispersions containing nonionic surfactant under visible light irradiation. <i>Journal of Hazardous Materials</i> , 2016 , 306, 295-304	12.8	173
220	Construction of plasmonic Ag modified phosphorous-doped ultrathin g-CN nanosheets/BiVO ₄ photocatalyst with enhanced visible-near-infrared response ability for ciprofloxacin degradation. <i>Journal of Hazardous Materials</i> , 2018 , 344, 758-769	12.8	169
219	Plasmonic resonance excited dual Z-scheme BiVO ₄ /Ag/Cu ₂ O nanocomposite: synthesis and mechanism for enhanced photocatalytic performance in recalcitrant antibiotic degradation. <i>Environmental Science: Nano</i> , 2017 , 4, 1494-1511	7.1	168

218	Multi-walled carbon nanotube/amino-functionalized MIL-53(Fe) composites: Remarkable adsorptive removal of antibiotics from aqueous solutions. <i>Chemosphere</i> , 2018 , 210, 1061-1069	8.4	167
217	Carbon-based materials as adsorbent for antibiotics removal: Mechanisms and influencing factors. <i>Journal of Environmental Management</i> , 2019 , 237, 128-138	7.9	154
216	Selenium contamination, consequences and remediation techniques in water and soils: A review. <i>Environmental Research</i> , 2018 , 164, 288-301	7.9	150
215	A visual application of gold nanoparticles: Simple, reliable and sensitive detection of kanamycin based on hydrogen-bonding recognition. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 946-954	8.5	147
214	Enhancement of Cd(II) adsorption by polyacrylic acid modified magnetic mesoporous carbon. <i>Chemical Engineering Journal</i> , 2015 , 259, 153-160	14.7	142
213	Electrocatalytic properties of N-doped graphite felt in electro-Fenton process and degradation mechanism of levofloxacin. <i>Chemosphere</i> , 2017 , 182, 306-315	8.4	141
212	Insight into highly efficient co-removal of p-nitrophenol and lead by nitrogen-functionalized magnetic ordered mesoporous carbon: Performance and modelling. <i>Journal of Hazardous Materials</i> , 2017 , 333, 80-87	12.8	139
211	Diagnosis of soil contamination using microbiological indices: A review on heavy metal pollution. <i>Journal of Environmental Management</i> , 2019 , 242, 121-130	7.9	136
210	A sustainable biochar catalyst synergized with copper heteroatoms and CO ₂ for singlet oxygenation and electron transfer routes. <i>Green Chemistry</i> , 2019 , 21, 4800-4814	10	133
209	Antimony contamination, consequences and removal techniques: A review. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 156, 125-134	7	132
208	Treatment of arsenic in acid wastewater and river sediment by Fe@FeO nanobunches: The effect of environmental conditions and reaction mechanism. <i>Water Research</i> , 2017 , 117, 175-186	12.5	130
207	Insight into the dual-channel charge-carrier transfer path for nonmetal plasmonic tungsten oxide based composites with boosted photocatalytic activity under full-spectrum light. <i>Applied Catalysis B: Environmental</i> , 2018 , 235, 225-237	21.8	127
206	Facile fabrication of a direct Z-scheme Ag ₂ CrO ₄ /g-C ₃ N ₄ photocatalyst with enhanced visible light photocatalytic activity. <i>Journal of Molecular Catalysis A</i> , 2016 , 421, 209-221		127
205	Simultaneous removal of lead and phenol contamination from water by nitrogen-functionalized magnetic ordered mesoporous carbon. <i>Chemical Engineering Journal</i> , 2015 , 259, 854-864	14.7	123
204	Nanoporous Au-based chronocoulometric aptasensor for amplified detection of Pb(2+) using DNAzyme modified with Au nanoparticles. <i>Biosensors and Bioelectronics</i> , 2016 , 81, 61-67	11.8	119
203	pH-dependent degradation of p-nitrophenol by sulfidated nanoscale zerovalent iron under aerobic or anoxic conditions. <i>Journal of Hazardous Materials</i> , 2016 , 320, 581-590	12.8	117
202	Facile fabrication of mediator-free Z-scheme photocatalyst of phosphorous-doped ultrathin graphitic carbon nitride nanosheets and bismuth vanadate composites with enhanced tetracycline degradation under visible light. <i>Journal of Colloid and Interface Science</i> , 2018 , 509, 219-234	9.3	116
201	Construction of Plasmonic Ag and Nitrogen-Doped Graphene Quantum Dots Codecorated Ultrathin Graphitic Carbon Nitride Nanosheet Composites with Enhanced Photocatalytic Activity: Full-Spectrum Response Ability and Mechanism Insight. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42816-42828	9.5	116

200	Mesoporous carbon nitride based biosensor for highly sensitive and selective analysis of phenol and catechol in compost bioremediation. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 519-25	11.8	114
199	Catalytic reduction-adsorption for removal of p-nitrophenol and its conversion p-aminophenol from water by gold nanoparticles supported on oxidized mesoporous carbon. <i>Journal of Colloid and Interface Science</i> , 2016 , 469, 78-85	9.3	112
198	Synthesis and application of iron and zinc doped biochar for removal of p-nitrophenol in wastewater and assessment of the influence of co-existed Pb(II). <i>Applied Surface Science</i> , 2017 , 392, 391-401	6.7	112
197	Bioremediation of water containing pesticides by microalgae: Mechanisms, methods, and prospects for future research. <i>Science of the Total Environment</i> , 2020 , 707, 136080	10.2	112
196	Cu and Co nanoparticles co-doped MIL-101 as a novel adsorbent for efficient removal of tetracycline from aqueous solutions. <i>Science of the Total Environment</i> , 2019 , 650, 408-418	10.2	112
195	Synergistic adsorption and reduction of hexavalent chromium using highly uniform polyaniline/magnetic mesoporous silica composite. <i>Chemical Engineering Journal</i> , 2014 , 254, 302-312	14.7	110
194	Responses of bacterial community and functional marker genes of nitrogen cycling to biochar, compost and combined amendments in soil. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 8583-91	5.7	110
193	Mn-doped zirconium metal-organic framework as an effective adsorbent for removal of tetracycline and Cr(VI) from aqueous solution. <i>Microporous and Mesoporous Materials</i> , 2019 , 277, 277-285	5.3	110
192	Physicochemical features, metal availability and enzyme activity in heavy metal-polluted soil remediated by biochar and compost. <i>Science of the Total Environment</i> , 2020 , 701, 134751	10.2	109
191	An overview on engineering the surface area and porosity of biochar. <i>Science of the Total Environment</i> , 2021 , 763, 144204	10.2	106
190	Cd(II) removal from aqueous solution by adsorption on α -ketoglutaric acid-modified magnetic chitosan. <i>Applied Surface Science</i> , 2014 , 292, 710-716	6.7	104
189	Sustainable stabilization/solidification of municipal solid waste incinerator fly ash by incorporation of green materials. <i>Journal of Cleaner Production</i> , 2019 , 222, 335-343	10.3	102
188	Applications and factors influencing of the persulfate-based advanced oxidation processes for the remediation of groundwater and soil contaminated with organic compounds. <i>Journal of Hazardous Materials</i> , 2018 , 359, 396-407	12.8	101
187	Remediation of Cu, Pb, Zn and Cd-contaminated agricultural soil using a combined red mud and compost amendment. <i>International Biodeterioration and Biodegradation</i> , 2017 , 118, 73-81	4.8	99
186	Fabrication of sustainable manganese ferrite modified biochar from vinasse for enhanced adsorption of fluoroquinolone antibiotics: Effects and mechanisms. <i>Science of the Total Environment</i> , 2020 , 709, 136079	10.2	98
185	Highly effective adsorption of cationic and anionic dyes on magnetic Fe/Ni nanoparticles doped bimodal mesoporous carbon. <i>Journal of Colloid and Interface Science</i> , 2015 , 448, 451-9	9.3	97
184	Cobalt nanoparticles-embedded magnetic ordered mesoporous carbon for highly effective adsorption of rhodamine B. <i>Applied Surface Science</i> , 2014 , 314, 746-753	6.7	97
183	Competitive removal of Cd(II) and Pb(II) by biochars produced from water hyacinths: performance and mechanism. <i>RSC Advances</i> , 2016 , 6, 5223-5232	3.7	94

182	Aptamer-based biosensors for detection of lead(II) ion: a review. <i>Analytical Methods</i> , 2017 , 9, 1976-1990	3.2	91
181	Efficient charge transfer in aluminum-cobalt layered double hydroxide derived from Co-ZIF for enhanced catalytic degradation of tetracycline through peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2020 , 382, 122802	14.7	91
180	Practical and regenerable electrochemical aptasensor based on nanoporous gold and thymine-Hg-thymine base pairs for Hg detection. <i>Biosensors and Bioelectronics</i> , 2017 , 90, 542-548	11.8	90
179	Agricultural biomass/waste as adsorbents for toxic metal decontamination of aqueous solutions. <i>Journal of Molecular Liquids</i> , 2019 , 295, 111684	6	87
178	Degradation of sulfamethazine by biochar-supported bimetallic oxide/persulfate system in natural water: Performance and reaction mechanism. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122816	12.8	86
177	Single and simultaneous adsorption of pefloxacin and Cu(II) ions from aqueous solutions by oxidized multiwalled carbon nanotube. <i>Science of the Total Environment</i> , 2019 , 646, 29-36	10.2	84
176	Construction of MIL-53(Fe) metal-organic framework modified by silver phosphate nanoparticles as a novel Z-scheme photocatalyst: Visible-light photocatalytic performance and mechanism investigation. <i>Applied Surface Science</i> , 2019 , 465, 103-115	6.7	84
175	Biochar-based functional materials in the purification of agricultural wastewater: Fabrication, application and future research needs. <i>Chemosphere</i> , 2018 , 197, 165-180	8.4	83
174	Self-powered photoelectrochemical aptasensor based on phosphorus doped porous ultrathin g-CN nanosheets enhanced by surface plasmon resonance effect. <i>Biosensors and Bioelectronics</i> , 2018 , 121, 19-26	11.8	83
173	Analyses of tetracycline adsorption on alkali-acid modified magnetic biochar: Site energy distribution consideration. <i>Science of the Total Environment</i> , 2019 , 650, 2260-2266	10.2	83
172	A review of recent applications of porous metals and metal oxide in energy storage, sensing and catalysis. <i>Journal of Materials Science</i> , 2019 , 54, 949-973	4.3	82
171	Rapid reductive degradation of aqueous p-nitrophenol using nanoscale zero-valent iron particles immobilized on mesoporous silica with enhanced antioxidation effect. <i>Applied Surface Science</i> , 2015 , 333, 220-228	6.7	81
170	Metal-based quantum dots: synthesis, surface modification, transport and fate in aquatic environments and toxicity to microorganisms. <i>RSC Advances</i> , 2016 , 6, 78595-78610	3.7	80
169	Rapid adsorption of 2,4-dichlorophenoxyacetic acid by iron oxide nanoparticles-doped carboxylic ordered mesoporous carbon. <i>Journal of Colloid and Interface Science</i> , 2015 , 445, 1-8	9.3	79
168	Appraising growth, oxidative stress and copper phytoextraction potential of flax (<i>Linum usitatissimum</i> L.) grown in soil differentially spiked with copper. <i>Journal of Environmental Management</i> , 2020 , 257, 109994	7.9	79
167	Effective removal of Cr(VI) through adsorption and reduction by magnetic mesoporous carbon incorporated with polyaniline. <i>RSC Advances</i> , 2014 , 4, 58362-58371	3.7	78
166	A sustainable ferromanganese biochar adsorbent for effective levofloxacin removal from aqueous medium. <i>Chemosphere</i> , 2019 , 237, 124464	8.4	77
165	A tyrosinase biosensor based on ordered mesoporous carbon-Au/L-lysine/Au nanoparticles for simultaneous determination of hydroquinone and catechol. <i>Analyst</i> , 2013 , 138, 3552-60	5	77

164	Visible-light photocatalytic degradation of multiple antibiotics by AgI nanoparticle-sensitized Bi ₅ O ₇ I microspheres: Enhanced interfacial charge transfer based on Z-scheme heterojunctions. <i>Journal of Catalysis</i> , 2017 , 352, 160-170	7.3	76
163	Optimizing the synthesis of Fe/Al (Hydr)oxides-Biochars to maximize phosphate removal via response surface model. <i>Journal of Cleaner Production</i> , 2019 , 237, 117770	10.3	74
162	Core-shell nanomaterials: Applications in energy storage and conversion. <i>Advances in Colloid and Interface Science</i> , 2019 , 267, 26-46	14.3	73
161	Carbon-based core-shell nanostructured materials for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7310-7337	13	73
160	Advances in enhanced volatile fatty acid production from anaerobic fermentation of waste activated sludge. <i>Science of the Total Environment</i> , 2019 , 694, 133741	10.2	73
159	Experimental and theoretical aspects of biochar-supported nanoscale zero-valent iron activating HO for ciprofloxacin removal from aqueous solution. <i>Journal of Hazardous Materials</i> , 2019 , 380, 120848	12.8	73
158	Arbuscular mycorrhizal fungi-induced mitigation of heavy metal phytotoxicity in metal contaminated soils: A critical review. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123919	12.8	72
157	Enhanced visible light photocatalytic performance of polyaniline modified mesoporous single crystal TiO ₂ microsphere. <i>Applied Surface Science</i> , 2016 , 387, 882-893	6.7	71
156	Current progress in remediation of chlorinated volatile organic compounds: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 62, 106-119	6.3	65
155	Remediation of persistent organic pollutants in aqueous systems by electrochemical activation of persulfates: A review. <i>Journal of Environmental Management</i> , 2020 , 260, 110125	7.9	62
154	CdS/Cu ₂ S co-sensitized TiO ₂ branched nanorod arrays of enhanced photoelectrochemical properties by forming nanoscale heterostructure. <i>Journal of Alloys and Compounds</i> , 2016 , 662, 516-527	5.7	62
153	Phosphorus-doped ordered mesoporous carbons embedded with Pd/Fe bimetal nanoparticles for the dechlorination of 2,4-dichlorophenol. <i>Catalysis Science and Technology</i> , 2016 , 6, 1930-1939	5.5	60
152	Mechanistic insights into red mud, blast furnace slag, or metakaolin-assisted stabilization/solidification of arsenic-contaminated sediment. <i>Environment International</i> , 2019 , 133, 105247	12.9	60
151	Carbon felt cathodes for electro-Fenton process to remove tetracycline via synergistic adsorption and degradation. <i>Science of the Total Environment</i> , 2019 , 670, 921-931	10.2	58
150	Synthesis of Pd/Au bimetallic nanoparticle-loaded ultrathin graphitic carbon nitride nanosheets for highly efficient catalytic reduction of p-nitrophenol. <i>Journal of Colloid and Interface Science</i> , 2017 , 490, 834-843	9.3	57
149	Label free detection of lead using impedimetric sensor based on ordered mesoporous carbon-gold nanoparticles and DNAzyme catalytic beacons. <i>Talanta</i> , 2016 , 146, 641-7	6.2	55
148	Activation of peroxymonosulfate (PMS) by spinel ferrite and their composites in degradation of organic pollutants: A Review. <i>Chemical Engineering Journal</i> , 2021 , 414, 128800	14.7	53
147	Population characteristics and influential factors of nitrogen cycling functional genes in heavy metal contaminated soil remediated by biochar and compost. <i>Science of the Total Environment</i> , 2019 , 651, 2166-2174	10.2	52

146	Chiral pharmaceuticals: Environment sources, potential human health impacts, remediation technologies and future perspective. <i>Environment International</i> , 2018 , 121, 523-537	12.9	52
145	Peroxymonosulfate activation of magnetic Co nanoparticles relative to an N-doped porous carbon under confinement: Boosting stability and performance. <i>Separation and Purification Technology</i> , 2020 , 250, 117237	8.3	51
144	Recent advances in the environmental applications of biosurfactant saponins: A review. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 6030-6038	6.8	49
143	Insights into the oxidation of organic contaminants by iron nanoparticles encapsulated within boron and nitrogen co-doped carbon nanoshell: Catalyzed Fenton-like reaction at natural pH. <i>Environment International</i> , 2019 , 128, 77-88	12.9	48
142	New insights into the activity of a biochar supported nanoscale zerovalent iron composite and nanoscale zero valent iron under anaerobic or aerobic conditions. <i>RSC Advances</i> , 2017 , 7, 8755-8761	3.7	46
141	Hydrogen sulfide enhances rice tolerance to nickel through the prevention of chloroplast damage and the improvement of nitrogen metabolism under excessive nickel. <i>Plant Physiology and Biochemistry</i> , 2019 , 138, 100-111	5.4	44
140	Current progress in biosensors for organophosphorus pesticides based on enzyme functionalized nanostructures: a review. <i>Analytical Methods</i> , 2018 , 10, 5468-5479	3.2	44
139	Electron density modulation of Fe _{1-x} Co _x P nanosheet arrays by iron incorporation for highly efficient water splitting. <i>Nano Energy</i> , 2020 , 67, 104174	17.1	43
138	Cu-Doped Fe@Fe ₂ O ₃ core-shell nanoparticle shifted oxygen reduction pathway for high-efficiency arsenic removal in smelting wastewater. <i>Environmental Science: Nano</i> , 2018 , 5, 1595-1607	7.1	43
137	Combined removal of di(2-ethylhexyl)phthalate (DEHP) and Pb(II) by using a cutinase loaded nanoporous gold-polyethyleneimine adsorbent. <i>RSC Advances</i> , 2014 , 4, 55511-55518	3.7	42
136	Simultaneous removal of atrazine and copper using polyacrylic acid-functionalized magnetic ordered mesoporous carbon from water: adsorption mechanism. <i>Scientific Reports</i> , 2017 , 7, 43831	4.9	41
135	Effects of exogenous calcium and spermidine on cadmium stress moderation and metal accumulation in <i>Boehmeria nivea</i> (L.) Gaudich. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 8699-708	5.1	41
134	Current progress in the adsorption, transport and biodegradation of antibiotics in soil. <i>Journal of Environmental Management</i> , 2019 , 251, 109598	7.9	41
133	A reusable electrochemical biosensor for highly sensitive detection of mercury ions with an anionic intercalator supported on ordered mesoporous carbon/self-doped polyaniline nanofibers platform. <i>Biochemical Engineering Journal</i> , 2017 , 117, 7-14	4.2	40
132	Development of ozonation and reactive electrochemical membrane coupled process: Enhanced tetracycline mineralization and toxicity reduction. <i>Chemical Engineering Journal</i> , 2020 , 383, 123149	14.7	40
131	Aromatic organoarsenic compounds (AOCs) occurrence and remediation methods. <i>Chemosphere</i> , 2018 , 207, 665-675	8.4	39
130	Application of abscisic acid and 6-benzylaminopurine modulated morpho-physiological and antioxidative defense responses of tomato (<i>Solanum lycopersicum</i> L.) by minimizing cobalt uptake. <i>Chemosphere</i> , 2021 , 263, 128169	8.4	38
129	Adsorption of agricultural wastewater contaminated with antibiotics, pesticides and toxic metals by functionalized magnetic nanoparticles. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 6468-6478	6.8	38

128	Applications of nanoscale zero-valent iron and its composites to the removal of antibiotics: a review. <i>Journal of Materials Science</i> , 2019 , 54, 12171-12188	4.3	37
127	Current progress in degradation and removal methods of polybrominated diphenyl ethers from water and soil: A review. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123674	12.8	37
126	Effects of magnesium ferrite biochar on the cadmium passivation in acidic soil and bioavailability for pakcoi (<i>Brassica chinensis</i> L.). <i>Journal of Environmental Management</i> , 2019 , 251, 109610	7.9	35
125	Amplified and selective detection of manganese peroxidase genes based on enzyme-scaffolded-gold nanoclusters and mesoporous carbon nitride. <i>Biosensors and Bioelectronics</i> , 2015 , 65, 382-9	11.8	34
124	Ultrathin low dimensional heterostructure composites with superior photocatalytic activity: Insight into the multichannel charge transfer mechanism. <i>Chemical Engineering Journal</i> , 2020 , 393, 124718	14.7	34
123	Determination of Cd and Pb Based on Mesoporous Carbon Nitride/Self-Doped Polyaniline Nanofibers and Square Wave Anodic Stripping Voltammetry. <i>Nanomaterials</i> , 2016 , 6,	5.4	34
122	Attapulgite-supported nano-Fe ₀ /peroxymonosulfate for quinclorac removal: Performance, mechanism and degradation pathway. <i>Chemical Engineering Journal</i> , 2019 , 360, 104-114	14.7	34
121	Microplastics and environmental pollutants: Key interaction and toxicology in aquatic and soil environments. <i>Journal of Hazardous Materials</i> , 2022 , 422, 126843	12.8	34
120	Remediation of cadmium-contaminated soils using <i>Brassica napus</i> : Effect of nitrogen fertilizers. <i>Journal of Environmental Management</i> , 2020 , 255, 109885	7.9	31
119	Simultaneous degradation of p-arsanilic acid and inorganic arsenic removal using M-rGO/PS Fenton-like system under neutral conditions. <i>Journal of Hazardous Materials</i> , 2020 , 399, 123032	12.8	30
118	Effects of red mud based passivator on the transformation of Cd fraction in acidic Cd-polluted paddy soil and Cd absorption in rice. <i>Science of the Total Environment</i> , 2018 , 640-641, 736-745	10.2	30
117	Key environmental factors to variation of ammonia-oxidizing archaea community and potential ammonia oxidation rate during agricultural waste composting. <i>Bioresource Technology</i> , 2018 , 270, 278-285	11	30
116	Optimization of flocculation conditions for soluble cadmium removal using the composite flocculant of green anion polyacrylamide and PAC by response surface methodology. <i>Science of the Total Environment</i> , 2018 , 645, 267-276	10.2	28
115	Sensitive impedimetric biosensor based on duplex-like DNA scaffolds and ordered mesoporous carbon nitride for silver(I) ion detection. <i>Analyst, The</i> , 2014 , 139, 6529-35	5	28
114	Bacterial-induced mineralization (BIM) for soil solidification and heavy metal stabilization: A critical review. <i>Science of the Total Environment</i> , 2020 , 746, 140967	10.2	28
113	Er ³⁺ induced formation of oxygen vacancies and Ti defects in anatase TiO ₂ for efficient photocatalytic organic pollutant degradation. <i>Science of the Total Environment</i> , 2020 , 747, 141533	10.2	27
112	Characteristics of denitrification genes and relevant enzyme activities in heavy-metal polluted soils remediated by biochar and compost. <i>Science of the Total Environment</i> , 2020 , 739, 139987	10.2	26
111	Boron supply alleviates cadmium toxicity in rice (<i>Oryza sativa</i> L.) by enhancing cadmium adsorption on cell wall and triggering antioxidant defense system in roots. <i>Chemosphere</i> , 2021 , 266, 128938	8.4	26

110	Removal of bisphenol A by iron nanoparticle-doped magnetic ordered mesoporous carbon. <i>RSC Advances</i> , 2016 , 6, 25724-25732	3.7	25
109	Ordered Mesoporous Carbon and Thiolated Polyaniline Modified Electrode for Simultaneous Determination of Cadmium(II) and Lead(II) by Anodic Stripping Voltammetry. <i>Electroanalysis</i> , 2014 , 26, 2283-2291	3	25
108	Polyamide 6 microplastics facilitate methane production during anaerobic digestion of waste activated sludge. <i>Chemical Engineering Journal</i> , 2021 , 408, 127251	14.7	25
107	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. <i>Journal of Cleaner Production</i> , 2021 , 289, 125142	10.3	25
106	Influence of roxithromycin as antibiotic residue on volatile fatty acids recovery in anaerobic fermentation of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2020 , 394, 122570	12.8	24
105	Catalytic reduction of hexavalent chromium by a novel nitrogen-functionalized magnetic ordered mesoporous carbon doped with Pd nanoparticles. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 22027-22036	5.1	24
104	Structure-based synergistic mechanism for the degradation of typical antibiotics in electro-Fenton process using PdFe ₃ O ₄ model catalyst: Theoretical and experimental study. <i>Journal of Catalysis</i> , 2018 , 365, 184-194	7.3	24
103	Formation and interdependence of disinfection byproducts during chlorination of natural organic matter in a conventional drinking water treatment plant. <i>Chemosphere</i> , 2020 , 242, 125227	8.4	24
102	FeFe layered double hydroxide modified carbon felt cathode for removal of ciprofloxacin in electro-Fenton process. <i>Environmental Research</i> , 2021 , 197, 111144	7.9	24
101	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass containing nitrogen. <i>Science of the Total Environment</i> , 2021 , 756, 143679	10.2	23
100	Sustainable biochar/MgFeO adsorbent for levofloxacin removal: Adsorption performances and mechanisms. <i>Bioresource Technology</i> , 2021 , 340, 125698	11	20
99	Current progress in treatment techniques of triclosan from wastewater: A review. <i>Science of the Total Environment</i> , 2019 , 696, 133990	10.2	19
98	A novel biosensor for silver(I) ion detection based on nanoporous gold and duplex-like DNA scaffolds with anionic intercalator. <i>RSC Advances</i> , 2015 , 5, 69738-69744	3.7	19
97	Simultaneous removal of iron and manganese from acid mine drainage by acclimated bacteria. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122631	12.8	19
96	Effect of Fe, Mn catalysts on the performance of electro-Fenton degradation of antibiotic ciprofloxacin, and expanding the utilizing of acid mine drainage. <i>Science of the Total Environment</i> , 2020 , 720, 137560	10.2	19
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