

Baoliang Chen

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166
papers

12,452
citations

55
h-index

110
g-index

171
ext. papers

14,665
ext. citations

9.6
avg, IF

7.35
L-index

#	Paper	IF	Citations
166	Transitional adsorption and partition of nonpolar and polar aromatic contaminants by biochars of pine needles with different pyrolytic temperatures. <i>Environmental Science & Technology</i> , 2008 , 42, 5137-43	10.3	1163
165	A novel magnetic biochar efficiently sorbs organic pollutants and phosphate. <i>Bioresource Technology</i> , 2011 , 102, 716-23	11	656
164	Adsorption of polycyclic aromatic hydrocarbons by graphene and graphene oxide nanosheets. <i>Environmental Science & Technology</i> , 2014 , 48, 4817-25	10.3	539
163	Sorption of naphthalene and 1-naphthol by biochars of orange peels with different pyrolytic temperatures. <i>Chemosphere</i> , 2009 , 76, 127-33	8.4	421
162	Environmental applications of three-dimensional graphene-based macrostructures: adsorption, transformation, and detection. <i>Environmental Science & Technology</i> , 2015 , 49, 67-84	10.3	416
161	Effects and mechanisms of biochar-microbe interactions in soil improvement and pollution remediation: A review. <i>Environmental Pollution</i> , 2017 , 227, 98-115	9.3	381
160	Insight into Multiple and Multilevel Structures of Biochars and Their Potential Environmental Applications: A Critical Review. <i>Environmental Science & Technology</i> , 2018 , 52, 5027-5047	10.3	349
159	Investigation of thermodynamic parameters in the pyrolysis conversion of biomass and manure to biochars using thermogravimetric analysis. <i>Bioresource Technology</i> , 2013 , 146, 485-493	11	306
158	Transformation, morphology, and dissolution of silicon and carbon in rice straw-derived biochars under different pyrolytic temperatures. <i>Environmental Science & Technology</i> , 2014 , 48, 3411-9	10.3	276
157	Macroscopic and spectroscopic investigations of the adsorption of nitroaromatic compounds on graphene oxide, reduced graphene oxide, and graphene nanosheets. <i>Environmental Science & Technology</i> , 2015 , 49, 6181-9	10.3	255
156	Aromatic and hydrophobic surfaces of wood-derived biochar enhance perchlorate adsorption via hydrogen bonding to oxygen-containing organic groups. <i>Environmental Science & Technology</i> , 2014 , 48, 279-88	10.3	248
155	Adsorption and coadsorption of organic pollutants and a heavy metal by graphene oxide and reduced graphene materials. <i>Chemical Engineering Journal</i> , 2015 , 281, 379-388	14.7	241
154	Fast and slow rates of naphthalene sorption to biochars produced at different temperatures. <i>Environmental Science & Technology</i> , 2012 , 46, 11104-11	10.3	224
153	Distributions of polycyclic aromatic hydrocarbons in surface waters, sediments and soils of Hangzhou City, China. <i>Water Research</i> , 2004 , 38, 3558-68	12.5	216
152	Sulfonated graphene nanosheets as a superb adsorbent for various environmental pollutants in water. <i>Environmental Science & Technology</i> , 2015 , 49, 7364-72	10.3	205
151	Quantification of chemical states, dissociation constants and contents of oxygen-containing groups on the surface of biochars produced at different temperatures. <i>Environmental Science & Technology</i> , 2015 , 49, 309-17	10.3	205
150	Synthesis, decoration and properties of three-dimensional graphene-based macrostructures: A review. <i>Chemical Engineering Journal</i> , 2015 , 264, 753-771	14.7	199

149	Sorption of polar and nonpolar aromatic organic contaminants by plant cuticular materials: role of polarity and accessibility. <i>Environmental Science & Technology</i> , 2005 , 39, 6138-46	10.3	195
148	Aggregation, Adsorption, and Morphological Transformation of Graphene Oxide in Aqueous Solutions Containing Different Metal Cations. <i>Environmental Science & Technology</i> , 2016 , 50, 11066-11075	10.3	194
147	Interactions of aluminum with biochars and oxidized biochars: implications for the biochar aging process. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 373-80	5.7	191
146	Enhanced sorption of polycyclic aromatic hydrocarbons by soil amended with biochar. <i>Journal of Soils and Sediments</i> , 2011 , 11, 62-71	3.4	191
145	Sorption of Phenol, p-Nitrophenol, and Aniline to Dual-Cation Organobentonites from Water. <i>Environmental Science & Technology</i> , 2000 , 34, 468-475	10.3	191
144	Sorption of Poly- and Perfluoroalkyl Substances (PFASs) Relevant to Aqueous Film-Forming Foam (AFFF)-Impacted Groundwater by Biochars and Activated Carbon. <i>Environmental Science & Technology</i> , 2017 , 51, 6342-6351	10.3	165
143	Self-assembly of graphene oxide aerogels by layered double hydroxides cross-linking and their application in water purification. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8941-8951	13	141
142	Enhanced bioremediation of PAH-contaminated soil by immobilized bacteria with plant residue and biochar as carriers. <i>Journal of Soils and Sediments</i> , 2012 , 12, 1350-1359	3.4	135
141	Wrinkles and Folds of Activated Graphene Nanosheets as Fast and Efficient Adsorptive Sites for Hydrophobic Organic Contaminants. <i>Environmental Science & Technology</i> , 2016 , 50, 3798-808	10.3	129
140	Sorption Behavior of p-Nitrophenol on the Interface between Anion-Cation Organobentonite and Water. <i>Environmental Science & Technology</i> , 2000 , 34, 2997-3002	10.3	128
139	Insights on the molecular mechanism for the recalcitrance of biochars: interactive effects of carbon and silicon components. <i>Environmental Science & Technology</i> , 2014 , 48, 9103-12	10.3	125
138	Interactions of organic contaminants with mineral-adsorbed surfactants. <i>Environmental Science & Technology</i> , 2003 , 37, 4001-6	10.3	124
137	Structural characteristics of biochar-graphene nanosheet composites and their adsorption performance for phthalic acid esters. <i>Chemical Engineering Journal</i> , 2017 , 319, 9-20	14.7	123
136	Configurations of the bentonite-sorbed myristylpyridinium cation and their influences on the uptake of organic compounds. <i>Environmental Science & Technology</i> , 2005 , 39, 6093-100	10.3	119
135	Bisolute sorption and thermodynamic behavior of organic pollutants to biomass-derived biochars at two pyrolytic temperatures. <i>Environmental Science & Technology</i> , 2012 , 46, 12476-83	10.3	112
134	Effective alleviation of aluminum phytotoxicity by manure-derived biochar. <i>Environmental Science & Technology</i> , 2013 , 47, 2737-45	10.3	110
133	A Direct Observation of the Fine Aromatic Clusters and Molecular Structures of Biochars. <i>Environmental Science & Technology</i> , 2017 , 51, 5473-5482	10.3	109
132	Biosorption and biodegradation of polycyclic aromatic hydrocarbons in aqueous solutions by a consortium of white-rot fungi. <i>Journal of Hazardous Materials</i> , 2010 , 179, 845-51	12.8	108

131	Solubilization and biodegradation of phenanthrene in mixed anionic-nonionic surfactant solutions. <i>Chemosphere</i> , 2005 , 58, 33-40	8.4	107
130	H/C atomic ratio as a smart linkage between pyrolytic temperatures, aromatic clusters and sorption properties of biochars derived from diverse precursory materials. <i>Scientific Reports</i> , 2016 , 6, 22644	4.9	106
129	Porous PVdF/GO Nanofibrous Membranes for Selective Separation and Recycling of Charged Organic Dyes from Water. <i>Environmental Science & Technology</i> , 2018 , 52, 4265-4274	10.3	95
128	Removal of polycyclic aromatic hydrocarbons from aqueous solution using plant residue materials as a biosorbent. <i>Journal of Hazardous Materials</i> , 2011 , 188, 436-42	12.8	91
127	Stable graphene oxide/poly(ethyleneimine) 3D aerogel with tunable surface charge for high performance selective removal of ionic dyes from water. <i>Chemical Engineering Journal</i> , 2018 , 334, 1119-1127	14.7	82
126	Enhanced sorption of polycyclic aromatic hydrocarbons from aqueous solution by modified pine bark. <i>Bioresource Technology</i> , 2010 , 101, 7307-7313	11	81
125	In situ photochemical fabrication of CdS/g-C ₃ N ₄ nanocomposites with high performance for hydrogen evolution under visible light. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117848	21.8	74
124	Application of graphene-based materials in water purification: from the nanoscale to specific devices. <i>Environmental Science: Nano</i> , 2018 , 5, 1264-1297	7.1	73
123	Synergistic effects of 2D graphene oxide nanosheets and 1D carbon nanotubes in the constructed 3D carbon aerogel for high performance pollutant removal. <i>Chemical Engineering Journal</i> , 2017 , 314, 336-346	14.7	73
122	Dual role of biochars as adsorbents for aluminum: the effects of oxygen-containing organic components and the scattering of silicate particles. <i>Environmental Science & Technology</i> , 2013 , 47, 8759-68	10.3	72
121	Aggregation Kinetics and Self-Assembly Mechanisms of Graphene Quantum Dots in Aqueous Solutions: Cooperative Effects of pH and Electrolytes. <i>Environmental Science & Technology</i> , 2017 , 51, 1364-1376	10.3	71
120	Organic carbon and inorganic silicon speciation in rice-bran-derived biochars affect its capacity to adsorb cadmium in solution. <i>Journal of Soils and Sediments</i> , 2015 , 15, 60-70	3.4	70
119	Competitive adsorption of cadmium and aluminum onto fresh and oxidized biochars during aging processes. <i>Journal of Soils and Sediments</i> , 2015 , 15, 1130-1138	3.4	69
118	Adsorption of perchlorate onto raw and oxidized carbon nanotubes in aqueous solution. <i>Carbon</i> , 2012 , 50, 2209-2219	10.4	68
117	Self-Assembled Nano-FeO(OH)/Reduced Graphene Oxide Aerogel as a Reusable Catalyst for Photo-Fenton Degradation of Phenolic Organics. <i>Environmental Science & Technology</i> , 2018 , 52, 7043-7053	10.3	66
116	Removal of polycyclic aromatic hydrocarbons from aqueous solution by raw and modified plant residue materials as biosorbents. <i>Journal of Environmental Sciences</i> , 2014 , 26, 737-48	6.4	64
115	Pollution survey of polycyclic aromatic hydrocarbons in surface water of Hangzhou, China. <i>Chemosphere</i> , 2004 , 56, 1085-95	8.4	64
114	Nanocomposite Membrane with Polyethylenimine-Grafted Graphene Oxide as a Novel Additive to Enhance Pollutant Filtration Performance. <i>Environmental Science & Technology</i> , 2018 , 52, 5920-5930	10.3	63

113	Graphene-coated materials using silica particles as a framework for highly efficient removal of aromatic pollutants in water. <i>Scientific Reports</i> , 2015 , 5, 11641	4.9	61
112	Application of biochar-based materials in environmental remediation: from multi-level structures to specific devices. <i>Biochar</i> , 2020 , 2, 1-31	10	60
111	Size effects of graphene oxide nanosheets on the construction of three-dimensional graphene-based macrostructures as adsorbents. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12106-12118	13	55
110	Durable Superhydrophobic/Superoleophilic Graphene-Based Foam for High-Efficiency Oil Spill Cleanups and Recovery. <i>Environmental Science & Technology</i> , 2019 , 53, 1509-1517	10.3	53
109	Adsorption and desorption of phthalic acid esters on graphene oxide and reduced graphene oxide as affected by humic acid. <i>Environmental Pollution</i> , 2018 , 232, 505-513	9.3	52
108	Facile fabrication of stable monolayer and few-layer graphene nanosheets as superior sorbents for persistent aromatic pollutant management in water. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18219-18224	12.4	52
107	Sorption and conformational characteristics of reconstituted plant cuticular waxes on montmorillonite. <i>Environmental Science & Technology</i> , 2005 , 39, 8315-23	10.3	52
106	Covalently cross-linked graphene oxide aerogel with stable structure for high-efficiency water purification. <i>Chemical Engineering Journal</i> , 2018 , 354, 896-904	14.7	50
105	Organic pollutant clustered in the plant cuticular membranes: visualizing the distribution of phenanthrene in leaf cuticle using two-photon confocal scanning laser microscopy. <i>Environmental Science & Technology</i> , 2014 , 48, 4774-81	10.3	48
104	Role of the extractable lipids and polymeric lipids in sorption of organic contaminants onto plant cuticles. <i>Environmental Science & Technology</i> , 2008 , 42, 1517-23	10.3	48
103	Linking hydrophobicity of biochar to the water repellency and water holding capacity of biochar-amended soil. <i>Environmental Pollution</i> , 2019 , 253, 779-789	9.3	47
102	Perchlorate uptake and molecular mechanisms by magnesium/aluminum carbonate layered double hydroxides and the calcined layered double hydroxides. <i>Chemical Engineering Journal</i> , 2014 , 237, 38-46	14.7	47
101	Direct Observation, Molecular Structure, and Location of Oxidation Debris on Graphene Oxide Nanosheets. <i>Environmental Science & Technology</i> , 2016 , 50, 8568-77	10.3	44
100	pH-dependent sorption of sulfonamide antibiotics onto biochars: Sorption mechanisms and modeling. <i>Environmental Pollution</i> , 2019 , 248, 48-56	9.3	42
99	Sugar Cane-Converted Graphene-like Material for the Superhigh Adsorption of Organic Pollutants from Water via Coassembly Mechanisms. <i>Environmental Science & Technology</i> , 2017 , 51, 12644-12652	10.3	40
98	Understanding the mechanisms of soil water repellency from nanoscale to ecosystem scale: a review. <i>Journal of Soils and Sediments</i> , 2019 , 19, 171-185	3.4	40
97	Enhanced bisphenol A removal from stormwater in biochar-amended biofilters: Combined with batch sorption and fixed-bed column studies. <i>Environmental Pollution</i> , 2018 , 243, 1539-1549	9.3	40
96	Environmental Effects of Silicon within Biochar (Sichar) and Carbon-Silicon Coupling Mechanisms: A Critical Review. <i>Environmental Science & Technology</i> , 2019 , 53, 13570-13582	10.3	39

95	Microstructure of organo-bentonites in water and the effect of steric hindrance on the uptake of organic compounds. <i>Clays and Clay Minerals</i> , 2008 , 56, 144-154	2.1	39
94	Single-solute and bi-solute sorption of phenanthrene and pyrene onto pine needle cuticular fractions. <i>Environmental Pollution</i> , 2010 , 158, 2478-84	9.3	38
93	Resolution of Adsorption and Partition Components of Organic Compounds on Black Carbons. <i>Environmental Science & Technology</i> , 2015 , 49, 9116-23	10.3	37
92	Biosorption and biodegradation of phenanthrene and pyrene in sterilized and unsterilized soil slurry systems stimulated by <i>Phanerochaete chrysosporium</i> . <i>Journal of Hazardous Materials</i> , 2012 , 229-230, 159-69	12.8	37
91	Efficient removal and mechanisms of water soluble aromatic contaminants by a reduced-charge bentonite modified with benzyltrimethylammonium cation. <i>Chemosphere</i> , 2008 , 70, 1987-94	8.4	37
90	Membranes prepared from graphene-based nanomaterials for sustainable applications: a review. <i>Environmental Science: Nano</i> , 2017 , 4, 2267-2285	7.1	36
89	Metal composition of layered double hydroxides (LDHs) regulating ClO(-)4 adsorption to calcined LDHs via the memory effect and hydrogen bonding. <i>Journal of Environmental Sciences</i> , 2014 , 26, 493-501	6.4	34
88	Novel Alleviation Mechanisms of Aluminum Phytotoxicity via Released Biosilicon from Rice Straw-Derived Biochars. <i>Scientific Reports</i> , 2016 , 6, 29346	4.9	34
87	Biosorption and biodegradation of polycyclic aromatic hydrocarbons by <i>Phanerochaete chrysosporium</i> in aqueous solution. <i>Science Bulletin</i> , 2013 , 58, 613-621		32
86	Phenanthrene sorption by fruit cuticles and potato periderm with different compositional characteristics. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 637-44	5.7	32
85	Correlations of nonlinear sorption of organic solutes with soil/sediment physicochemical properties. <i>Chemosphere</i> , 2005 , 61, 116-28	8.4	32
84	A nonradical reaction-dominated phenol degradation with peroxydisulfate catalyzed by nitrogen-doped graphene. <i>Science of the Total Environment</i> , 2019 , 667, 287-296	10.2	31
83	Scalable graphene oxide membranes with tunable water channels and stability for ion rejection. <i>Environmental Science: Nano</i> , 2019 , 6, 904-915	7.1	30
82	Sorption characteristics and mechanisms of organic contaminant to carbonaceous biosorbents in aqueous solution. <i>Science in China Series B: Chemistry</i> , 2008 , 51, 464-472		29
81	Enhanced sorption of naphthalene and nitroaromatic compounds to bentonite by potassium and cetyltrimethylammonium cations. <i>Journal of Hazardous Materials</i> , 2008 , 158, 116-23	12.8	29
80	Interaction mechanisms of organic contaminants with burned straw ash charcoal. <i>Journal of Environmental Sciences</i> , 2010 , 22, 1586-94	6.4	28
79	Magnetic biochar supported γ -MnO ₂ nanorod for adsorption enhanced degradation of 4-chlorophenol via activation of peroxydisulfate. <i>Science of the Total Environment</i> , 2020 , 724, 138278	10.2	27
78	Role of suberin, suberan, and hemicellulose in phenanthrene sorption by root tissue fractions of switchgrass (<i>Panicum virgatum</i>) seedlings. <i>Environmental Science & Technology</i> , 2009 , 43, 4130-6	10.3	27

77	Low-pressure driven electrospun membrane with tuned surface charge for efficient removal of polystyrene nanoplastics from water. <i>Journal of Membrane Science</i> , 2020 , 614, 118470	9.6	27
76	Dependence of Plant Uptake and Diffusion of Polycyclic Aromatic Hydrocarbons on the Leaf Surface Morphology and Micro-structures of Cuticular Waxes. <i>Scientific Reports</i> , 2017 , 7, 46235	4.9	26
75	Effects of compositional heterogeneity and nanoporosity of raw and treated biomass-generated soot on adsorption and absorption of organic contaminants. <i>Environmental Pollution</i> , 2011 , 159, 550-6	9.3	24
74	Adsorptive characteristics of the siloxane surfaces of reduced-charge bentonites saturated with tetramethylammonium cation. <i>Environmental Science & Technology</i> , 2008 , 42, 7911-7	10.3	24
73	Effects of biochar nanoparticles on seed germination and seedling growth. <i>Environmental Pollution</i> , 2020 , 256, 113409	9.3	24
72	Biochar Impacts on Soil Silicon Dissolution Kinetics and their Interaction Mechanisms. <i>Scientific Reports</i> , 2018 , 8, 8040	4.9	24
71	Enhanced dissipation of polycyclic aromatic hydrocarbons in the presence of fresh plant residues and their extracts. <i>Environmental Pollution</i> , 2012 , 161, 199-205	9.3	23
70	Water clusters contributed to molecular interactions of ionizable organic pollutants with aromatized biochar via PAHB: Sorption experiments and DFT calculations. <i>Environmental Pollution</i> , 2018 , 240, 342-352	9.3	23
69	A New Insight of Graphene oxide-Fe(III) Complex Photochemical Behaviors under Visible Light Irradiation. <i>Scientific Reports</i> , 2017 , 7, 40711	4.9	22
68	Driving forces linking microbial community structure and functions to enhanced carbon stability in biochar-amended soil. <i>Environment International</i> , 2019 , 133, 105211	12.9	22
67	Effects of biochar amendment on the soil silicon cycle in a soil-rice ecosystem. <i>Environmental Pollution</i> , 2019 , 248, 823-833	9.3	21
66	Cobalt (II)-based open-framework systems constructed on g-C ₃ N ₄ for extraordinary enhancing photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119207	21.8	20
65	Reconsideration of heterostructures of biochars: Morphology, particle size, elemental composition, reactivity and toxicity. <i>Environmental Pollution</i> , 2019 , 254, 113017	9.3	19
64	Effect of background electrolytes on the adsorption of nitroaromatic compounds onto bentonite. <i>Journal of Environmental Sciences</i> , 2009 , 21, 1044-52	6.4	19
63	Simultaneously Tuning Band Structure and Oxygen Reduction Pathway toward High-Efficient Photocatalytic Hydrogen Peroxide Production Using Cyano-Rich Graphitic Carbon Nitride. <i>Advanced Functional Materials</i> , 2021 , 31, 2105731	15.6	19
62	Reduced bioavailability and plant uptake of polycyclic aromatic hydrocarbons from soil slurry amended with biochars pyrolyzed under various temperatures. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 16991-17001	5.1	16
61	Novel insights into effects of silicon-rich biochar (Sichar) amendment on cadmium uptake, translocation and accumulation in rice plants. <i>Environmental Pollution</i> , 2020 , 265, 114772	9.3	16
60	Biochar composite membrane for high performance pollutant management: Fabrication, structural characteristics and synergistic mechanisms. <i>Environmental Pollution</i> , 2018 , 233, 1013-1023	9.3	15

59	Stable Graphene-Based Membrane with pH-Responsive Gates for Advanced Molecular Separation. <i>Environmental Science & Technology</i> , 2019 , 53, 10398-10407	10.3	15
58	Surfactant effects on the affinity of plant cuticles with organic pollutants. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 3681-8	5.7	15
57	Novel photocatalytic performance of nanocage-like MIL-125-NH ₂ induced by adsorption of phenolic pollutants. <i>Environmental Science: Nano</i> , 2020 , 7, 1525-1538	7.1	14
56	Sorption Behavior of Polycyclic Aromatic Hydrocarbons in Soil/Water System Containing Nonionic Surfactant. <i>Environmental Engineering Science</i> , 2004 , 21, 263-272	2	14
55	Effects of ionizable organic compounds in different species on the sorption of p-nitroaniline to sediment. <i>Water Research</i> , 2005 , 39, 281-8	12.5	13
54	Effect of fulvic acid coating on biochar surface structure and sorption properties towards 4-chlorophenol. <i>Science of the Total Environment</i> , 2019 , 691, 595-604	10.2	12
53	Membrane hydrophilicity switching via molecular design and re-construction of the functional additive for enhanced fouling resistance. <i>Journal of Membrane Science</i> , 2019 , 588, 117222	9.6	12
52	Facile fabrication of freestanding all-carbon activated carbon membranes for high-performance and universal pollutant management. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20316-20326	13	11
51	Enhanced oxidation of benzo[a]pyrene by crude enzyme extracts produced during interspecific fungal interaction of <i>Trametes versicolor</i> and <i>Phanerochaete chrysosporium</i> . <i>Journal of Environmental Sciences</i> , 2012 , 24, 1639-46	6.4	11
50	Overall photosynthesis of HO by an inorganic semiconductor.. <i>Nature Communications</i> , 2022 , 13, 1034	17.4	11
49	Triplex blue-shifting hydrogen bonds of ClO ₄ (-)/H-C in the nanointerlayer of montmorillonite complexed with cetyltrimethylammonium cation from hydrophilic to hydrophobic properties. <i>Environmental Science & Technology</i> , 2013 , 47, 11013-22	10.3	10
48	Immobilizing 1-3 nm Ag nanoparticles in reduced graphene oxide aerogel as a high-effective catalyst for reduction of nitroaromatic compounds. <i>Environmental Pollution</i> , 2020 , 256, 113405	9.3	10
47	Facile synthesis of porous CoFe ₂ O ₄ /graphene aerogel for catalyzing efficient removal of organic pollutants. <i>Science of the Total Environment</i> , 2021 , 775, 143398	10.2	10
46	Organic Pollutant Penetration through Fruit Polyester Skin: A Modified Three-compartment Diffusion Model. <i>Scientific Reports</i> , 2016 , 6, 23554	4.9	10
45	Underwater superoleophobic PVAlO nanofibrous membranes for emulsified oily water purification. <i>Environmental Science: Nano</i> , 2019 , 6, 3723-3733	7.1	10
44	Inoculation of soil with an Isoproturon degrading microbial community reduced the pool of "real non-extractable" Isoproturon residues. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 149, 182-189	7	10
43	Facile fabrication of crumpled graphene oxide nanosheets and its Platinum nanohybrids for high efficient catalytic activity. <i>Environmental Pollution</i> , 2018 , 243, 1810-1817	9.3	10
42	In situ quantitative determination of the intermolecular attraction between amines and a graphene surface using atomic force microscopy. <i>Journal of Colloid and Interface Science</i> , 2021 , 581, 385-395	9.3	9

41	The effect of structural compositions on the biosorption of phenanthrene and pyrene by tea leaf residue fractions as model biosorbents. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 3318-30	5.1	8
40	Biochar-amendment-reduced cotransport of graphene oxide nanoparticles and dimethyl phthalate in saturated porous media. <i>Science of the Total Environment</i> , 2020 , 705, 135094	10.2	8
39	Effect of culturing temperatures on cadmium phytotoxicity alleviation by biochar. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 23843-23849	5.1	7
38	Bimetal organic framework/graphene oxide derived magnetic porous composite catalyst for peroxymonosulfate activation in fast organic pollutant degradation. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126427	12.8	7
37	Sorption of chlorophenols onto fruit cuticles and potato periderm. <i>Journal of Environmental Sciences</i> , 2012 , 24, 675-81	6.4	6
36	Uniformly Dispersed Metal Sulfide Nanodots on g-C ₃ N ₄ as Bifunctional Catalysts for High-Efficiency Photocatalytic H ₂ and H ₂ O ₂ Production under Visible-Light Irradiation. <i>Energy & Fuels</i> , 2021 , 35, 10746-10755	4.1	6
35	Facile fabrication of Shewanella@graphene core-shell material and its enhanced performance in nitrobenzene reduction. <i>Science of the Total Environment</i> , 2019 , 658, 324-332	10.2	6
34	Konjac glucomannan biopolymer as a multifunctional binder to build a solid permeable interface on Na ₃ V ₂ (PO ₄) ₃ /C cathodes for high-performance sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9864-9874	13	6
33	Combined (1)H NMR and LSER study for the compound-specific interactions between organic contaminants and organobentonites. <i>Journal of Colloid and Interface Science</i> , 2015 , 460, 119-27	9.3	4
32	Nanoscale Profiling of 2D Surface Hydrophobicity Recognition of Environmental Media via AFM Measurements In Situ. <i>Environmental Science & Technology</i> , 2020 , 54, 9315-9324	10.3	4
31	Dual-function ultrafiltration membrane constructed from pure activated carbon particles via facile nanostructure reconstruction for high-efficient water purification. <i>Carbon</i> , 2020 , 168, 254-263	10.4	4
30	Microfluidics as an Emerging Platform for Exploring Soil Environmental Processes: A Critical Review.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	4
29	Designing a Nanoscale Three-phase Electrochemical Pathway to Promote Pt-catalyzed Formaldehyde Oxidation. <i>Nano Letters</i> , 2020 , 20, 8719-8724	11.5	4
28	Selectively coupled small Pd nanoparticles on sp ² -hybridized domain of graphene-based aerogel with enhanced catalytic activity and stability. <i>Science of the Total Environment</i> , 2021 , 771, 145396	10.2	4
27	High Sample Throughput LED Reactor for Facile Characterization of the Quantum Yield Spectrum of Photochemically Produced Reactive Intermediates. <i>Environmental Science & Technology</i> , 2021 , 55, 16204-16214	10.3	4
26	Reduction and removal of Cr(VI) in water using biosynthesized palladium nanoparticles loaded Shewanella oneidensis MR-1. <i>Science of the Total Environment</i> , 2022 , 805, 150336	10.2	4
25	Ultrathin graphene oxide membrane with constructed tent-shaped structures for efficient and tunable molecular sieving. <i>Environmental Science: Nano</i> , 2020 , 7, 2373-2384	7.1	3
24	Significance of natural organic matter in nonlinear sorption of 2,4-dichlorophenol onto soils/sediments. <i>Water Resources Research</i> , 2004 , 40,	5.4	3

23	Synergistic oxytetracycline adsorption and peroxydisulfate-driven oxidation on nitrogen and sulfur co-doped porous carbon spheres. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127444	12.8	3
22	Applications of atomic force microscopy-based imaging and force spectroscopy in assessing environmental interfacial processes. <i>Critical Reviews in Environmental Science and Technology</i> , 1-32	11.1	3
21	Concurrent enhancement of structure stability and adsorption capacity of freeze-dried graphene oxide aerogels via the removal of oxidation debris nanoparticles on nanosheets. <i>Environmental Science: Nano</i> , 2021 , 8, 1000-1009	7.1	3
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