# Baoliang Chen

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 171 papers | 17,023 citations | 16451 64 h-index | 15266 126 g-index |
| 171 all docs | 171 docs citations | 171 times ranked | 14458 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Transitional Adsorption and Partition of Nonpolar and Polar Aromatic Contaminants by Biochars of Pine Needles with Different Pyrolytic Temperatures. Environmental Science & Technology, 2008, 42, 5137-5143. | 10.0 | 1,446 |
| 2 | A novel magnetic biochar efficiently sorbs organic pollutants and phosphate. Bioresource Technology, 2011, 102, 716-723. | 9.6 | 810 |
| 3 | Adsorption of Polycyclic Aromatic Hydrocarbons by Graphene and Graphene Oxide Nanosheets. Environmental Science & Technology, 2014, 48, 4817-4825. | 10.0 | 668 |
| 4 | Effects and mechanisms of biochar-microbe interactions in soil improvement and pollution remediation: A review. Environmental Pollution, 2017, 227, 98-115. | 7.5 | 634 |
| 5 | Insight into Multiple and Multilevel Structures of Biochars and Their Potential Environmental Applications: A Critical Review. Environmental Science & Technology, 2018, 52, 5027-5047. | 10.0 | 593 |
| 6 | Sorption of naphthalene and 1-naphthol by biochars of orange peels with different pyrolytic temperatures. Chemosphere, 2009, 76, 127-133. | 8.2 | 506 |
| 7 | Environmental Applications of Three-Dimensional Graphene-Based Macrostructures: Adsorption, Transformation, and Detection. Environmental Science & Technology, 2015, 49, 67-84. | 10.0 | 491 |
| 8 | Investigation of thermodynamic parameters in the pyrolysis conversion of biomass and manure to biochars using thermogravimetric analysis. Bioresource Technology, 2013, 146, 485-493. | 9.6 | 421 |
| 9 | Transformation, Morphology, and Dissolution of Silicon and Carbon in Rice Straw-Derived Biochars under Different Pyrolytic Temperatures. Environmental Science & Technology, 2014, 48, 3411-3419. | 10.0 | 406 |
| 10 | Macroscopic and Spectroscopic Investigations of the Adsorption of Nitroaromatic Compounds on Graphene Oxide, Reduced Graphene Oxide, and Graphene Nanosheets. Environmental Science & Technology, 2015, 49, 6181-6189. | 10.0 | 321 |
| 11 | Aromatic and Hydrophobic Surfaces of Wood-derived Biochar Enhance Perchlorate Adsorption via Hydrogen Bonding to Oxygen-containing Organic Groups. Environmental Science & Technology, 2014, 48, 279-288. | 10.0 | 315 |
| 12 | Adsorption and coadsorption of organic pollutants and a heavy metal by graphene oxide and reduced graphene materials. Chemical Engineering Journal, 2015, 281, 379-388. | 12.7 | 301 |
| 13 | Quantification of Chemical States, Dissociation Constants and Contents of Oxygen-containing Groups on the Surface of Biochars Produced at Different Temperatures. Environmental Science & Technology, 2015, 49, 309-317. | 10.0 | 277 |
| 14 | Fast and Slow Rates of Naphthalene Sorption to Biochars Produced at Different Temperatures. Environmental Science & Technology, 2012, 46, 11104-11111. | 10.0 | 269 |
| 15 | Aggregation, Adsorption, and Morphological Transformation of Graphene Oxide in Aqueous Solutions Containing Different Metal Cations. Environmental Science & Technology, 2016, 50, 11066-11075. | 10.0 | 265 |
| 16 | Sulfonated Graphene Nanosheets as a Superb Adsorbent for Various Environmental Pollutants in Water. Environmental Science & Technology, 2015, 49, 7364-7372. | 10.0 | 255 |
| 17 | Interactions of Aluminum with Biochars and Oxidized Biochars: Implications for the Biochar Aging Process. Journal of Agricultural and Food Chemistry, 2014, 62, 373-380. | 5.2 | 249 |
| 18 | Distributions of polycyclic aromatic hydrocarbons in surface waters, sediments and soils of Hangzhou City, China. Water Research, 2004, 38, 3558-3568. | 11.3 | 248 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Sorption of Poly- and Perfluoroalkyl Substances (PFASs) Relevant to Aqueous Film-Forming Foam (AFFF)-Impacted Groundwater by Biochars and Activated Carbon. Environmental Science & Technology, 2017, 51, 6342-6351. | 10.0 | 239 |
| 20 | Synthesis, decoration and properties of three-dimensional graphene-based macrostructures: A review. Chemical Engineering Journal, 2015, 264, 753-771. | 12.7 | 223 |
| 21 | Sorption of Polar and Nonpolar Aromatic Organic Contaminants by Plant Cuticular Materials:â€‰ Role of Polarity and Accessibility. Environmental Science & Technology, 2005, 39, 6138-6146. | 10.0 | 222 |
| 22 | Enhanced sorption of polycyclic aromatic hydrocarbons by soil amended with biochar. Journal of Soils and Sediments, 2011, 11, 62-71. | 3.0 | 221 |
| 23 | Sorption of Phenol,p-Nitrophenol, and Aniline to Dual-Cation Organobentonites from Water. Environmental Science & Technology, 2000, 34, 468-475. | 10.0 | 206 |
| 24 | Enhanced bioremediation of PAH-contaminated soil by immobilized bacteria with plant residue and biochar as carriers. Journal of Soils and Sediments, 2012, 12, 1350-1359. | 3.0 | 179 |
| 25 | Insights on the Molecular Mechanism for the Recalcitrance of Biochars: Interactive Effects of Carbon and Silicon Components. Environmental Science & Technology, 2014, 48, 9103-9112. | 10.0 | 179 |
| 26 | Structural characteristics of biochar-graphene nanosheet composites and their adsorption performance for phthalic acid esters. Chemical Engineering Journal, 2017, 319, 9-20. | 12.7 | 174 |
| 27 | Wrinkles and Folds of Activated Graphene Nanosheets as Fast and Efficient Adsorptive Sites for Hydrophobic Organic Contaminants. Environmental Science & Technology, 2016, 50, 3798-3808. | 10.0 | 173 |
| 28 | A Direct Observation of the Fine Aromatic Clusters and Molecular Structures of Biochars. Environmental Science & Technology, 2017, 51, 5473-5482. | 10.0 | 173 |
| 29 | Simultaneously Tuning Band Structure and Oxygen Reduction Pathway toward Highâ€Efficient Photocatalytic Hydrogen Peroxide Production Using Cyanoâ€Rich Graphitic Carbon Nitride. Advanced Functional Materials, 2021, 31, 2105731. | 14.9 | 167 |
| 30 | Self-assembly of graphene oxide aerogels by layered double hydroxides cross-linking and their application in water purification. Journal of Materials Chemistry A, 2014, 2, 8941-8951. | 10.3 | 163 |
| 31 | H/C atomic ratio as a smart linkage between pyrolytic temperatures, aromatic clusters and sorption properties of biochars derived from diverse precursory materials. Scientific Reports, 2016, 6, 22644. | 3.3 | 149 |
| 32 | Porous PVdF/GO Nanofibrous Membranes for Selective Separation and Recycling of Charged Organic Dyes from Water. Environmental Science & Technology, 2018, 52, 4265-4274. | 10.0 | 144 |
| 33 | Effective Alleviation of Aluminum Phytotoxicity by Manure-Derived Biochar. Environmental Science & Technology, 2013, 47, 2737-2745. | 10.0 | 140 |
| 34 | Bisolute Sorption and Thermodynamic Behavior of Organic Pollutants to Biomass-derived Biochars at Two Pyrolytic Temperatures. Environmental Science & Technology, 2012, 46, 12476-12483. | 10.0 | 139 |
| 35 | Sorption Behavior of p-Nitrophenol on the Interface between Anionâ"Cation Organobentonite and Water. Environmental Science & Technology, 2000, 34, 2997-3002. | 10.0 | 133 |
| 36 | Interactions of Organic Contaminants with Mineral-Adsorbed Surfactants. Environmental Science & Technology, 2003, 37, 4001-4006. | 10.0 | 133 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Configurations of the Bentonite-Sorbed Myristylpyridinium Cation and Their Influences on the Uptake of Organic Compounds. Environmental Science & Technology, 2005, 39, 6093-6100. | 10.0 | 130 |
| 38 | Self-Assembled Nano-FeO(OH)/Reduced Graphene Oxide Aerogel as a Reusable Catalyst for Photo-Fenton Degradation of Phenolic Organics. Environmental Science & Technology, 2018, 52, 7043-7053. | 10.0 | 121 |
| 39 | Biosorption and biodegradation of polycyclic aromatic hydrocarbons in aqueous solutions by a consortium of white-rot fungi. Journal of Hazardous Materials, 2010, 179, 845-851. | 12.4 | 120 |
| 40 | Solubilization and biodegradation of phenanthrene in mixed anionicâ€“nonionic surfactant solutions. Chemosphere, 2005, 58, 33-40. | 8.2 | 118 |
| 41 | Application of biochar-based materials in environmental remediation: from multi-level structures to specific devices. Biochar, 2020, 2, 1-31. | 12.6 | 118 |
| 42 | Stable graphene oxide/poly(ethyleneimine) 3D aerogel with tunable surface charge for high performance selective removal of ionic dyes from water. Chemical Engineering Journal, 2018, 334, 1119-1127. | 12.7 | 116 |
| 43 | Removal of polycyclic aromatic hydrocarbons from aqueous solution using plant residue materials as a biosorbent. Journal of Hazardous Materials, 2011, 188, 436-442. | 12.4 | 105 |
| 44 | In situ photochemical fabrication of CdS/g-C3N4 nanocomposites with high performance for hydrogen evolution under visible light. Applied Catalysis B: Environmental, 2019, 256, 117848. | 20.2 | 105 |
| 45 | Overall photosynthesis of H2O2 by an inorganic semiconductor. Nature Communications, 2022, 13, 1034. | 12.8 | 105 |
| 46 | Linking hydrophobicity of biochar to the water repellency and water holding capacity of biochar-amended soil. Environmental Pollution, 2019, 253, 779-789. | 7.5 | 103 |
| 47 | Application of graphene-based materials in water purification: from the nanoscale to specific devices. Environmental Science: Nano, 2018, 5, 1264-1297. | 4.3 | 102 |
| 48 | Aggregation Kinetics and Self-Assembly Mechanisms of Graphene Quantum Dots in Aqueous Solutions: Cooperative Effects of pH and Electrolytes. Environmental Science & Technology, 2017, 51, 1364-1376. | 10.0 | 97 |
| 49 | Synergistic effects of 2D graphene oxide nanosheets and 1D carbon nanotubes in the constructed 3D carbon aerogel for high performance pollutant removal. Chemical Engineering Journal, 2017, 314, 336-346. | 12.7 | 93 |
| 50 | Dual Role of Biochars as Adsorbents for Aluminum: The Effects of Oxygen-Containing Organic Components and the Scattering of Silicate Particles. Environmental Science & Technology, 2013, 47, 130719140420001. | 10.0 | 92 |
| 51 | Environmental Effects of Silicon within Biochar (Sichar) and Carbonâ€“Silicon Coupling Mechanisms: A Critical Review. Environmental Science & Technology, 2019, 53, 13570-13582. | 10.0 | 91 |
| 52 | Enhanced sorption of polycyclic aromatic hydrocarbons from aqueous solution by modified pine bark. Bioresource Technology, 2010, 101, 7307-7313. | 9.6 | 88 |
| 53 | Competitive adsorption of cadmium and aluminum onto fresh and oxidized biochars during aging processes. Journal of Soils and Sediments, 2015, 15, 1130-1138. | 3.0 | 88 |
| 54 | Nanocomposite Membrane with Polyethylenimine-Grafted Graphene Oxide as a Novel Additive to Enhance Pollutant Filtration Performance. Environmental Science & Technology, 2018, 52, 5920-5930. | 10.0 | 88 |

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| 55 | Durable Superhydrophobic/Superoleophilic Graphene-Based Foam for High-Efficiency Oil Spill Cleanups and Recovery. Environmental Science & Technology, 2019, 53, 1509-1517. | 10.0 | 85 |
| 56 | Understanding the mechanisms of soil water repellency from nanoscale to ecosystem scale: a review. Journal of Soils and Sediments, 2019, 19, 171-185. | 3.0 | 81 |
| 57 | Organic carbon and inorganic silicon speciation in rice-bran-derived biochars affect its capacity to adsorb cadmium in solution. Journal of Soils and Sediments, 2015, 15, 60-70. | 3.0 | 79 |
| 58 | Pollution survey of polycyclic aromatic hydrocarbons in surface water of Hangzhou, China. Chemosphere, 2004, 56, 1085-1095. | 8.2 | 77 |
| 59 | Adsorption of perchlorate onto raw and oxidized carbon nanotubes in aqueous solution. Carbon, 2012, 50, 2209-2219. | 10.3 | 77 |
| 60 | Removal of polycyclic aromatic hydrocarbons from aqueous solution by raw and modified plant residue materials as biosorbents. Journal of Environmental Sciences, 2014, 26, 737-748. | 6.1 | 76 |
| 61 | Adsorption and desorption of phthalic acid esters on graphene oxide and reduced graphene oxide as affected by humic acid. Environmental Pollution, 2018, 232, 505-513. | 7.5 | 75 |
| 62 | Graphene-coated materials using silica particles as a framework for highly efficient removal of aromatic pollutants in water. Scientific Reports, 2015, 5, 11641. | 3.3 | 72 |
| 63 | Covalently cross-linked graphene oxide aerogel with stable structure for high-efficiency water purification. Chemical Engineering Journal, 2018, 354, 896-904. | 12.7 | 68 |
| 64 | Size effects of graphene oxide nanosheets on the construction of three-dimensional graphene-based macrostructures as adsorbents. Journal of Materials Chemistry A, 2016, 4, 12106-12118. | 10.3 | 66 |
| 65 | Direct Observation, Molecular Structure, and Location of Oxidation Debris on Graphene Oxide Nanosheets. Environmental Science & Technology, 2016, 50, 8568-8577. | 10.0 | 64 |
| 66 | Sugar Cane-Converted Graphene-like Material for the Superhigh Adsorption of Organic Pollutants from Water via Coassembly Mechanisms. Environmental Science & Technology, 2017, 51, 12644-12652. | 10.0 | 63 |
| 67 | Enhanced bisphenol A removal from stormwater in biochar-amended biofilters: Combined with batch sorption and fixed-bed column studies. Environmental Pollution, 2018, 243, 1539-1549. | 7.5 | 61 |
| 68 | pH-dependent sorption of sulfonamide antibiotics onto biochars: Sorption mechanisms and modeling. Environmental Pollution, 2019, 248, 48-56. | 7.5 | 61 |
| 69 | A nonradical reaction-dominated phenol degradation with peroxydisulfate catalyzed by nitrogen-doped graphene. Science of the Total Environment, 2019, 667, 287-296. | 8.0 | 60 |
| 70 | Low-pressure driven electrospun membrane with tuned surface charge for efficient removal of polystyrene nanoplastics from water. Journal of Membrane Science, 2020, 614, 118470. | 8.2 | 59 |
| 71 | Perchlorate uptake and molecular mechanisms by magnesium/aluminum carbonate layered double hydroxides and the calcined layered double hydroxides. Chemical Engineering Journal, 2014, 237, 38-46. | 12.7 | 58 |
| 72 | Facile fabrication of stable monolayer and few-layer graphene nanosheets as superior sorbents for persistent aromatic pollutant management in water. Journal of Materials Chemistry A, 2014, 2, 18219-18224. | 10.3 | 57 |

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|---|---|---|---|
| 73 | Organic Pollutant Clustered in the Plant Cuticular Membranes: Visualizing the Distribution of Phenanthrene in Leaf Cuticle Using Two-Photon Confocal Scanning Laser Microscopy. Environmental Science & Technology, 2014, 48, 4774-4781. | 10.0 | 56 |
| 74 | Effects of biochar nanoparticles on seed germination and seedling growth. Environmental Pollution, 2020, 256, 113409. | 7.5 | 56 |
| 75 | Role of the Extractable Lipids and Polymeric Lipids in Sorption of Organic Contaminants onto Plant Cuticles. Environmental Science & Technology, 2008, 42, 1517-1523. | 10.0 | 55 |
| 76 | Sorption and Conformational Characteristics of Reconstituted Plant Cuticular Waxes on Montmorillonite. Environmental Science & Technology, 2005, 39, 8315-8323. | 10.0 | 54 |
| 77 | Novel Alleviation Mechanisms of Aluminum Phytotoxicity via Released Biosilicon from Rice Straw-Derived Biochars. Scientific Reports, 2016, 6, 29346. | 3.3 | 52 |
| 78 | Driving forces linking microbial community structure and functions to enhanced carbon stability in biochar-amended soil. Environment International, 2019, 133, 105211. | 10.0 | 49 |
| 79 | Resolution of Adsorption and Partition Components of Organic Compounds on Black Carbons. Environmental Science & Technology, 2015, 49, 9116-9123. | 10.0 | 48 |
| 80 | Magnetic biochar supported Î±-MnO2 nanorod for adsorption enhanced degradation of 4-chlorophenol via activation of peroxydisulfate. Science of the Total Environment, 2020, 724, 138278. | 8.0 | 45 |
| 81 | Biosorption and biodegradation of phenanthrene and pyrene in sterilized and unsterilized soil slurry systems stimulated by Phanerochaete chrysosporium. Journal of Hazardous Materials, 2012, 229-230, 159-169. | 12.4 | 44 |
| 82 | Microstructure of organo-bentonites in water and the effect of steric hindrance on the uptake of organic compounds. Clays and Clay Minerals, 2008, 56, 144-154. | 1.3 | 43 |
| 83 | Single-solute and bi-solute sorption of phenanthrene and pyrene onto pine needle cuticular fractions. Environmental Pollution, 2010, 158, 2478-2484. | 7.5 | 43 |
| 84 | Metal composition of layered double hydroxides (LDHs) regulating ClOâ^'4 adsorption to calcined LDHs via the memory effect and hydrogen bonding. Journal of Environmental Sciences, 2014, 26, 493-501. | 6.1 | 43 |
| 85 | Scalable graphene oxide membranes with tunable water channels and stability for ion rejection. Environmental Science: Nano, 2019, 6, 904-915. | 4.3 | 43 |
| 86 | Membranes prepared from graphene-based nanomaterials for sustainable applications: a review. Environmental Science: Nano, 2017, 4, 2267-2285. | 4.3 | 42 |
| 87 | Novel insights into effects of silicon-rich biochar (Sichar) amendment on cadmium uptake, translocation and accumulation in rice plants. Environmental Pollution, 2020, 265, 114772. | 7.5 | 42 |
| 88 | Efficient removal and mechanisms of water soluble aromatic contaminants by a reduced-charge bentonite modified with benzyltrimethylammonium cation. Chemosphere, 2008, 70, 1987-1994. | 8.2 | 41 |
| 89 | Biochar Impacts on Soil Silicon Dissolution Kinetics and their Interaction Mechanisms. Scientific Reports, 2018, 8, 8040. | 3.3 | 39 |
| 90 | Biosorption and biodegradation of polycyclic aromatic hydrocarbons by Phanerochaete chrysosporium in aqueous solution. Science Bulletin, 2013, 58, 613-621. | 1.7 | 38 |

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| 91 | Water clusters contributed to molecular interactions of ionizable organic pollutants with aromatized biochar via Ï€-PAHB: Sorption experiments and DFT calculations. Environmental Pollution, 2018, 240, 342-352. | 7.5 | 38 |
| 92 | Correlations of nonlinear sorption of organic solutes with soil/sediment physicochemical properties. Chemosphere, 2005, 61, 116-128. | 8.2 | 37 |
| 93 | Cobalt (II)-based openâ€framework systems constructed on g-C3N4 for extraordinary enhancing photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2020, 277, 119207. | 20.2 | 37 |
| 94 | Phenanthrene Sorption by Fruit Cuticles and Potato Periderm with Different Compositional Characteristics. Journal of Agricultural and Food Chemistry, 2009, 57, 637-644. | 5.2 | 36 |
| 95 | Synergistic oxytetracycline adsorption and peroxydisulfate-driven oxidation on nitrogen and sulfur co-doped porous carbon spheres. Journal of Hazardous Materials, 2022, 424, 127444. | 12.4 | 36 |
| 96 | Dependence of Plant Uptake and Diffusion of Polycyclic Aromatic Hydrocarbons on the Leaf Surface Morphology and Micro-structures of Cuticular Waxes. Scientific Reports, 2017, 7, 46235. | 3.3 | 33 |
| 97 | Bimetal organic framework/graphene oxide derived magnetic porous composite catalyst for peroxymonosulfate activation in fast organic pollutant degradation. Journal of Hazardous Materials, 2021, 419, 126427. | 12.4 | 33 |
| 98 | Role of Suberin, Suberan, and Hemicellulose in Phenanthrene Sorption by Root Tissue Fractions of Switchgrass (Panicum virgatum) Seedlings. Environmental Science & Technology, 2009, 43, 4130-4136. | 10.0 | 32 |
| 99 | Biochar composite membrane for high performance pollutant management: Fabrication, structural characteristics and synergistic mechanisms. Environmental Pollution, 2018, 233, 1013-1023. | 7.5 | 32 |
| 100 | Enhanced Microbial Ferrihydrite Reduction by Pyrogenic Carbon: Impact of Graphitic Structures. Environmental Science & Technology, 2022, 56, 239-250. | 10.0 | 31 |
| 101 | Sorption characteristics and mechanisms of organic contaminant to carbonaceous biosorbents in aqueous solution. Science in China Series B: Chemistry, 2008, 51, 464-472. | 0.8 | 30 |
| 102 | Enhanced sorption of naphthalene and nitroaromatic compounds to bentonite by potassium and cetyltrimethylammonium cations. Journal of Hazardous Materials, 2008, 158, 116-123. | 12.4 | 30 |
| 103 | Interaction mechanisms of organic contaminants with burned straw ash charcoal. Journal of Environmental Sciences, 2010, 22, 1586-1594. | 6.1 | 30 |
| 104 | Stable Graphene-Based Membrane with pH-Responsive Gates for Advanced Molecular Separation. Environmental Science & Technology, 2019, 53, 10398-10407. | 10.0 | 30 |
| 105 | Effects of biochar amendment on the soil silicon cycle in a soil-rice ecosystem. Environmental Pollution, 2019, 248, 823-833. | 7.5 | 30 |
| 106 | Facile synthesis of porous CoFe2O4/graphene aerogel for catalyzing efficient removal of organic pollutants. Science of the Total Environment, 2021, 775, 143398. | 8.0 | 30 |
| 107 | Reduction and removal of Cr(VI) in water using biosynthesized palladium nanoparticles loaded Shewanella oneidensis MR-1. Science of the Total Environment, 2022, 805, 150336. | 8.0 | 29 |
| 108 | Microfluidics as an Emerging Platform for Exploring Soil Environmental Processes: A Critical Review. Environmental Science & Technology, 2022, 56, 711-731. | 10.0 | 29 |

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|---|---|---|---|
| 109 | Effects of compositional heterogeneity and nanoporosity of raw and treated biomass-generated soot on adsorption and absorption of organic contaminants. Environmental Pollution, 2011, 159, 550-556. | 7.5 | 28 |
| 110 | Reconsideration of heterostructures of biochars: Morphology, particle size, elemental composition, reactivity and toxicity. Environmental Pollution, 2019, 254, 113017. | 7.5 | 28 |
| 111 | Graphene nanofiltration membrane intercalated with AgNP@g-C3N4 for efficient water purification and photocatalytic self-cleaning performance. Chemical Engineering Journal, 2022, 441, 136089. | 12.7 | 28 |
| 112 | Uniformly Dispersed Metal Sulfide Nanodots on g-C<sub>3</sub>N<sub>4</sub> as Bifunctional Catalysts for High-Efficiency Photocatalytic H<sub>2</sub> and H<sub>2</sub>O<sub>2</sub> Production under Visible-Light Irradiation. Energy & Fuels, 2021, 35, 10746-10755. | 5.1 | 27 |
| 113 | Adsorptive Characteristics of the Siloxane Surfaces of Reduced-Charge Bentonites Saturated with Tetramethylammonium Cation. Environmental Science & Technology, 2008, 42, 7911-7917. | 10.0 | 26 |
| 114 | Enhanced dissipation of polycyclic aromatic hydrocarbons in the presence of fresh plant residues and their extracts. Environmental Pollution, 2012, 161, 199-205. | 7.5 | 26 |
| 115 | A New Insight of Graphene oxide-Fe(III) Complex Photochemical Behaviors under Visible Light Irradiation. Scientific Reports, 2017, 7, 40711. | 3.3 | 26 |
| 116 | Novel photocatalytic performance of nanocage-like MIL-125-NH<sub>2</sub> induced by adsorption of phenolic pollutants. Environmental Science: Nano, 2020, 7, 1525-1538. | 4.3 | 26 |
| 117 | Diel Fluctuation of Extracellular Reactive Oxygen Species Production in the Rhizosphere of Rice. Environmental Science & Technology, 2022, 56, 9075-9082. | 10.0 | 25 |
| 118 | Tide-Triggered Production of Reactive Oxygen Species in Coastal Soils. Environmental Science & Technology, 2022, 56, 11888-11896. | 10.0 | 25 |
| 119 | Reduced bioavailability and plant uptake of polycyclic aromatic hydrocarbons from soil slurry amended with biochars pyrolyzed under various temperatures. Environmental Science and Pollution Research, 2018, 25, 16991-17001. | 5.3 | 23 |
| 120 | Membrane hydrophilicity switching via molecular design and re-construction of the functional additive for enhanced fouling resistance. Journal of Membrane Science, 2019, 588, 117222. | 8.2 | 23 |
| 121 | Effect of background electrolytes on the adsorption of nitroaromatic compounds onto bentonite. Journal of Environmental Sciences, 2009, 21, 1044-1052. | 6.1 | 21 |
| 122 | Effect of fulvic acid coating on biochar surface structure and sorption properties towards 4-chlorophenol. Science of the Total Environment, 2019, 691, 595-604. | 8.0 | 21 |
| 123 | High Sample Throughput LED Reactor for Facile Characterization of the Quantum Yield Spectrum of Photochemically Produced Reactive Intermediates. Environmental Science & Technology, 2021, 55, 16204-16214. | 10.0 | 21 |
| 124 | Selective Separation Catalysis Membrane for Highly Efficient Water and Soil Decontamination via a Persulfate-Based Advanced Oxidation Process. Environmental Science & Technology, 2022, 56, 3234-3244. | 10.0 | 20 |
| 125 | Underwater superoleophobic PVAâ€“GO nanofibrous membranes for emulsified oily water purification. Environmental Science: Nano, 2019, 6, 3723-3733. | 4.3 | 19 |
| 126 | Surfactant Effects on the Affinity of Plant Cuticles with Organic Pollutants. Journal of Agricultural and Food Chemistry, 2009, 57, 3681-3688. | 5.2 | 18 |

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|---|---|---|---|
| 127 | Enhanced photocatalytic hydrogen peroxide production at a solid-liquid-air interface via microenvironment engineering. Applied Catalysis B: Environmental, 2022, 305, 121066. | 20.2 | 18 |
| 128 | Sorption Behavior of Polycyclic Aromatic Hydrocarbons in Soilâ€“Water System Containing Nonionic Surfactant. Environmental Engineering Science, 2004, 21, 263-272. | 1.6 | 16 |
| 129 | Konjac glucomannan biopolymer as a multifunctional binder to build a solid permeable interface on Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>/C cathodes for high-performance sodium ion batteries. Journal of Materials Chemistry A, 2021, 9, 9864-9874. | 10.3 | 16 |
| 130 | Effects of ionizable organic compounds in different species on the sorption of p-nitroaniline to sediment. Water Research, 2005, 39, 281-288. | 11.3 | 15 |
| 131 | Facile fabrication of crumpled graphene oxide nanosheets and its Platinum nanohybrids for high efficient catalytic activity. Environmental Pollution, 2018, 243, 1810-1817. | 7.5 | 15 |
| 132 | Designing a Nanoscale Three-phase Electrochemical Pathway to Promote Pt-catalyzed Formaldehyde Oxidation. Nano Letters, 2020, 20, 8719-8724. | 9.1 | 15 |
| 133 | In situ quantitative determination of the intermolecular attraction between amines and a graphene surface using atomic force microscopy. Journal of Colloid and Interface Science, 2021, 581, 385-395. | 9.4 | 15 |
| 134 | Biochar-amendment-reduced cotransport of graphene oxide nanoparticles and dimethyl phthalate in saturated porous media. Science of the Total Environment, 2020, 705, 135094. | 8.0 | 14 |
| 135 | Reduced graphene oxide/TiO2(B) immobilized on nylon membrane with enhanced photocatalytic performance. Science of the Total Environment, 2021, 799, 149370. | 8.0 | 14 |
| 136 | Enhanced oxidation of benzo[a]pyrene by crude enzyme extracts produced during interspecific fungal interaction of Trametes versicolor and Phanerochaete chrysosporium. Journal of Environmental Sciences, 2012, 24, 1639-1646. | 6.1 | 13 |
| 137 | Organic Pollutant Penetration through Fruit Polyester Skin: A Modified Three-compartment Diffusion Model. Scientific Reports, 2016, 6, 23554. | 3.3 | 13 |
| 138 | Facile fabrication of freestanding all-carbon activated carbon membranes for high-performance and universal pollutant management. Journal of Materials Chemistry A, 2017, 5, 20316-20326. | 10.3 | 13 |
| 139 | Triplex Blue-shifting Hydrogen Bonds of ClO<sub>4</sub><sup>â€“</sup>Â·Â·Â·Hâ€“C in the Nanointerlayer of Montmorillonite Complexed with Cetyltrimethylammonium Cation from Hydrophilic to Hydrophobic Properties. Environmental Science & Technology, 2013, 47, 11013-11022. | 10.0 | 12 |
| 140 | Inoculation of soil with an Isoproturon degrading microbial community reduced the pool of â€œreal non-extractableâ€•Isoproturon residues. Ecotoxicology and Environmental Safety, 2018, 149, 182-189. | 6.0 | 12 |
| 141 | Contribution of enrofloxacin and Cu2+ to the antibiotic resistance of bacterial community in a river biofilm. Environmental Pollution, 2021, 291, 118156. | 7.5 | 12 |
| 142 | The effect of structural compositions on the biosorption of phenanthrene and pyrene by tea leaf residue fractions as model biosorbents. Environmental Science and Pollution Research, 2014, 21, 3318-3330. | 5.3 | 11 |
| 143 | Immobilizing 1â€“3â€¯nm Ag nanoparticles in reduced graphene oxide aerogel as a high-effective catalyst for reduction of nitroaromatic compounds. Environmental Pollution, 2020, 256, 113405. | 7.5 | 11 |
| 144 | Nanoscale Profiling of 2D Surface Hydrophobicity Recognition of Environmental Media via AFM Measurements In Situ. Environmental Science & Technology, 2020, 54, 9315-9324. | 10.0 | 11 |

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|---|---|---|---|
| 145 | Constructing the Support as a Microreactor and Regenerator for Highly Active and In Situ Regenerative Hydrogenation Catalyst. Advanced Functional Materials, 2021, 31, 2100971. | 14.9 | 11 |
| 146 | Selectively coupled small Pd nanoparticles on sp2-hybridized domain of graphene-based aerogel with enhanced catalytic activity and stability. Science of the Total Environment, 2021, 771, 145396. | 8.0 | 11 |
| 147 | Janus Membrane with Bioinspired Heterogeneous Morphology for Efficient Fog Harvesting. ACS ES&T Engineering, 2021, 1, 1217-1226. | 7.6 | 11 |
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