Baoshan Xing

List of Publications by Year
in descending order

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562 papers	44,069 citations	1799 103 h-index	3650 180 g-index
569 all docs	569 docs citations	569 times ranked	30098 citing authors

#	Article	IF	Citations
1	Phytotoxicity of nanoparticles: Inhibition of seed germination and root growth. Environmental Pollution, 2007, 150, 243-250.	7.5	1,481
2	Root Uptake and Phytotoxicity of ZnO Nanoparticles. Environmental Science & Technology, 2008, 42, 5580-5585.	10.0	981
3	Adsorption of Organic Compounds by Carbon Nanomaterials in Aqueous Phase: Polanyi Theory and Its Application. Chemical Reviews, 2010, 110, 5989-6008.	47.7	741
4	Bacterial toxicity comparison between nano- and micro-scaled oxide particles. Environmental Pollution, 2009, 157, 1619-1625.	7.5	720
5	Adsorption of Polycyclic Aromatic Hydrocarbons by Carbon Nanomaterials. Environmental Science & Technology, 2006, 40, 1855-1861.	10.0	699
6	Effects and mechanisms of biochar-microbe interactions in soil improvement and pollution remediation: A review. Environmental Pollution, 2017, 227, 98-115.	7.5	634
7	An Overview of Plant Phenolic Compounds and Their Importance in Human Nutrition and Management of Type 2 Diabetes. Molecules, 2016, 21, 1374.	3.8	629
8	Differentially charged nanoplastics demonstrate distinct accumulation in Arabidopsis thaliana. Nature Nanotechnology, 2020, 15, 755-760.	31.5	619
9	Xylem- and Phloem-Based Transport of CuO Nanoparticles in Maize (Zea mays L.). Environmental Science & Technology, 2012, 46, 4434-4441.	10.0	601
10	Graphene in the Aquatic Environment: Adsorption, Dispersion, Toxicity and Transformation. Environmental Science & Technology, 2014, 48, 9995-10009.	10.0	573
11	Toxicity of nanoparticulate and bulk ZnO, Al2O3 and TiO2 to the nematode Caenorhabditis elegans. Environmental Pollution, 2009, 157, 1171-1177.	7.5	451
12	Black Carbon (Biochar) In Water/Soil Environments: Molecular Structure, Sorption, Stability, and Potential Risk. Environmental Science & Technology, 2017, 51, 13517-13532.	10.0	441
13	Copper Oxide Nanoparticle Mediated DNA Damage in Terrestrial Plant Models. Environmental Science & Technology, 2012, 46, 1819-1827.	10.0	424
14	Environmental source, fate, and toxicity of microplastics. Journal of Hazardous Materials, 2021, 407, 124357.	12.4	414
15	Adsorption and Hysteresis of Bisphenol A and 17Î±-Ethinyl Estradiol on Carbon Nanomaterials. Environmental Science & Technology, 2008, 42, 5480-5485.	10.0	405
16	Impacts of adding biochar on nitrogen retention and bioavailability in agricultural soil. Geoderma, 2013, 206, 32-39.	5.1	365
17	Nano-Biotechnology in Agriculture: Use of Nanomaterials to Promote Plant Growth and Stress Tolerance. Journal of Agricultural and Food Chemistry, 2020, 68, 1935-1947.	5.2	363
18	Investigating the mechanisms of biocharâ€™s removal of lead from solution. Bioresource Technology, 2015, 177, 308-317.	9.6	337

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19	Sorption of antibiotic sulfamethoxazole varies with biochars produced at different temperatures. Environmental Pollution, 2013, 181, 60-67.	7.5	334
20	Effect of Surface Charge on the Uptake and Distribution of Gold Nanoparticles in Four Plant Species. Environmental Science & Technology, 2012, 46, 12391-12398.	10.0	332
21	Detecting Free Radicals in Biochars and Determining Their Ability to Inhibit the Germination and Growth of Corn, Wheat and Rice Seedlings. Environmental Science & Technology, 2014, 48, 8581-8587.	10.0	330
22	Enhanced adsorption of Cu(II) and Cd(II) by phosphoric acid-modified biochars. Environmental Pollution, 2017, 229, 846-853.	7.5	330
23	Metal-Based Nanotoxicity and Detoxification Pathways in Higher Plants. Environmental Science & Technology, 2015, 49, 7109-7122.	10.0	327
24	Toxicity and Internalization of CuO Nanoparticles to Prokaryotic Alga Microcystis aeruginosa as Affected by Dissolved Organic Matter. Environmental Science & Technology, 2011, 45, 6032-6040.	10.0	323
25	Sorption of Four Hydrophobic Organic Compounds by Three Chemically Distinct Polymers: Role of Chemical and Physical Composition. Environmental Science & Technology, 2012, 46, 7252-7259.	10.0	319
26	Fate and Transport of Engineered Nanomaterials in the Environment. Journal of Environmental Quality, 2010, 39, 1896-1908.	2.0	314
27	Sorption of bisphenol A, 17Î±-ethinyl estradiol and phenanthrene on thermally and hydrothermally produced biochars. Bioresource Technology, 2011, 102, 5757-5763.	9.6	312
28	Sorption Hysteresis of Benzene in Charcoal Particles. Environmental Science & Technology, 2003, 37, 409-417.	10.0	305
29	Degradation of p-Nitrophenol on Biochars: Role of Persistent Free Radicals. Environmental Science & Technology, 2016, 50, 694-700.	10.0	302
30	Characteristics and nutrient values of biochars produced from giant reed at different temperatures. Bioresource Technology, 2013, 130, 463-471.	9.6	301
31	Phenanthrene Sorption to Sequentially Extracted Soil Humic Acids and Humins. Environmental Science & Technology, 2005, 39, 134-140.	10.0	298
32	Microplastics in aquatic environments: Toxicity to trigger ecological consequences. Environmental Pollution, 2020, 261, 114089.	7.5	292
33	Tannic Acid Adsorption and Its Role for Stabilizing Carbon Nanotube Suspensions. Environmental Science & Technology, 2008, 42, 5917-5923.	10.0	283
34	CuO Nanoparticle Interaction with Human Epithelial Cells: Cellular Uptake, Location, Export, and Genotoxicity. Chemical Research in Toxicology, 2012, 25, 1512-1521.	3.3	269
35	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
36	Effects of Solution Chemistry on Adsorption of Selected Pharmaceuticals and Personal Care Products (PPCPs) by Graphenes and Carbon Nanotubes. Environmental Science & Technology, 2014, 48, 13197-13206.	10.0	246

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37	Nanoparticle interactions with co-existing contaminants: joint toxicity, bioaccumulation and risk. Nanotoxicology, 2017, 11, 591-612.	3.0	244
38	Sorption mechanisms of perfluorinated compounds on carbon nanotubes. Environmental Pollution, 2012, 168, 138-144.	7.5	231
39	Sorption of Organic Contaminants by Carbon Nanotubes: Influence of Adsorbed Organic Matter. Environmental Science & Technology, 2008, 42, 3207-3212.	10.0	225
40	Adsorption and Desorption of Oxytetracycline and Carbamazepine by Multiwalled Carbon Nanotubes. Environmental Science & Technology, 2009, 43, 9167-9173.	10.0	221
41	Relative Role of Aliphatic and Aromatic Moieties as Sorption Domains for Organic Compounds: A Review. Environmental Science & Technology, 2009, 43, 1680-1688.	10.0	216
42	Impact of Deashing Treatment on Biochar Structural Properties and Potential Sorption Mechanisms of Phenanthrene. Environmental Science & Technology, 2013, 47, 11473-11481.	10.0	216
43	Contribution of Different Sulfamethoxazole Species to Their Overall Adsorption on Functionalized Carbon Nanotubes. Environmental Science & Technology, 2010, 44, 3806-3811.	10.0	212
44	Norfloxacin Sorption and Its Thermodynamics on Surface-Modified Carbon Nanotubes. Environmental Science & Technology, 2010, 44, 978-984.	10.0	208
45	Environmental processes and toxicity of metallic nanoparticles in aquatic systems as affected by natural organic matter. Environmental Science: Nano, 2016, 3, 240-255.	4.3	208
46	Physiological and Molecular Response of Arabidopsis thaliana (L.) to Nanoparticle Cerium and Indium Oxide Exposure. ACS Sustainable Chemistry and Engineering, 2013, 1, 768-778.	6.7	207
47	Mechanistic understanding toward the toxicity of graphene-family materials to freshwater algae. Water Research, 2017, 111, 18-27.	11.3	203
48	Some concepts of soil organic carbon characteristics and mineral interaction from a review of literature. Soil Biology and Biochemistry, 2016, 94, 107-121.	8.8	198
49	Adsorption of Pb(II) and Cd(II) by magnetic activated carbon and its mechanism. Science of the Total Environment, 2021, 757, 143910.	8.0	195
50	Enhanced growth of halophyte plants in biocharâ€amended coastal soil: roles of nutrient availability and rhizosphere microbial modulation. Plant, Cell and Environment, 2018, 41, 517-532.	5.7	194
51	Colloidal Behavior of Aluminum Oxide Nanoparticles As Affected by pH and Natural Organic Matter. Langmuir, 2008, 24, 12385-12391.	3.5	192
52	Considerations of Environmentally Relevant Test Conditions for Improved Evaluation of Ecological Hazards of Engineered Nanomaterials. Environmental Science & Technology, 2016, 50, 6124-6145.	10.0	191
53	Photodegradation Elevated the Toxicity of Polystyrene Microplastics to Grouper (Epinephelus) Tj ETQq1 1 0.784314 rgBT /Overloc 2020, 54, 6202-6212.	10.0	187
54	Heteroaggregation of Graphene Oxide with Minerals in Aqueous Phase. Environmental Science & Technology, 2015, 49, 2849-2857.	10.0	182

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55	Uptake, translocation and physiological effects of magnetic iron oxide (Î³-Fe2O3) nanoparticles in corn (Zea mays L.). Chemosphere, 2016, 159, 326-334.	8.2	181
56	Formation and Physicochemical Characteristics of Nano Biochar: Insight into Chemical and Colloidal Stability. Environmental Science & Technology, 2018, 52, 10369-10379.	10.0	178
57	Sorption of naphthalene and phenanthrene by soil humic acids. Environmental Pollution, 2001, 111, 303-309.	7.5	177
58	Multivariate geostatistical analysis and source identification of heavy metals in the sediment of Poyang Lake in China. Science of the Total Environment, 2018, 621, 1433-1444.	8.0	176
59	Jointed toxicity of TiO2 NPs and Cd to rice seedlings: NPs alleviated Cd toxicity and Cd promoted NPs uptake. Plant Physiology and Biochemistry, 2017, 110, 82-93.	5.8	174
60	Nano-enabled fertilizers to control the release and use efficiency of nutrients. Current Opinion in Environmental Science and Health, 2018, 6, 77-83.	4.1	174
61	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
62	One-step synthesis of a novel N-doped microporous biochar derived from crop straws with high dye adsorption capacity. Journal of Environmental Management, 2016, 176, 61-68.	7.8	172
63	Biochar-induced negative carbon mineralization priming effects in a coastal wetland soil: Roles of soil aggregation and microbial modulation. Science of the Total Environment, 2018, 610-611, 951-960.	8.0	170
64	Interaction of Microplastics with Antibiotics in Aquatic Environment: Distribution, Adsorption, and Toxicity. Environmental Science & Technology, 2021, 55, 15579-15595.	10.0	169
65	Humic Acid Fractionation upon Sequential Adsorption onto Goethite. Langmuir, 2008, 24, 2525-2531.	3.5	164
66	CuO Nanoparticle Interaction with Arabidopsis thaliana: Toxicity, Parent-Progeny Transfer, and Gene Expression. Environmental Science & Technology, 2016, 50, 6008-6016.	10.0	160
67	Cryptic footprints of rare earth elements on natural resources and living organisms. Environment International, 2019, 127, 785-800.	10.0	159
68	The effect of ionic strength and pH on the stability of tannic acid-facilitated carbon nanotube suspensions. Carbon, 2009, 47, 2875-2882.	10.3	157
69	Characterization and influence of biochars on nitrous oxide emission from agricultural soil. Environmental Pollution, 2013, 174, 289-296.	7.5	156
70	Combined effects of biochar properties and soil conditions on plant growth: A meta-analysis. Science of the Total Environment, 2020, 713, 136635.	8.0	156
71	Biocharâ€™s stability and effect on the content, composition and turnover of soil organic carbon. Geoderma, 2020, 364, 114184.	5.1	154
72	Mitigation of CuO nanoparticle-induced bacterial membrane damage by dissolved organic matter. Water Research, 2013, 47, 4169-4178.	11.3	152

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73	Physicochemical properties of herb-residue biochar and its sorption to ionizable antibiotic sulfamethoxazole. Chemical Engineering Journal, 2014, 248, 128-134.	12.7	152
74	Carbon nanomaterials alter plant physiology and soil bacterial community composition in a rice-soil-bacterial ecosystem. Environmental Pollution, 2018, 232, 123-136.	7.5	152
75	Distribution of CuO nanoparticles in juvenile carp (Cyprinus carpio) and their potential toxicity. Journal of Hazardous Materials, 2011, 197, 304-310.	12.4	151
76	Sorption of fluorinated herbicides to plant biomass-derived biochars as a function of molecular structure. Bioresource Technology, 2011, 102, 9897-9903.	9.6	148
77	Enhanced Adsorption of p-Arsanilic Acid from Water by Amine-Modified UiO-67 as Examined Using Extended X-ray Absorption Fine Structure, X-ray Photoelectron Spectroscopy, and Density Functional Theory Calculations. Environmental Science & Technology, 2018, 52, 3466-3475.	10.0	148
78	Synergy between cobalt and nickel on NiCo2O4 nanosheets promotes peroxymonosulfate activation for efficient norfloxacin degradation. Applied Catalysis B: Environmental, 2022, 306, 121091.	20.2	148
79	Strong Sorption of Phenanthrene by Condensed Organic Matter in Soils and Sediments. Environmental Science & Technology, 2007, 41, 3952-3958.	10.0	144
80	Particle-Size Dependent Accumulation and Trophic Transfer of Cerium Oxide through a Terrestrial Food Chain. Environmental Science & Technology, 2014, 48, 13102-13109.	10.0	143
81	New Evidence for High Sorption Capacity of Hydrochar for Hydrophobic Organic Pollutants. Environmental Science & Technology, 2016, 50, 13274-13282.	10.0	142
82	Phytotoxic Mechanism of Nanoparticles: Destruction of Chloroplasts and Vascular Bundles and Alteration of Nutrient Absorption. Scientific Reports, 2015, 5, 11618.	3.3	141
83	Effects of CuO nanoparticles on insecticidal activity and phytotoxicity in conventional and transgenic cotton. Chemosphere, 2016, 144, 661-670.	8.2	138
84	Environmentally persistent free radicals: Occurrence, formation mechanisms and implications. Environmental Pollution, 2019, 248, 320-331.	7.5	135
85	Sorption of Organic Contaminants by Biopolymer-Derived Chars. Environmental Science & Technology, 2007, 41, 8342-8348.	10.0	131
86	Defense mechanisms and nutrient displacement in Arabidopsis thaliana upon exposure to CeO₂ and In₂O₃ nanoparticles. Environmental Science: Nano, 2016, 3, 1369-1379.	4.3	131
87	Uptake of Engineered Nanoparticles by Food Crops: Characterization, Mechanisms, and Implications. Annual Review of Food Science and Technology, 2018, 9, 129-153.	9.9	131
88	Sorption Mechanisms of Phenanthrene, Lindane, and Atrazine with Various Humic Acid Fractions from a Single Soil Sample. Environmental Science & Technology, 2011, 45, 2124-2130.	10.0	129
89	Adsorption of Aromatic Carboxylate Ions to Black Carbon (Biochar) Is Accompanied by Proton Exchange with Water. Environmental Science & Technology, 2011, 45, 9240-9248.	10.0	128
90	Identification and Characterization of Sorption Domains in Soil Organic Matter Using Structurally Modified Humic Acids. Environmental Science & Technology, 2003, 37, 852-858.	10.0	125

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91	Adsorption and Desorption of Phenanthrene on Carbon Nanotubes in Simulated Gastrointestinal Fluids. Environmental Science & Technology, 2011, 45, 6018-6024.	10.0	125
92	Size Effect on the Cytotoxicity of Layered Black Phosphorus and Underlying Mechanisms. Small, 2017, 13, 1701210.	10.0	124
93	Sorption of Phenanthrene by Humic Acid-Coated Nanosized TiO₂ and ZnO. Environmental Science & Technology, 2009, 43, 1845-1851.	10.0	122
94	Selective removal of polycyclic aromatic hydrocarbons (PAHs) from soil washing effluents using biochars produced at different pyrolytic temperatures. Bioresource Technology, 2014, 163, 193-198.	9.6	122
95	Removal of antimony (III) and cadmium (II) from aqueous solution using animal manure-derived hydrochars and pyrochars. Bioresource Technology, 2017, 234, 77-85.	9.6	122
96	Clay Minerals Affect the Stability of Surfactant-Facilitated Carbon Nanotube Suspensions. Environmental Science & Technology, 2008, 42, 6869-6875.	10.0	120
97	Alteration of Crop Yield and Quality of Wheat upon Exposure to Silver Nanoparticles in a Life Cycle Study. Journal of Agricultural and Food Chemistry, 2018, 66, 2589-2597.	5.2	120
98	Interactions of CuO nanoparticles with the algae Chlorella pyrenoidosa: adhesion, uptake, and toxicity. Nanotoxicology, 2016, 10, 1297-1305.	3.0	120
99	Effect of humic acid (HA) on sulfonamide sorption by biochars. Environmental Pollution, 2015, 204, 306-312.	7.5	118
100	Adsorption of Dicarboxylic Acids by Clay Minerals as Examined byin SituATR-FTIR andex SituDRIFT. Langmuir, 2007, 23, 7024-7031.	3.5	117
101	Microplastics Reduce Lipid Digestion in Simulated Human Gastrointestinal System. Environmental Science & Technology, 2020, 54, 12285-12294.	10.0	115
102	Dissolved Organic Matter Conformation and Its Interaction with Pyrene As Affected by Water Chemistry and Concentration. Environmental Science & Technology, 2008, 42, 1594-1599.	10.0	113
103	Sorption of four hydrophobic organic contaminants by biochars derived from maize straw, wood dust and swine manure at different pyrolytic temperatures. Chemosphere, 2016, 144, 285-291.	8.2	113
104	Size Matters: Nano-Biochar Triggers Decomposition and Transformation Inhibition of Antibiotic Resistance Genes in Aqueous Environments. Environmental Science & Technology, 2020, 54, 8821-8829.	10.0	111
105	Application of Hydrochar Altered Soil Microbial Community Composition and the Molecular Structure of Native Soil Organic Carbon in a Paddy Soil. Environmental Science & Technology, 2020, 54, 2715-2725.	10.0	111
106	Adsorption of sulfonamides on reduced graphene oxides as affected by pH and dissolved organic matter. Environmental Pollution, 2016, 210, 85-93.	7.5	109
107	High Adsorption of Sulfamethoxazole by an Amine-Modified Polystyreneâ€“Divinylbenzene Resin and Its Mechanistic Insight. Environmental Science & Technology, 2016, 50, 10015-10023.	10.0	108
108	Degradation of p-Nitrophenol by Lignin and Cellulose Chars: H₂O₂-Mediated Reaction and Direct Reaction with the Char. Environmental Science & Technology, 2017, 51, 8972-8980.	10.0	108

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109	Reduced nitrification and abundance of ammonia-oxidizing bacteria in acidic soil amended with biochar. Chemosphere, 2015, 138, 576-583.	8.2	107
110	Preparation and Application of Starch/Polyvinyl Alcohol/Citric Acid Ternary Blend Antimicrobial Functional Food Packaging Films. Polymers, 2017, 9, 102.	4.5	106
111	Nano-enabled improvements of growth and nutritional quality in food plants driven by rhizosphere processes. Environment International, 2020, 142, 105831.	10.0	106
112	Potential Applications and Antifungal Activities of Engineered Nanomaterials against Gray Mold Disease Agent Botrytis cinerea on Rose Petals. Frontiers in Plant Science, 2017, 8, 1332.	3.6	105
113	Sorption and Desorption Mechanisms of Cationic and Zwitterionic Per- and Polyfluoroalkyl Substances in Natural Soils: Thermodynamics and Hysteresis. Environmental Science & Technology, 2019, 53, 11818-11827.	10.0	105
114	Negative Impacts of Biochars on Urease Activity: High pH, Heavy Metals, Polycyclic Aromatic Hydrocarbons, or Free Radicals?. Environmental Science & Technology, 2018, 52, 12740-12747.	10.0	104
115	Carbon Nanotubes Filled with Different Ferromagnetic Alloys Affect the Growth and Development of Rice Seedlings by Changing the C:N Ratio and Plant Hormones Concentrations. PLoS ONE, 2016, 11, e0157264.	2.5	104
116	Properties of biochar-amended soils and their sorption of imidacloprid, isoproturon, and atrazine. Science of the Total Environment, 2016, 550, 504-513.	8.0	102
117	Adsorption of Phenanthrene on Multilayer Graphene as Affected by Surfactant and Exfoliation. Environmental Science & Technology, 2014, 48, 331-339.	10.0	101
118	Environmental occurrence, fate, impact, and potential solution of tire microplastics: Similarities and differences with tire wear particles. Science of the Total Environment, 2021, 795, 148902.	8.0	101
119	The effect of biochar nanoparticles on rice plant growth and the uptake of heavy metals: Implications for agronomic benefits and potential risk. Science of the Total Environment, 2019, 656, 9-18.	8.0	99
120	Analysis of Silver Nanoparticles in Antimicrobial Products Using Surface-Enhanced Raman Spectroscopy (SERS). Environmental Science & Technology, 2015, 49, 4317-4324.	10.0	98
121	Advanced material modulation of nutritional and phytohormone status alleviates damage from soybean sudden death syndrome. Nature Nanotechnology, 2020, 15, 1033-1042.	31.5	98
122	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
123	Phytotoxicity of Silver Nanoparticles to Peanut (Arachis hypogaea L.): Physiological Responses and Food Safety. ACS Sustainable Chemistry and Engineering, 2017, 5, 6557-6567.	6.7	97
124	Facile synthesis of multifunctional bone biochar composites decorated with Fe/Mn oxide micro-nanoparticles: Physicochemical properties, heavy metals sorption behavior and mechanism. Journal of Hazardous Materials, 2020, 399, 123067.	12.4	97
125	Algae response to engineered nanoparticles: current understanding, mechanisms and implications. Environmental Science: Nano, 2019, 6, 1026-1042.	4.3	96
126	Impact of Ag Nanoparticle Exposure on p,pâ€²-DDE Bioaccumulation by Cucurbita pepo (Zucchini) and Glycine max (Soybean). Environmental Science & Technology, 2013, 47, 718-725.	10.0	95

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127	Oxidative stress-induced toxicity of CuO nanoparticles and related toxicogenomic responses in Arabidopsis thaliana. Environmental Pollution, 2016, 212, 605-614.	7.5	95
128	Comparative impacts of iron oxide nanoparticles and ferric ions on the growth of Citrus maxima. Environmental Pollution, 2017, 221, 199-208.	7.5	93
129	Effect of minerals on the stability of biochar. Chemosphere, 2018, 204, 310-317.	8.2	93
130	Effect of metal oxide nanoparticles on amino acids in wheat grains (Triticum aestivum) in a life cycle study. Journal of Environmental Management, 2019, 241, 319-327.	7.8	91
131	Enhanced removal of roxarsone by Fe₃O₄@3D graphene nanocomposites: synergistic adsorption and mechanism. Environmental Science: Nano, 2017, 4, 2134-2143.	4.3	89
132	Surface-bound humic acid increased Pb2+ sorption on carbon nanotubes. Environmental Pollution, 2012, 167, 138-147.	7.5	88
133	Terrestrial Trophic Transfer of Bulk and Nanoparticle La₂O₃ Does Not Depend on Particle Size. Environmental Science & Technology, 2015, 49, 11866-11874.	10.0	88
134	Engineered nanomaterials in the environment: Are they safe?. Critical Reviews in Environmental Science and Technology, 2021, 51, 1443-1478.	12.8	88
135	Colloidal Stability of Al₂O₃ Nanoparticles as Affected by Coating of Structurally Different Humic Acids. Langmuir, 2010, 26, 873-879.	3.5	87
136	Influence of Biochar on Nitrogen Fractions in a Coastal Plain Soil. Journal of Environmental Quality, 2012, 41, 1087-1095.	2.0	87
137	Growth and enzymatic activity of maize (Zea maysL.) plant: Solution culture test for copper dioxide nano particles. Journal of Plant Nutrition, 2016, 39, 99-115.	1.9	87
138	Increased Adsorption of Sulfamethoxazole on Suspended Carbon Nanotubes by Dissolved Humic Acid. Environmental Science & Technology, 2013, 47, 7722-7728.	10.0	85
139	Role of Structure and Microporosity in Phenanthrene Sorption by Natural and Engineered Organic Matter. Environmental Science & Technology, 2014, 48, 11227-11234.	10.0	85
140	Comparison between Soil- and Biochar-Derived Humic Acids: Composition, Conformation, and Phenanthrene Sorption. Environmental Science & Technology, 2018, 52, 1880-1888.	10.0	85
141	Multiple Method Analysis of TiO₂ Nanoparticle Uptake in Rice (Oryza sativa L.) Plants. Environmental Science & Technology, 2017, 51, 10615-10623.	10.0	84
142	Wrinkle- and Edge-Adsorption of Aromatic Compounds on Graphene Oxide as Revealed by Atomic Force Microscopy, Molecular Dynamics Simulation, and Density Functional Theory. Environmental Science & Technology, 2018, 52, 7689-7697.	10.0	84
143	Carotenoid and superoxide dismutase are the most effective antioxidants participating in ROS scavenging in phenanthrene accumulated wheat leaf. Chemosphere, 2018, 197, 513-525.	8.2	83
144	Sorption of apolar and polar organic contaminants by waste tire rubber and its chars in single- and bi-solute systems. Environmental Pollution, 2011, 159, 850-857.	7.5	82

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145	Influences of ambient air PM2.5 concentration and meteorological condition on the indoor PM2.5 concentrations in a residential apartment in Beijing using a new approach. Environmental Pollution, 2015, 205, 307-314.	7.5	82
146	Uptake, Distribution, and Transformation of CuO NPs in a Floating Plant Eichhornia crassipes and Related Stomatal Responses. Environmental Science & Technology, 2017, 51, 7686-7695.	10.0	82
147	Metal oxide nanoparticles alter peanut (Arachis hypogaea L.) physiological response and reduce nutritional quality: a life cycle study. Environmental Science: Nano, 2018, 5, 2088-2102.	4.3	82
148	Steam disinfection releases micro(nano)plastics from silicone-rubber baby teats as examined by optical photothermal infrared microspectroscopy. Nature Nanotechnology, 2022, 17, 76-85.	31.5	82
149	Response difference of transgenic and conventional rice (Oryza sativa) to nanoparticles (Î³Fe2O3). Environmental Science and Pollution Research, 2015, 22, 17716-17723.	5.3	81
150	Interaction mechanisms of antibiotic sulfamethoxazole with various graphene-based materials and multiwall carbon nanotubes and the effect of humic acid in water. Carbon, 2017, 114, 671-678.	10.3	81
151	Engineered nanomaterials suppress Turnip mosaic virus infection in tobacco (Nicotiana) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	4.3	81
152	Bacterial toxicity of exfoliated black phosphorus nanosheets. Ecotoxicology and Environmental Safety, 2018, 161, 507-514.	6.0	81
153	Nanotechnology as a new sustainable approach for controlling crop diseases and increasing agricultural production. Journal of Experimental Botany, 2020, 71, 507-519.	4.8	81
154	Impact of De-Ashing Humic Acid and Humin on Organic Matter Structural Properties and Sorption Mechanisms of Phenanthrene. Environmental Science & Technology, 2011, 45, 3996-4002.	10.0	80
155	Effect of natural organic matter on aggregation behavior of C60 fullerene in water. Journal of Colloid and Interface Science, 2012, 374, 111-117.	9.4	79
156	Nano-cerium oxide functionalized biochar for phosphate retention: preparation, optimization and rice paddy application. Chemosphere, 2017, 185, 816-825.	8.2	78
157	Part IVâ€"sorption of hydrophobic organic contaminants. Environmental Science and Pollution Research, 2008, 15, 554-564.	5.3	76
158	Selective and Fast Adsorption of Perfluorooctanesulfonate from Wastewater by Magnetic Fluorinated Vermiculite. Environmental Science & Technology, 2017, 51, 8027-8035.	10.0	76
159	Theoretical insight into the adsorption of aromatic compounds on graphene oxide. Environmental Science: Nano, 2018, 5, 2357-2367.	4.3	76
160	Engineered nanomaterials inhibit Podosphaera pannosa infection on rose leaves by regulating phytohormones. Environmental Research, 2019, 170, 1-6.	7.5	76
161	Degradation of Tetrabromobisphenol A by Sulfidated Nanoscale Zerovalent Iron in a Dynamic Two-Step Anoxic/Oxic Process. Environmental Science & Technology, 2019, 53, 8105-8114.	10.0	75
162	Properties of the plant- and manure-derived biochars and their sorption of dibutyl phthalate and phenanthrene. Scientific Reports, 2014, 4, 5295.	3.3	73

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163	CeO₂ Nanoparticles Regulate the Propagation of Antibiotic Resistance Genes by Altering Cellular Contact and Plasmid Transfer. Environmental Science & Technology, 2020, 54, 10012-10021.	10.0	73
164	Effect of biochar-derived dissolved organic matter on adsorption of sulfamethoxazole and chloramphenicol. Journal of Hazardous Materials, 2020, 396, 122598.	12.4	73
165	Effect of co-existing kaolinite and goethite on the aggregation of graphene oxide in the aquatic environment. Water Research, 2016, 102, 313-320.	11.3	72
166	New Insights into Black Carbon Nanoparticle-Induced Dispersibility of Goethite Colloids and Configuration-Dependent Sorption for Phenanthrene. Environmental Science & Technology, 2019, 53, 661-670.	10.0	71
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