

Baoshan Xing

List of Publications by Year in descending order

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562
papers

44,069
citations

2091

103
h-index

4217

180
g-index

569
all docs

569
docs citations

569
times ranked

33477
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow field-flow fractionation hyphenated with inductively coupled plasma mass spectrometry: a robust technique for characterization of engineered elemental metal nanoparticles in the environment. <i>Applied Spectroscopy Reviews</i> , 2023, 58, 110-131.	3.4	11
2	Photocatalytic strategy to mitigate microplastic pollution in aquatic environments: Promising catalysts, efficiencies, mechanisms, and ecological risks. <i>Critical Reviews in Environmental Science and Technology</i> , 2023, 53, 504-526.	6.6	16
3	Antibiotic resistance in agricultural soils: Source, fate, mechanism and attenuation strategy. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 847-889.	6.6	49
4	Presence of microplastics alone and co-existence with hydrochar unexpectedly mitigate ammonia volatilization from rice paddy soil and affect structure of soil microbiome. <i>Journal of Hazardous Materials</i> , 2022, 422, 126831.	6.5	36
5	Adsorption and catalytic degradation of preservative parabens by graphene-family nanomaterials. <i>Science of the Total Environment</i> , 2022, 806, 150520.	3.9	6
6	Weathered Microplastics Induce Silver Nanoparticle Formation. <i>Environmental Science and Technology Letters</i> , 2022, 9, 179-185.	3.9	14
7	Production and characterization of hydrochars and their application in soil improvement and environmental remediation. <i>Chemical Engineering Journal</i> , 2022, 430, 133142.	6.6	71
8	Characteristics of algae-derived biochars and their sorption and remediation performance for sulfamethoxazole in marine environment. <i>Chemical Engineering Journal</i> , 2022, 430, 133092.	6.6	38
9	Foliar carbon dot amendment modulates carbohydrate metabolism, rhizospheric properties and drought tolerance in maize seedling. <i>Science of the Total Environment</i> , 2022, 809, 151105.	3.9	38
10	Secondary PVC microplastics are more toxic than primary PVC microplastics to <i>Oryzias melastigma</i> embryos. <i>Journal of Hazardous Materials</i> , 2022, 424, 127421.	6.5	40
11	Molecular transformation of dissolved organic carbon of rhizosphere soil induced by flooding and copper pollution. <i>Geoderma</i> , 2022, 407, 115563.	2.3	6
12	Effects of copper oxide nanoparticles on <i>Salix</i> growth, soil enzyme activity and microbial community composition in a wetland mesocosm. <i>Journal of Hazardous Materials</i> , 2022, 424, 127676.	6.5	19
13	Identification of naturally weathering microplastics and their interactions with ion dyes in aquatic environments. <i>Marine Pollution Bulletin</i> , 2022, 174, 113186.	2.3	7
14	Influence of different types of nanomaterials on soil enzyme activity: A global meta-analysis. <i>Nano Today</i> , 2022, 42, 101345.	6.2	23
15	Selenite capture by MIL-101 (Fe) through Fe O Se bonds at free coordination Fe sites. <i>Journal of Hazardous Materials</i> , 2022, 424, 127715.	6.5	17
16	Exploration of defense and tolerance mechanisms in dominant species of mining area - <i>Trifolium pratense</i> L. upon exposure to silver. <i>Science of the Total Environment</i> , 2022, 811, 151380.	3.9	1
17	Potential toxicity of nanoplastics to fish and aquatic invertebrates: Current understanding, mechanistic interpretation, and meta-analysis. <i>Journal of Hazardous Materials</i> , 2022, 427, 127870.	6.5	28
18	Functional Biochar and Its Balanced Design. <i>ACS Environmental Au</i> , 2022, 2, 115-127.	3.3	37

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19	Adsorption and desorption of antiviral drugs (ritonavir and lopinavir) on sewage sludges as a potential environmental risk. <i>Journal of Hazardous Materials</i> , 2022, 425, 127901.	6.5	20
20	Steam disinfection releases micro(nano)plastics from silicone-rubber baby teats as examined by optical photothermal infrared microspectroscopy. <i>Nature Nanotechnology</i> , 2022, 17, 76-85.	15.6	82
21	Physiological responses of pumpkin to zinc oxide quantum dots and nanoparticles. <i>Environmental Pollution</i> , 2022, 296, 118723.	3.7	9
22	Stabilization of Pb, Cd, and Zn in soil by modified-zeolite: Mechanisms and evaluation of effectiveness. <i>Science of the Total Environment</i> , 2022, 814, 152746.	3.9	33
23	Inter-molecular interactions of phthalic acid esters and multi-stage sorption revealed by experimental investigations and computation simulations. <i>Chemical Engineering Journal</i> , 2022, 431, 134018.	6.6	10
24	Physiological and proteomic analyses reveal the effect of CeO ₂ nanoparticles on strawberry reproductive system and fruit quality. <i>Science of the Total Environment</i> , 2022, 814, 152494.	3.9	14
25	Heteroaggregation between graphene oxide and titanium dioxide particles of different shapes in aqueous phase. <i>Journal of Hazardous Materials</i> , 2022, 428, 128146.	6.5	2
26	Foliar Application with Iron Oxide Nanomaterials Stimulate Nitrogen Fixation, Yield, and Nutritional Quality of Soybean. <i>ACS Nano</i> , 2022, 16, 1170-1181.	7.3	56
27	Stabilization and remediation of heavy metal-contaminated soils in China: insights from a decade-long national survey. <i>Environmental Science and Pollution Research</i> , 2022, 29, 39077-39087.	2.7	10
28	Mechanisms of growth-promotion and Se-enrichment in <i>Brassica chinensis</i> L. by selenium nanomaterials: beneficial rhizosphere microorganisms, nutrient availability, and photosynthesis. <i>Environmental Science: Nano</i> , 2022, 9, 302-312.	2.2	18
29	N self-doped hierarchically porous carbon derived from biomass as an efficient adsorbent for the removal of tetracycline antibiotics. <i>Science of the Total Environment</i> , 2022, 822, 153567.	3.9	36
30	Foliar-applied cerium oxide nanomaterials improve maize yield under salinity stress: Reactive oxygen species homeostasis and rhizobacteria regulation. <i>Environmental Pollution</i> , 2022, 299, 118900.	3.7	35
31	Synergy between cobalt and nickel on NiCo ₂ O ₄ nanosheets promotes peroxydisulfate activation for efficient norfloxacin degradation. <i>Applied Catalysis B: Environmental</i> , 2022, 306, 121091.	10.8	148
32	Insight into the significant contribution of intrinsic defects of carbon-based materials for the efficient removal of tetracycline antibiotics. <i>Chemical Engineering Journal</i> , 2022, 435, 134822.	6.6	33
33	Multimomics understanding of improved quality in cherry radish (<i>Raphanus sativus</i> L. var. <i>radculus</i>) Tj ETQq1 1 0.784314 rgBT /Overloc 153712.	3.9	27
34	Important Role of Concave Surfaces in Deposition of Colloids under Favorable Conditions as Revealed by Microscale Visualization. <i>Environmental Science & Technology</i> , 2022, 56, 4121-4131.	4.6	7
35	Key knowledge gaps for One Health approach to mitigate nanoplastic risks. , 2022, 1, 11-22.		56
36	Antibiotic Chlortetracycline Causes Transgenerational Immunosuppression via NF- κ B. <i>Environmental Science & Technology</i> , 2022, 56, 4251-4261.	4.6	23

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37	Molecular Mechanisms of Early Flowering in Tomatoes Induced by Manganese Ferrite (MnFe ₂ O ₄) Nanomaterials. ACS Nano, 2022, 16, 5636-5646.	7.3	26
38	Attachment of positively and negatively charged submicron polystyrene plastics on nine typical soils. Journal of Hazardous Materials, 2022, 431, 128566.	6.5	21
39	Environmental risks of disposable face masks during the pandemic of COVID-19: Challenges and management. Science of the Total Environment, 2022, 825, 153880.	3.9	24
40	Biochar stability and impact on soil organic carbon mineralization depend on biochar processing, aging and soil clay content. Soil Biology and Biochemistry, 2022, 169, 108657.	4.2	60
41	The role of nitrate in simultaneous removal of nitrate and trichloroethylene by sulfidated zero-valent Iron. Science of the Total Environment, 2022, 829, 154304.	3.9	6
42	Advances and challenges of broadband solar absorbers for efficient solar steam generation. Environmental Science: Nano, 2022, 9, 2264-2296.	2.2	20
43	Ring defects-rich and pyridinic N-doped graphene aerogel as floating adsorbent for efficient removal of tetracycline: Evidence from NEXAFS measurements and theoretical calculations. Journal of Hazardous Materials, 2022, 435, 128940.	6.5	14
44	Triiron Tetrairon Phosphate (Fe ₇ (PO ₄) ₆) Nanomaterials Enhanced Flavonoid Accumulation in Tomato Fruits. Nanomaterials, 2022, 12, 1341.	1.9	5
45	Nano-biochar modulates the formation of iron plaque through facilitating iron-involved redox reactions on aquatic plant root surfaces. Environmental Science: Nano, 2022, 9, 1974-1985.	2.2	4
46	Interaction and combined toxicity of microplastics and per- and polyfluoroalkyl substances in aquatic environment. Frontiers of Environmental Science and Engineering, 2022, 16, .	3.3	23
47	Nanotechnology-enabled biofortification strategies for micronutrients enrichment of food crops: Current understanding and future scope. NanoImpact, 2022, 26, 100407.	2.4	18
48	Direct toxicity of environmentally persistent free radicals to nematode Caenorhabditis elegans after excluding the concomitant chemicals. Science of the Total Environment, 2022, 839, 156226.	3.9	7
49	Effect of root exudates on the release, surface property, colloidal stability, and phytotoxicity of dissolved black carbon. Ecotoxicology and Environmental Safety, 2022, 239, 113687.	2.9	2
50	Efficient Disposal of the Aqueous Products of Wet Organic Waste Hydrothermal Carbonization by Paddy Constructed Wetlands. ACS ES&T Engineering, 2022, 2, 1651-1664.	3.7	11
51	Selenium content and nutritional quality of Brassica chinensis L enhanced by selenium engineered nanomaterials: The role of surface charge. Environmental Pollution, 2022, 308, 119582.	3.7	9
52	Photodegradation of pyrogenic dissolved organic matter increases bioavailability: Novel insight into bioalteration, microbial community succession, and C and N dynamics. Chemical Geology, 2022, 605, 120964.	1.4	13
53	Simultaneous exposure of wheat (Triticum aestivum L.) to CuO and S nanoparticles alleviates toxicity by reducing Cu accumulation and modulating antioxidant response. Science of the Total Environment, 2022, 839, 156285.	3.9	8
54	Generation of environmentally persistent free radicals on faceted TiO ₂ in an ambient environment: roles of crystalline surface structures. Environmental Science: Nano, 2022, 9, 2521-2533.	2.2	2

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55	Novel Insights into the Impact of Nano-Biochar on Composition and Structural Transformation of Mineral/Nano-Biochar Heteroaggregates in the Presence of Root Exudates. <i>Environmental Science & Technology</i> , 2022, 56, 9816-9825.	4.6	13
56	Unique Interaction between Layered Black Phosphorus and Nitrogen Dioxide. <i>Nanomaterials</i> , 2022, 12, 2011.	1.9	4
57	Biochar mitigates allelopathy through regulating allelochemical generation from plants and accumulation in soil. , 2022, 1, .		15
58	Direct Spectroscopic Evidence for Charge-Assisted Hydrogen-Bond Formation between Ionizable Organic Chemicals and Carbonaceous Materials. <i>Environmental Science & Technology</i> , 2022, 56, 9356-9366.	4.6	19
59	Tracking microplastics biodegradation through CO ₂ emission: Role of photoaging and mineral addition. <i>Journal of Hazardous Materials</i> , 2022, 439, 129615.	6.5	17
60	Therapeutic Delivery of Nanoscale Sulfur to Suppress Disease in Tomatoes: In Vitro Imaging and Orthogonal Mechanistic Investigation. <i>ACS Nano</i> , 2022, 16, 11204-11217.	7.3	28
61	Soil structures and immobilization of typical contaminants in soils in response to diverse microplastics. <i>Journal of Hazardous Materials</i> , 2022, 438, 129555.	6.5	20
62	Ultrathin porous carbon nanosheet as an efficient adsorbent for the removal of bisphenol A: The overlooked role of topological defects. <i>Chemosphere</i> , 2022, 306, 135549.	4.2	10
63	Revisit the adsorption of aromatic compounds on graphene oxide: Roles of oxidized debris. <i>Chemical Engineering Journal</i> , 2022, 450, 137996.	6.6	5
64	Engineered nanomaterials in the environment: Are they safe?. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 1443-1478.	6.6	88
65	New insight into the photo-transformation mechanisms of graphene oxide under UV-A, UV-B and UV-C lights. <i>Journal of Hazardous Materials</i> , 2021, 403, 123683.	6.5	27
66	CuO nanoparticles doping recovered the photocatalytic antialgal activity of graphitic carbon nitride. <i>Journal of Hazardous Materials</i> , 2021, 403, 123621.	6.5	35
67	Adsorption of Pb(II) and Cd(II) by magnetic activated carbon and its mechanism. <i>Science of the Total Environment</i> , 2021, 757, 143910.	3.9	195
68	A flexible and salt-rejecting electrospun film-based solar evaporator for economic, stable and efficient solar desalination and wastewater treatment. <i>Chemosphere</i> , 2021, 267, 128916.	4.2	38
69	Mechanistic understanding of highly selective adsorption of bisphenols on microporous-dominated nitrogen-doped framework carbon. <i>Science of the Total Environment</i> , 2021, 762, 143115.	3.9	25
70	Nano-black carbon (biochar) released from pyrogenic carbonaceous matter as a super suspending agent in water/soil environments. <i>Biochar</i> , 2021, 3, 1-3.	6.2	12
71	Insights into the molecular transformation in the dissolved organic compounds of agro-waste-hydrochars by microbial-aging using electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Bioresource Technology</i> , 2021, 320, 124411.	4.8	15
72	The exposed hematite surface and the generation of environmentally persistent free radicals during catechol degradation. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 109-116.	1.7	1

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73	Physicochemical properties of aged hydrochar in a rice-wheat rotation system: A 16-month observation. <i>Environmental Pollution</i> , 2021, 272, 116037.	3.7	18
74	Light-driven inactivation of harmful algae <i>Microcystis aeruginosa</i> and degradation of microcystin by oxygen-doped carbon nitride nanosheets. <i>Chemical Engineering Journal</i> , 2021, 417, 128094.	6.6	16
75	In situ prepared algae-supported iron sulfide to remove hexavalent chromium. <i>Environmental Pollution</i> , 2021, 274, 115831.	3.7	6
76	Environmental source, fate, and toxicity of microplastics. <i>Journal of Hazardous Materials</i> , 2021, 407, 124357.	6.5	414
77	Environmental life cycle assessment of wheat production using chemical fertilizer, manure compost, and biochar-amended manure compost strategies. <i>Science of the Total Environment</i> , 2021, 760, 143342.	3.9	69
78	Rationales Design von Nanogelen zur Überwindung biologischer Barrieren auf verschiedenen Verabreichungswegen. <i>Angewandte Chemie</i> , 2021, 133, 14884-14903.	1.6	6
79	Rational Design of Nanogels for Overcoming the Biological Barriers in Various Administration Routes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14760-14778.	7.2	44
80	Food-grade titanium dioxide particles decrease the bioaccessibility of iron released from spinach leaves in simulated human gastrointestinal tract. <i>Environmental Science: Nano</i> , 2021, 8, 1269-1282.	2.2	2
81	Enhanced degradation of norfloxacin by Ce-mediated Fe-MIL-101: catalytic mechanism, degradation pathways, and potential applications in wastewater treatment. <i>Environmental Science: Nano</i> , 2021, 8, 2347-2359.	2.2	26
82	Soil nutrient and nematode community changes in response to hardwood charcoal application. <i>Communications in Soil Science and Plant Analysis</i> , 2021, 52, 917-925.	0.6	5
83	New insight into naturally formed nanosilver particles: role of plant root exudates. <i>Environmental Science: Nano</i> , 2021, 8, 1580-1592.	2.2	6
84	Transfer and toxicity of silver nanoparticles in the food chain. <i>Environmental Science: Nano</i> , 2021, 8, 1519-1535.	2.2	32
85	Role of NOM-hematite nanoparticle complexes and organic and inorganic cations in the coherence of silica and clay particles: evaluation based on nanoscale forces and molecular self-assembly. <i>Environmental Science: Nano</i> , 2021, 8, 822-836.	2.2	2
86	Food-Grade Titanium Dioxide Particles Decreased the Bioaccessibility of Vitamin D ₃ in the Simulated Human Gastrointestinal Tract. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 2855-2863.	2.4	6
87	Graphitic Carbon Nitride (C ₃ N ₄) Reduces Cadmium and Arsenic Phytotoxicity and Accumulation in Rice (<i>Oryza sativa</i> L.). <i>Nanomaterials</i> , 2021, 11, 839.	1.9	13
88	Simultaneous Removal of Selenite and Selenate by Nanosized Zerovalent Iron in Anoxic Systems: The Overlooked Role of Selenite. <i>Environmental Science & Technology</i> , 2021, 55, 6299-6308.	4.6	18
89	Photochemical Transformation and Catalytic Activity of Dissolved Black Nitrogen Released from Environmental Black Carbon. <i>Environmental Science & Technology</i> , 2021, 55, 6476-6484.	4.6	23
90	Raw material of water-washed hydrochar was critical for the mitigation of GHGI in infertile paddy soil: a column experiment. <i>Biochar</i> , 2021, 3, 381-390.	6.2	13

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91	Turning Waste into Wealth: Remotely NIR Light- Controlled Precious Metal Recovery by Covalently Functionalized Black Phosphorus. <i>ChemSusChem</i> , 2021, 14, 2698-2703.	3.6	3
92	New insight into the mechanism of graphene oxide-enhanced phytotoxicity of arsenic species. <i>Journal of Hazardous Materials</i> , 2021, 410, 124959.	6.5	18
93	Effects of Phosphorus Ensembled Nanomaterials on Nutrient Uptake and Distribution in <i>Glycine max</i> L. under Simulated Precipitation. <i>Agronomy</i> , 2021, 11, 1086.	1.3	8
94	The molecular mechanisms of silica nanomaterials enhancing the rice (<i>Oryza sativa</i> L.) resistance to planthoppers (<i>Nilaparvata lugens</i> Stal). <i>Science of the Total Environment</i> , 2021, 767, 144967.	3.9	23
95	Binding Force and Site-Determined Desorption and Fragmentation of Antibiotic Resistance Genes from Metallic Nanomaterials. <i>Environmental Science & Technology</i> , 2021, 55, 9305-9316.	4.6	24
96	Emission factors of environmentally persistent free radicals in PM2.5 from rural residential solid fuels combusted in a traditional stove. <i>Science of the Total Environment</i> , 2021, 773, 145151.	3.9	16
97	Role of Nanoscale Hydroxyapatite in Disease Suppression of <i>Fusarium</i> -Infected Tomato. <i>Environmental Science & Technology</i> , 2021, 55, 13465-13476.	4.6	33
98	CuO and TiO2 particles generated more stable and stronger EPFRs in dark than under UV-irradiation. <i>Science of the Total Environment</i> , 2021, 775, 145555.	3.9	6
99	Elemental Sulfur Nanoparticles Enhance Disease Resistance in Tomatoes. <i>ACS Nano</i> , 2021, 15, 11817-11827.	7.3	60
100	Formation of silver nanoparticles in aquatic environments facilitated by algal extracellular polymeric substances: Importance of chloride ions and light. <i>Science of the Total Environment</i> , 2021, 775, 145867.	3.9	7
101	Reduction of silver ions to silver nanoparticles by biomass and biochar: Mechanisms and critical factors. <i>Science of the Total Environment</i> , 2021, 779, 146326.	3.9	15
102	Nitrogen-Doped Carbon Dots Increased Light Conversion and Electron Supply to Improve the Corn Photosystem and Yield. <i>Environmental Science & Technology</i> , 2021, 55, 12317-12325.	4.6	67
103	Copper Oxide Nanoparticle-Embedded Hydrogels Enhance Nutrient Supply and Growth of Lettuce (<i>Lactuca sativa</i>) Infected with <i>Fusarium oxysporum</i> f. sp. <i>lactucae</i> . <i>Environmental Science & Technology</i> , 2021, 55, 13432-13442.	4.6	46
104	Novel Insights into the Molecular-Level Mechanism Linking the Chemical Diversity and Copper Binding Heterogeneity of Biochar-Derived Dissolved Black Carbon and Dissolved Organic Matter. <i>Environmental Science & Technology</i> , 2021, 55, 11624-11636.	4.6	48
105	Biomass-derived N/S dual-doped hierarchically porous carbon material as effective adsorbent for the removal of bisphenol F and bisphenol S. <i>Journal of Hazardous Materials</i> , 2021, 416, 126126.	6.5	36
106	Adsorption of phenanthrene onto magnetic multi-walled carbon nanotubes (MMWCNTs) influenced by various fractions of humic acid from a single soil. <i>Chemosphere</i> , 2021, 277, 130259.	4.2	2
107	Combined effect of nano-CuO and nano-ZnO in plant-related system: From bioavailability in soil to transcriptional regulation of metal homeostasis in barley. <i>Journal of Hazardous Materials</i> , 2021, 416, 126230.	6.5	22
108	Role of Charge and Size in the Translocation and Distribution of Zinc Oxide Particles in Wheat Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11556-11564.	3.2	30

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109	Nanoscale Sulfur Improves Plant Growth and Reduces Arsenic Toxicity and Accumulation in Rice (<i>Oryza sativa</i> L.). <i>Environmental Science & Technology</i> , 2021, 55, 13490-13503.	4.6	48
110	Dual roles of biochar redox property in mediating 2,4-dichlorophenol degradation in the presence of Fe ³⁺ and persulfate. <i>Chemosphere</i> , 2021, 279, 130456.	4.2	16
111	Molecular structure and evolution characteristics of dissolved organic matter in groundwater near landfill: Implications of the identification of leachate leakage. <i>Science of the Total Environment</i> , 2021, 787, 147649.	3.9	29
112	Sulfur nanoparticles improved plant growth and reduced mercury toxicity via mitigating the oxidative stress in <i>Brassica napus</i> L.. <i>Journal of Cleaner Production</i> , 2021, 318, 128589.	4.6	47
113	Can the multi-walled carbon nanotubes be used to alleviate the phytotoxicity of herbicides in soils?. <i>Chemosphere</i> , 2021, 283, 131304.	4.2	6
114	Copper nanoclusters promote tomato (<i>Solanum lycopersicum</i> L.) yield and quality through improving photosynthesis and roots growth. <i>Environmental Pollution</i> , 2021, 289, 117912.	3.7	19
115	Environmental persistent free radicals in diesel engine exhaust particles at different altitudes and engine speeds. <i>Science of the Total Environment</i> , 2021, 796, 148963.	3.9	7
116	Environmental occurrence, fate, impact, and potential solution of tire microplastics: Similarities and differences with tire wear particles. <i>Science of the Total Environment</i> , 2021, 795, 148902.	3.9	101
117	The conductivity and redox properties of pyrolyzed carbon mediate methanogenesis in paddy soils with ethanol as substrate. <i>Science of the Total Environment</i> , 2021, 795, 148906.	3.9	10
118	Individual and combined applications of biochar and pyroligneous acid mitigate dissemination of antibiotic resistance genes in agricultural soil. <i>Science of the Total Environment</i> , 2021, 796, 148962.	3.9	37
119	<i>In situ</i> and real time investigation of foliarly applied silver nanoparticles on and in spinach leaves by surface enhanced Raman spectroscopic mapping. <i>Analytical Methods</i> , 2021, 13, 2567-2574.	1.3	4
120	Mechanisms of the Aggregation of Graphene Oxide at High pH: Roles of Oxidation Debris and Metal Adsorption. <i>Environmental Science & Technology</i> , 2021, 55, 14639-14648.	4.6	19
121	Interaction of Microplastics with Antibiotics in Aquatic Environment: Distribution, Adsorption, and Toxicity. <i>Environmental Science & Technology</i> , 2021, 55, 15579-15595.	4.6	169
122	Transcriptomics and Metabolomics Revealed the Biological Response of <i>Chlorella pyrenoidesa</i> to Single and Repeated Exposures of AgNPs at Different Concentrations. <i>Environmental Science & Technology</i> , 2021, 55, 15776-15787.	4.6	37
123	Nano-La ₂ O ₃ Induces Honeybee (<i>Apis mellifera</i>) Death and Enriches for Pathogens in Honeybee Gut Bacterial Communities. <i>Frontiers in Microbiology</i> , 2021, 12, 780943.	1.5	3
124	Nitrogen-doped carbon dots alleviate the damage from tomato bacterial wilt syndrome: systemic acquired resistance activation and reactive oxygen species scavenging. <i>Environmental Science: Nano</i> , 2021, 8, 3806-3819.	2.2	12
125	Fluorescent g-C ₃ N ₄ nanosheets enhanced photosynthetic efficiency in maize. <i>NanoImpact</i> , 2021, 24, 100363.	2.4	7
126	Competitive and/or cooperative interactions of graphene-family materials and benzo[a]pyrene with pulmonary surfactant: a computational and experimental study. <i>Particle and Fibre Toxicology</i> , 2021, 18, 46.	2.8	3

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127	Role and importance of surface heterogeneities in transport of particles in saturated porous media. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 244-329.	6.6	50
128	Citric acid enhances Ce uptake and accumulation in rice seedlings exposed to CeO ₂ nanoparticles and iron plaque attenuates the enhancement. <i>Chemosphere</i> , 2020, 240, 124897.	4.2	19
129	Biochar for Water and Soil Remediation: Production, Characterization, and Application. , 2020, , 153-196.		13
130	Nanotechnology as a new sustainable approach for controlling crop diseases and increasing agricultural production. <i>Journal of Experimental Botany</i> , 2020, 71, 507-519.	2.4	81
131	The role of biochars in sustainable crop production and soil resiliency. <i>Journal of Experimental Botany</i> , 2020, 71, 520-542.	2.4	53
132	Pyrolysis characteristics of soil humic substances using TG-FTIR-MS combined with kinetic models. <i>Science of the Total Environment</i> , 2020, 698, 134237.	3.9	62
133	Experimental and modeling study of proton and copper binding properties onto fulvic acid fractions using spectroscopic techniques combined with two-dimensional correlation analysis. <i>Environmental Pollution</i> , 2020, 256, 113465.	3.7	27
134	Characteristics and ecological risk assessment of polycyclic aromatic hydrocarbons in soil seepage water in karst terrains, southwest China. <i>Ecotoxicology and Environmental Safety</i> , 2020, 190, 110122.	2.9	16
135	Suspended state heteroaggregation kinetics of kaolinite and fullerene (nC60) in the presence of tannic acid: Effect of H ₂ O interactions. <i>Science of the Total Environment</i> , 2020, 713, 136559.	3.9	9
136	Role of nano-biochar in attenuating the allelopathic effect from <i>Imperata cylindrica</i> on rice seedlings. <i>Environmental Science: Nano</i> , 2020, 7, 116-126.	2.2	36
137	Facile passivation of black phosphorus nanosheets via silica coating for stable and efficient solar desalination. <i>Environmental Science: Nano</i> , 2020, 7, 414-423.	2.2	15
138	Comparison of different crop residue-based technologies for their energy production and air pollutant emission. <i>Science of the Total Environment</i> , 2020, 707, 136122.	3.9	21
139	Development of a comprehensive understanding of aggregation-settling movement of CeO ₂ nanoparticles in natural waters. <i>Environmental Pollution</i> , 2020, 257, 113584.	3.7	11
140	Microbial aging of hydrochar as a way to increase cadmium ion adsorption capacity: Process and mechanism. <i>Bioresource Technology</i> , 2020, 300, 122708.	4.8	52
141	Simulated photo-degradation of dissolved organic matter in lakes revealed by three-dimensional excitation-emission matrix with regional integration and parallel factor analysis. <i>Journal of Environmental Sciences</i> , 2020, 90, 310-320.	3.2	24
142	Photosynthetic response mechanisms in typical C ₃ and C ₄ plants upon La ₂ O ₃ nanoparticle exposure. <i>Environmental Science: Nano</i> , 2020, 7, 81-92.	2.2	39
143	Transfer and transformation of CeO ₂ NPs along a terrestrial trophic food chain. <i>Environmental Science: Nano</i> , 2020, 7, 588-598.	2.2	8
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