Zhengguo Song

List of Publications by Year
in descending order

92 papers	5,307 citations	76294 40 h-index	88593 70 g-index
92 all docs	92 docs citations	92 times ranked	4321 citing authors

#	Article	IF	Citations
1	Adsorption of Cu(II) and Cd(II) from aqueous solutions by ferromanganese binary oxideâ€“biochar composites. Science of the Total Environment, 2018, 615, 115-122.	3.9	281
2	Synthesis and characterization of a novel MnOx-loaded biochar and its adsorption properties for Cu2+ in aqueous solution. Chemical Engineering Journal, 2014, 242, 36-42.	6.6	277
3	Microplastic particles increase arsenic toxicity to rice seedlings. Environmental Pollution, 2020, 259, 113892.	3.7	242
4	Effects of polyethylene microplastic on the phytotoxicity of di-n-butyl phthalate in lettuce (Lactuca) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.2	193
5	Biochars derived from various crop straws: Characterization and Cd(II) removal potential. Ecotoxicology and Environmental Safety, 2014, 106, 226-231.	2.9	190
6	Arsenic removal in aqueous solution by a novel Fe-Mn modified biochar composite: Characterization and mechanism. Ecotoxicology and Environmental Safety, 2017, 144, 514-521.	2.9	190
7	Effect of microplastics and arsenic on nutrients and microorganisms in rice rhizosphere soil. Ecotoxicology and Environmental Safety, 2021, 211, 111899.	2.9	178
8	As(III) adsorption onto different-sized polystyrene microplastic particles and its mechanism. Chemosphere, 2020, 239, 124792.	4.2	177
9	Uptake of microplastics by carrots in presence of As (III): Combined toxic effects. Journal of Hazardous Materials, 2021, 411, 125055.	6.5	165
10	Mechanisms for cadmium adsorption by magnetic biochar composites in an aqueous solution. Chemosphere, 2020, 246, 125701.	4.2	159
11	Physicochemical properties of herb-residue biochar and its sorption to ionizable antibiotic sulfamethoxazole. Chemical Engineering Journal, 2014, 248, 128-134.	6.6	152
12	Effects of manganese oxide-modified biochar composites on arsenic speciation and accumulation in an indica rice (Oryza sativa L.) cultivar. Chemosphere, 2017, 168, 341-349.	4.2	136
13	Effects of a manganese oxide-modified biochar composite on adsorption of arsenic in red soil. Journal of Environmental Management, 2015, 163, 155-162.	3.8	120
14	Adsorption mechanism of As(III) on polytetrafluoroethylene particles of different size. Environmental Pollution, 2019, 254, 112950.	3.7	92
15	Mechanistic understanding of tetracycline sorption on waste tire powder and its chars as affected by Cu2+ and pH. Environmental Pollution, 2013, 178, 264-270.	3.7	90
16	Using elevated CO2 to increase the biomass of a Sorghum vulgareÃ—Sorghum vulgare var. sudanense hybrid and Trifolium pratense L. and to trigger hyperaccumulation of cesium. Journal of Hazardous Materials, 2009, 170, 861-870.	6.5	84
17	Properties and adsorption mechanism of magnetic biochar modified with molybdenum disulfide for cadmium in aqueous solution. Chemosphere, 2020, 255, 126995.	4.2	84
18	Adsorption Properties of Nano-MnO2â€“Biochar Composites for Copper in Aqueous Solution. Molecules, 2017, 22, 173.	1.7	81

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19	Enhanced As(III) removal from aqueous solution by Fe-Mn-La-impregnated biochar composites. Science of the Total Environment, 2019, 686, 1185-1193.	3.9	81
20	Impact of low molecular weight organic acids (LMWOAs) on biochar micropores and sorption properties for sulfamethoxazole. Environmental Pollution, 2016, 214, 142-148.	3.7	73
21	Contrasting effects of elevated CO2 on Cu and Cd uptake by different rice varieties grown on contaminated soils with two levels of metals: Implication for phytoextraction and food safety. Journal of Hazardous Materials, 2010, 177, 352-361.	6.5	72
22	Reduced arsenic accumulation in indica rice (Oryza sativa L.) cultivar with ferromanganese oxide impregnated biochar composites amendments. Environmental Pollution, 2017, 231, 479-486.	3.7	71
23	A Dual Role of Se on Cd Toxicity: Evidences from the Uptake of Cd and Some Essential Elements and the Growth Responses in Paddy Rice. Biological Trace Element Research, 2013, 151, 113-121.	1.9	70
24	Effects of Fe-Mn modified biochar composite treatment on the properties of As-polluted paddy soil. Environmental Pollution, 2019, 244, 600-607.	3.7	70
25	Effect of polyethylene particles on dibutyl phthalate toxicity in lettuce (Lactuca sativa L.). Journal of Hazardous Materials, 2021, 401, 123422.	6.5	70
26	Effect of polystyrene on di-butyl phthalate (DBP) bioavailability and DBP-induced phytotoxicity in lettuce. Environmental Pollution, 2021, 268, 115870.	3.7	69
27	Manganese Dioxide nanosheet suspension: A novel absorbent for Cadmium(II) contamination in waterbody. Journal of Colloid and Interface Science, 2015, 456, 108-115.	5.0	67
28	Efficient oxidation and adsorption of As(III) and As(V) in water using a Fenton-like reagent, (ferrihydrite)-loaded biochar. Science of the Total Environment, 2020, 715, 136957.	3.9	63
29	A novel mechanism study of microplastic and As co-contamination on indica rice (Oryza sativa L.). Journal of Hazardous Materials, 2022, 421, 126694.	6.5	61
30	Chelator complexes enhanced Amaranthus hypochondriacus L. phytoremediation efficiency in Cd-contaminated soils. Chemosphere, 2019, 237, 124480.	4.2	60
31	Polystyrene particles combined with di-butyl phthalate cause significant decrease in photosynthesis and red lettuce quality. Environmental Pollution, 2021, 278, 116871.	3.7	58
32	Removal mechanism of di-n-butyl phthalate and oxytetracycline from aqueous solutions by nano-manganese dioxide modified biochar. Environmental Science and Pollution Research, 2018, 25, 7796-7807.	2.7	56
33	Catalytic wet peroxide oxidation of 4-chlorophenol over Al-Fe-, Al-Cu-, and Al-Fe-Cu-pillared clays: Sensitivity, kinetics and mechanism. Applied Clay Science, 2014, 95, 275-283.	2.6	54
34	Reduction of arsenic toxicity in two rice cultivar seedlings by different nanoparticles. Ecotoxicology and Environmental Safety, 2018, 159, 261-271.	2.9	54
35	Effect of Feâ€"Mnâ€"Ce modified biochar composite on microbial diversity and properties of arsenic-contaminated paddy soils. Chemosphere, 2020, 250, 126249.	4.2	52
36	Supplementation with ferromanganese oxideâ€"impregnated biochar composite reduces cadmium uptake by indica rice (Oryza sativa L.). Journal of Cleaner Production, 2018, 184, 1052-1059.	4.6	50

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37	Feâ€“Mnâ€“Ce oxide-modified biochar composites as efficient adsorbents for removing As(III) from water: adsorption performance and mechanisms. Environmental Science and Pollution Research, 2019, 26, 17373-17382.	2.7	48
38	Field evaluation of in situ remediation of Cd-contaminated soil using four additives, two foliar fertilisers and two varieties of pakchoi. Journal of Environmental Management, 2013, 124, 17-24.	3.8	45
39	Effects of graphene oxide on cadmium uptake and photosynthesis performance in wheat seedlings. Ecotoxicology and Environmental Safety, 2019, 173, 165-173.	2.9	45
40	The mechanism of polystyrene microplastics to affect arsenic volatilization in arsenic-contaminated paddy soils. Journal of Hazardous Materials, 2020, 398, 122896.	6.5	45
41	Effects of biodegradable chelator combination on potentially toxic metals leaching efficiency in agricultural soils. Ecotoxicology and Environmental Safety, 2019, 182, 109399.	2.9	42
42	Synthesis and adsorption of Fe Mn La-impregnated biochar composite as an adsorbent for As(III) removal from aqueous solutions. Environmental Pollution, 2019, 247, 128-135.	3.7	42
43	Growth and cesium uptake responses of Phytolacca americana Linn. and Amaranthus cruentus L. grown on cesium contaminated soil to elevated CO2 or inoculation with a plant growth promoting rhizobacterium Burkholderia sp. D54, or in combination. Journal of Hazardous Materials, 2011, 198, 188-197.	6.5	41
44	Effects of foliar application of graphene oxide on cadmium uptake by lettuce. Journal of Hazardous Materials, 2020, 398, 122859.	6.5	41
45	Oxidative stress and DNA damage in zebrafish liver due to hydroxyapatite nanoparticles-loaded cadmium. Chemosphere, 2018, 202, 498-505.	4.2	40
46	Accumulation and metabolism of di(n-butyl) phthalate (DBP) and di(2-ethylhexyl) phthalate (DEHP) in mature wheat tissues and their effects on detoxification and the antioxidant system in grain. Science of the Total Environment, 2019, 697, 133981.	3.9	40
47	Foliar graphene oxide treatment increases photosynthetic capacity and reduces oxidative stress in cadmium-stressed lettuce. Plant Physiology and Biochemistry, 2020, 154, 287-294.	2.8	40
48	Effects of microplastic on arsenic accumulation in Chlamydomonas reinhardtii in a freshwater environment. Journal of Hazardous Materials, 2021, 405, 124232.	6.5	39
49	Photosynthetic and antioxidant response of wheat to di(2-ethylhexyl) phthalate (DEHP) contamination in the soil. Chemosphere, 2018, 209, 258-267.	4.2	38
50	Effect of dibutyl phthalate on microbial function diversity and enzyme activity in wheat rhizosphere and non-rhizosphere soils. Environmental Pollution, 2020, 265, 114800.	3.7	36
51	Determination and characterization of cysteine, glutathione and phytochelatins (PC2â€“6) in Lolium perenne L. exposed to Cd stress under ambient and elevated carbon dioxide using HPLC with fluorescence detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 1717-1724.	1.2	32
52	Growth, gas exchange, root morphology and cadmium uptake responses of poplars and willows grown on cadmium-contaminated soil to elevated CO2. Environmental Earth Sciences, 2012, 67, 1-13.	1.3	30
53	Effects of carbon nanotubes on growth of wheat seedlings and Cd uptake. Chemosphere, 2020, 240, 124931.	4.2	29
54	Removal and Oxidation of Arsenic from Aqueous Solution by Biochar Impregnated with Fe-Mn Oxides. Water, Air, and Soil Pollution, 2019, 230, 1.	1.1	27

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55	Responses of bacterial communities in wheat rhizospheres in different soils to di-n-butyl and di(2-ethylhexyl)phthalate contamination. Geoderma, 2020, 362, 114126.	2.3	27
56	An arsenic-contaminated field trial to assess the uptake and translocation of arsenic by genotypes of rice. Environmental Geochemistry and Health, 2013, 35, 379-390.	1.8	26
57	Toxicity of cadmium to wheat seedling roots in the presence of graphene oxide. Chemosphere, 2019, 233, 9-16.	4.2	24
58	Transcriptome analysis of the effects of Cd and nanomaterial-loaded Cd on the liver in zebrafish. Ecotoxicology and Environmental Safety, 2018, 164, 530-539.	2.9	23
59	Metabolism and distribution of dibutyl phthalate in wheat grown on different soil types. Chemosphere, 2019, 236, 124293.	4.2	21
60	Effects of polystyrene nanoplastics on lead toxicity in dandelion seedlings. Environmental Pollution, 2022, 306, 119349.	3.7	21
61	Arsenic volatilization in flooded paddy soil by the addition of Fe-Mn-modified biochar composites. Science of the Total Environment, 2019, 674, 327-335.	3.9	20
62	Mechanisms of trehalose-mediated mitigation of Cd toxicity in rice seedlings. Journal of Cleaner Production, 2020, 267, 121982.	4.6	20
63	Mechanism of novel MoS2-modified biochar composites for removal of cadmium (II) from aqueous solutions. Environmental Science and Pollution Research, 2021, 28, 34979-34989.	2.7	20
64	Toxic effect of cadmium adsorbed by different sizes of nano-hydroxyapatite on the growth of rice seedlings. Environmental Toxicology and Pharmacology, 2017, 52, 1-7.	2.0	19
65	Effects of di-n-butyl phthalate on rhizosphere and non-rhizosphere soil microbial communities at different growing stages of wheat. Ecotoxicology and Environmental Safety, 2019, 174, 658-666.	2.9	19
66	Physiological responses of wheat planted in fluvo-aquic soils to di (2-ethylhexyl) and di-n-butyl phthalates. Environmental Pollution, 2019, 244, 774-782.	3.7	19
67	Efficient As(III) Removal by Novel MoS₂-Impregnated Fe-Oxideâ€“Biochar Composites: Characterization and Mechanisms. ACS Omega, 2020, 5, 13224-13235.	1.6	19
68	Effects of Fe-Mn-Ce oxideâ€“modified biochar on As accumulation, morphology, and quality of rice (Oryza sativa L.). Environmental Science and Pollution Research, 2020, 27, 18196-18207.	2.7	18
69	Increasing CO2 differentially affects essential and non-essential amino acid concentration of rice grains grown in cadmium-contaminated soils. Environmental Pollution, 2016, 216, 86-94.	3.7	17
70	Effect of nanomaterials on arsenic volatilization and extraction from flooded soils. Environmental Pollution, 2018, 239, 118-128.	3.7	17
71	Effects of Feâ€“Mn impregnated biochar on enzymatic activity and bacterial community in phthalate-polluted brown soil planted with wheat. Environmental Pollution, 2021, 284, 117179.	3.7	16
72	Preparation of Fe-Cu-kaolinite for catalytic wet peroxide oxidation of 4-chlorophenol. Environmental Science and Pollution Research, 2018, 25, 4924-4933.	2.7	15

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73	The sorbed mechanisms of engineering magnetic biochar composites on arsenic in aqueous solution. Environmental Science and Pollution Research, 2020, 27, 41361-41371.	2.7	15
74	Mitigating arsenic accumulation in rice (Oryza sativa L.) using Fe-Mn-La-impregnated biochar composites in arsenic-contaminated paddy soil. Environmental Science and Pollution Research, 2020, 27, 41446-41457.	2.7	15
75	Adsorption of arsenite to polystyrene microplastics in the presence of humus. Environmental Sciences: Processes and Impacts, 2020, 22, 2388-2397.	1.7	15
76	Effects of di-n-butyl phthalate on photosynthetic performance and oxidative damage in different growth stages of wheat in cinnamon soils. Environmental Pollution, 2019, 250, 357-365.	3.7	14
77	Feâ€“Mn oxide modified biochar decreases phthalate uptake and improves grain quality of wheat grown in phthalate-contaminated fluvo-aquic soil. Chemosphere, 2021, 270, 129428.	4.2	14
78	Elevated Atmospheric <scp>CO</scp>₂ Enhances Copper Uptake in Crops and Pasture Species Grown in Copperâ€<scp>C</scp>ontaminated Soils in a Microâ€<scp>P</scp>lot Study. Clean - Soil, Air, Water, 2014, 42, 347-354.	0.7	13
79	Synthesis and Characterization of Novel Fe-Mn-Ce Ternary Oxideâ€“Biochar Composites as Highly Efficient Adsorbents for As(III) Removal from Aqueous Solutions. Materials, 2018, 11, 2445.	1.3	13
80	Capacity and mechanism of arsenic adsorption on red soil supplemented with ferromanganese oxideâ€“biochar composites. Environmental Science and Pollution Research, 2018, 25, 20116-20124.	2.7	13
81	Effects of Fe-Mn oxide-modified biochar composite applications on phthalate esters (PAEs) accumulation in wheat grains and grain quality under PAEs-polluted brown soil. Ecotoxicology and Environmental Safety, 2021, 208, 111624.	2.9	13
82	Mechanism of As(III) removal properties of biochar-supported molybdenum-disulfide/iron-oxide system. Environmental Pollution, 2021, 287, 117600.	3.7	13
83	Characteristic of adsorption cadmium of red soil amended with a ferromanganese oxide-biochar composite. Environmental Science and Pollution Research, 2019, 26, 5155-5163.	2.7	10
84	Phytochelatin synthesis in response to elevated CO2 under cadmium stress in Lolium perenne L.. Journal of Plant Physiology, 2011, 168, 1723-1728.	1.6	9
85	Effect of Feâ€“Mnâ€“La-modified biochar composites on arsenic volatilization in flooded paddy soil. Environmental Science and Pollution Research, 2021, 28, 49889-49898.	2.7	9
86	The influence of humic and fulvic acids on polytetrafluoroethylene-adsorbed arsenic: a mechanistic study. Environmental Science and Pollution Research, 2021, 28, 64503-64515.	2.7	8
87	Effect of Mineral-Based Amendments on Rice (<i>Oryza sativa</i> L.) Growth and Cadmium Content in Plant and Polluted Soil. Environmental Engineering Science, 2017, 34, 854-860.	0.8	7
88	Response of soil characteristics to biochar and Fe-Mn oxide-modified biochar application in phthalate-contaminated fluvo-aquic soils. Ecotoxicology and Environmental Safety, 2021, 225, 112755.	2.9	7
89	Chloride ions promoted the catalytic wet peroxide oxidation of phenol over clay-based catalysts. Water Science and Technology, 2016, 73, 1025-1032.	1.2	6
90	A novel Ca/Mn-modified biochar recycles P from solution: mechanisms and phosphate efficiency. Environmental Sciences: Processes and Impacts, 2022, 24, 474-485.	1.7	4

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91	Influence of the application of Feâ€“Mnâ€“La ternary oxide-biochar composites on the properties of arsenic-polluted paddy soil. Environmental Sciences: Processes and Impacts, 2020, 22, 1045-1056.	1.7	3
92	Combined effects of carbon nanotubes and cadmium on the photosynthetic capacity and antioxidant response of wheat seedlings. Environmental Science and Pollution Research, 2021, 28, 34344-34354.	2.7	3