

Zhengguo Song

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

3,010
citations

32
h-index

52
g-index

92
ext. papers

4,153
ext. citations

7.7
avg, IF

6.16
L-index

#	Paper	IF	Citations
91	A novel mechanism study of microplastic and As co-contamination on indica rice (<i>Oryza sativa</i> L.). <i>Journal of Hazardous Materials</i> , 2022 , 421, 126694	12.8	10
90	Effects of polystyrene nanoplastics on lead toxicity in dandelion seedlings.. <i>Environmental Pollution</i> , 2022 , 306, 119349	9.3	2
89	Combined effects of carbon nanotubes and cadmium on the photosynthetic capacity and antioxidant response of wheat seedlings. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 34344-34354 ^o	5.1	5
88	Effect of microplastics and arsenic on nutrients and microorganisms in rice rhizosphere soil. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 211, 111899	7	43
87	Mechanism of novel MoS-modified biochar composites for removal of cadmium (II) from aqueous solutions. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 34979-34989	5.1	5
86	Fe-Mn oxide modified biochar decreases phthalate uptake and improves grain quality of wheat grown in phthalate-contaminated fluvo-aquic soil. <i>Chemosphere</i> , 2021 , 270, 129428	8.4	3
85	Effect of Fe-Mn-La-modified biochar composites on arsenic volatilization in flooded paddy soil. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 49889-49898	5.1	2
84	Uptake of microplastics by carrots in presence of As (III): Combined toxic effects. <i>Journal of Hazardous Materials</i> , 2021 , 411, 125055	12.8	40
83	Polystyrene particles combined with di-butyl phthalate cause significant decrease in photosynthesis and red lettuce quality. <i>Environmental Pollution</i> , 2021 , 278, 116871	9.3	17
82	The influence of humic and fulvic acids on polytetrafluoroethylene-adsorbed arsenic: a mechanistic study. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 64503-64515	5.1	1
81	Effect of polyethylene particles on dibutyl phthalate toxicity in lettuce (<i>Lactuca sativa</i> L.). <i>Journal of Hazardous Materials</i> , 2021 , 401, 123422	12.8	19
80	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. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 208, 111624	7	5
79	Effects of microplastic on arsenic accumulation in <i>Chlamydomonas reinhardtii</i> in a freshwater environment. <i>Journal of Hazardous Materials</i> , 2021 , 405, 124232	12.8	11
78	Effect of polystyrene on di-butyl phthalate (DBP) bioavailability and DBP-induced phytotoxicity in lettuce. <i>Environmental Pollution</i> , 2021 , 268, 115870	9.3	28
77	Effects of Fe-Mn impregnated biochar on enzymatic activity and bacterial community in phthalate-polluted brown soil planted with wheat. <i>Environmental Pollution</i> , 2021 , 284, 117179	9.3	2
76	Mechanism of As(III) removal properties of biochar-supported molybdenum-disulfide/iron-oxide system. <i>Environmental Pollution</i> , 2021 , 287, 117600	9.3	2
75	Response of soil characteristics to biochar and Fe-Mn oxide-modified biochar application in phthalate-contaminated fluvo-aquic soils. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 225, 112755	7	1

74	Properties and adsorption mechanism of magnetic biochar modified with molybdenum disulfide for cadmium in aqueous solution. <i>Chemosphere</i> , 2020 , 255, 126995	8.4	41
73	Influence of the application of Fe-Mn-La ternary oxide-biochar composites on the properties of arsenic-polluted paddy soil. <i>Environmental Sciences: Processes and Impacts</i> , 2020 , 22, 1045-1056	4.3	2
72	Mechanisms of trehalose-mediated mitigation of Cd toxicity in rice seedlings. <i>Journal of Cleaner Production</i> , 2020 , 267, 121982	10.3	10
71	Effects of foliar application of graphene oxide on cadmium uptake by lettuce. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122859	12.8	22
70	Efficient As(III) Removal by Novel MoS ₂ -Impregnated Fe-Oxide-Biochar Composites: Characterization and Mechanisms. <i>ACS Omega</i> , 2020 , 5, 13224-13235	3.9	10
69	Foliar graphene oxide treatment increases photosynthetic capacity and reduces oxidative stress in cadmium-stressed lettuce. <i>Plant Physiology and Biochemistry</i> , 2020 , 154, 287-294	5.4	17
68	Effects of Fe-Mn-Ce oxide-modified biochar on As accumulation, morphology, and quality of rice (<i>Oryza sativa</i> L.). <i>Environmental Science and Pollution Research</i> , 2020 , 27, 18196-18207	5.1	7
67	Effect of Fe-Mn-Ce modified biochar composite on microbial diversity and properties of arsenic-contaminated paddy soils. <i>Chemosphere</i> , 2020 , 250, 126249	8.4	22
66	Effect of dibutyl phthalate on microbial function diversity and enzyme activity in wheat rhizosphere and non-rhizosphere soils. <i>Environmental Pollution</i> , 2020 , 265, 114800	9.3	16
65	The mechanism of polystyrene microplastics to affect arsenic volatilization in arsenic-contaminated paddy soils. <i>Journal of Hazardous Materials</i> , 2020 , 398, 122896	12.8	17
64	Efficient oxidation and adsorption of As(III) and As(V) in water using a Fenton-like reagent, (ferrihydrite)-loaded biochar. <i>Science of the Total Environment</i> , 2020 , 715, 136957	10.2	29
63	Responses of bacterial communities in wheat rhizospheres in different soils to di-n-butyl and di(2-ethylhexyl)phthalate contamination. <i>Geoderma</i> , 2020 , 362, 114126	6.7	10
62	Mechanisms for cadmium adsorption by magnetic biochar composites in an aqueous solution. <i>Chemosphere</i> , 2020 , 246, 125701	8.4	82
61	Microplastic particles increase arsenic toxicity to rice seedlings. <i>Environmental Pollution</i> , 2020 , 259, 113893	9.3	82
60	The sorbed mechanisms of engineering magnetic biochar composites on arsenic in aqueous solution. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 41361-41371	5.1	5
59	Mitigating arsenic accumulation in rice (<i>Oryza sativa</i> L.) using Fe-Mn-La-impregnated biochar composites in arsenic-contaminated paddy soil. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 41446-41457	5.1	5
58	Adsorption of arsenite to polystyrene microplastics in the presence of humus. <i>Environmental Sciences: Processes and Impacts</i> , 2020 , 22, 2388-2397	4.3	3
57	Effects of carbon nanotubes on growth of wheat seedlings and Cd uptake. <i>Chemosphere</i> , 2020 , 240, 124931	4.3	21

56	As(III) adsorption onto different-sized polystyrene microplastic particles and its mechanism. <i>Chemosphere</i> , 2020 , 239, 124792	8.4	74
55	Chelator complexes enhanced <i>Amaranthus hypochondriacus</i> L. phytoremediation efficiency in Cd-contaminated soils. <i>Chemosphere</i> , 2019 , 237, 124480	8.4	32
54	Enhanced As(III) removal from aqueous solution by Fe-Mn-La-impregnated biochar composites. <i>Science of the Total Environment</i> , 2019 , 686, 1185-1193	10.2	47
53	Toxicity of cadmium to wheat seedling roots in the presence of graphene oxide. <i>Chemosphere</i> , 2019 , 233, 9-16	8.4	12
52	Removal and Oxidation of Arsenic from Aqueous Solution by Biochar Impregnated with Fe-Mn Oxides. <i>Water, Air, and Soil Pollution</i> , 2019 , 230, 1	2.6	11
51	Effects of di-n-butyl phthalate on photosynthetic performance and oxidative damage in different growth stages of wheat in cinnamon soils. <i>Environmental Pollution</i> , 2019 , 250, 357-365	9.3	4
50	Arsenic volatilization in flooded paddy soil by the addition of Fe-Mn-modified biochar composites. <i>Science of the Total Environment</i> , 2019 , 674, 327-335	10.2	16
49	Fe-Mn-Ce oxide-modified biochar composites as efficient adsorbents for removing As(III) from water: adsorption performance and mechanisms. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 17373-17382	5.1	24
48	Effects of di-n-butyl phthalate on rhizosphere and non-rhizosphere soil microbial communities at different growing stages of wheat. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 174, 658-666	7	13
47	Effects of graphene oxide on cadmium uptake and photosynthesis performance in wheat seedlings. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 173, 165-173	7	28
46	Effects of polyethylene microplastic on the phytotoxicity of di-n-butyl phthalate in lettuce (<i>Lactuca sativa</i> L. var. <i>ramosa</i> Hort). <i>Chemosphere</i> , 2019 , 237, 124482	8.4	66
45	Adsorption mechanism of As(III) on polytetrafluoroethylene particles of different size. <i>Environmental Pollution</i> , 2019 , 254, 112950	9.3	39
44	Metabolism and distribution of dibutyl phthalate in wheat grown on different soil types. <i>Chemosphere</i> , 2019 , 236, 124293	8.4	11
43	Effects of biodegradable chelator combination on potentially toxic metals leaching efficiency in agricultural soils. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 182, 109399	7	24
42	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. <i>Science of the Total Environment</i> , 2019 , 697, 133981	10.2	20
41	Characteristic of adsorption cadmium of red soil amended with a ferromanganese oxide-biochar composite. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 5155-5163	5.1	7
40	Synthesis and adsorption of FeMnLa-impregnated biochar composite as an adsorbent for As(III) removal from aqueous solutions. <i>Environmental Pollution</i> , 2019 , 247, 128-135	9.3	27
39	Physiological responses of wheat planted in fluvo-aquic soils to di (2-ethylhexyl) and di-n-butyl phthalates. <i>Environmental Pollution</i> , 2019 , 244, 774-782	9.3	15

38	Effects of Fe-Mn modified biochar composite treatment on the properties of As-polluted paddy soil. <i>Environmental Pollution</i> , 2019 , 244, 600-607	9.3	40
37	Effect of nanomaterials on arsenic volatilization and extraction from flooded soils. <i>Environmental Pollution</i> , 2018 , 239, 118-128	9.3	13
36	Removal mechanism of di-n-butyl phthalate and oxytetracycline from aqueous solutions by nano-manganese dioxide modified biochar. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 7796-7807	5.1	38
35	Preparation of Fe-Cu-kaolinite for catalytic wet peroxide oxidation of 4-chlorophenol. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 4924-4933	5.1	13
34	Supplementation with ferromanganese oxide-impregnated biochar composite reduces cadmium uptake by indica rice (<i>Oryza sativa</i> L.). <i>Journal of Cleaner Production</i> , 2018 , 184, 1052-1059	10.3	38
33	Oxidative stress and DNA damage in zebrafish liver due to hydroxyapatite nanoparticles-loaded cadmium. <i>Chemosphere</i> , 2018 , 202, 498-505	8.4	28
32	Adsorption of Cu(II) and Cd(II) from aqueous solutions by ferromanganese binary oxide-biochar composites. <i>Science of the Total Environment</i> , 2018 , 615, 115-122	10.2	195
31	Capacity and mechanism of arsenic adsorption on red soil supplemented with ferromanganese oxide-biochar composites. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 20116-20124	5.1	8
30	Transcriptome analysis of the effects of Cd and nanomaterial-loaded Cd on the liver in zebrafish. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 164, 530-539	7	15
29	Reduction of arsenic toxicity in two rice cultivar seedlings by different nanoparticles. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 159, 261-271	7	32
28	Synthesis and Characterization of Novel Fe-Mn-Ce Ternary Oxide/Biochar Composites as Highly Efficient Adsorbents for As(III) Removal from Aqueous Solutions. <i>Materials</i> , 2018 , 11,	3.5	9
27	Photosynthetic and antioxidant response of wheat to di(2-ethylhexyl) phthalate (DEHP) contamination in the soil. <i>Chemosphere</i> , 2018 , 209, 258-267	8.4	22
26	Toxic effect of cadmium adsorbed by different sizes of nano-hydroxyapatite on the growth of rice seedlings. <i>Environmental Toxicology and Pharmacology</i> , 2017 , 52, 1-7	5.8	13
25	Reduced arsenic accumulation in indica rice (<i>Oryza sativa</i> L.) cultivar with ferromanganese oxide impregnated biochar composites amendments. <i>Environmental Pollution</i> , 2017 , 231, 479-486	9.3	52
24	Arsenic removal in aqueous solution by a novel Fe-Mn modified biochar composite: Characterization and mechanism. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 144, 514-521	7	120
23	Effect of Mineral-Based Amendments on Rice (<i>Oryza sativa</i> L.) Growth and Cadmium Content in Plant and Polluted Soil. <i>Environmental Engineering Science</i> , 2017 , 34, 854-860	2	7
22	Effects of manganese oxide-modified biochar composites on arsenic speciation and accumulation in an indica rice (<i>Oryza sativa</i> L.) cultivar. <i>Chemosphere</i> , 2017 , 168, 341-349	8.4	100
21	Adsorption Properties of Nano-MnO ₂ /Biochar Composites for Copper in Aqueous Solution. <i>Molecules</i> , 2017 , 22,	4.8	51

20	Chloride ions promoted the catalytic wet peroxide oxidation of phenol over clay-based catalysts. <i>Water Science and Technology</i> , 2016 , 73, 1025-32	2.2	4
19	Increasing CO ₂ differentially affects essential and non-essential amino acid concentration of rice grains grown in cadmium-contaminated soils. <i>Environmental Pollution</i> , 2016 , 216, 86-94	9.3	11
18	Impact of low molecular weight organic acids (LMWOAs) on biochar micropores and sorption properties for sulfamethoxazole. <i>Environmental Pollution</i> , 2016 , 214, 142-148	9.3	56
17	Manganese Dioxide nanosheet suspension: A novel absorbent for Cadmium(II) contamination in waterbody. <i>Journal of Colloid and Interface Science</i> , 2015 , 456, 108-15	9.3	52
16	Effects of a manganese oxide-modified biochar composite on adsorption of arsenic in red soil. <i>Journal of Environmental Management</i> , 2015 , 163, 155-62	7.9	84
15	Synthesis and characterization of a novel MnO _x -loaded biochar and its adsorption properties for Cu ²⁺ in aqueous solution. <i>Chemical Engineering Journal</i> , 2014 , 242, 36-42	14.7	211
14	Biochars derived from various crop straws: characterization and Cd(II) removal potential. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 106, 226-31	7	146
13	Catalytic wet peroxide oxidation of 4-chlorophenol over Al-Fe-, Al-Cu-, and Al-Fe-Cu-pillared clays: Sensitivity, kinetics and mechanism. <i>Applied Clay Science</i> , 2014 , 95, 275-283	5.2	43
12	Physicochemical properties of herb-residue biochar and its sorption to ionizable antibiotic sulfamethoxazole. <i>Chemical Engineering Journal</i> , 2014 , 248, 128-134	14.7	119
11	Elevated Atmospheric CO ₂ Enhances Copper Uptake in Crops and Pasture Species Grown in Copper-Contaminated Soils in a Micro-Plot Study. <i>Clean - Soil, Air, Water</i> , 2014 , 42, 347-354	1.6	12
10	An arsenic-contaminated field trial to assess the uptake and translocation of arsenic by genotypes of rice. <i>Environmental Geochemistry and Health</i> , 2013 , 35, 379-90	4.7	23
9	Mechanistic understanding of tetracycline sorption on waste tire powder and its chars as affected by Cu(2+) and pH. <i>Environmental Pollution</i> , 2013 , 178, 264-70	9.3	72
8	Field evaluation of in situ remediation of Cd-contaminated soil using four additives, two foliar fertilisers and two varieties of pakchoi. <i>Journal of Environmental Management</i> , 2013 , 124, 17-24	7.9	37
7	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. <i>Biological Trace Element Research</i> , 2013 , 151, 113-21	4.5	56
6	Growth, gas exchange, root morphology and cadmium uptake responses of poplars and willows grown on cadmium-contaminated soil to elevated CO ₂ . <i>Environmental Earth Sciences</i> , 2012 , 67, 1-13	2.9	28
5	Phytochelatin synthesis in response to elevated CO ₂ under cadmium stress in <i>Lolium perenne</i> L. <i>Journal of Plant Physiology</i> , 2011 , 168, 1723-8	3.6	8
4	Growth and cesium uptake responses of <i>Phytolacca americana</i> Linn. and <i>Amaranthus cruentus</i> L. grown on cesium contaminated soil to elevated CO ₂ or inoculation with a plant growth promoting rhizobacterium <i>Burkholderia</i> sp. D54, or in combination. <i>Journal of Hazardous Materials</i> , 2011 , 198, 188-97	12.8	34
3	Determination and characterization of cysteine, glutathione and phytochelatin (PC ₂) in <i>Lolium perenne</i> L. exposed to Cd stress under ambient and elevated carbon dioxide using HPLC with fluorescence detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011 , 879, 1717-24	3.2	27

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| 2 | Contrasting effects of elevated CO ₂ on Cu and Cd uptake by different rice varieties grown on contaminated soils with two levels of metals: implication for phytoextraction and food safety. <i>Journal of Hazardous Materials</i> , 2010 , 177, 352-61 | 12.8 | 55 |
| 1 | Using elevated CO ₂ to increase the biomass of a <i>Sorghum vulgare</i> x <i>Sorghum vulgare</i> var. sudanense hybrid and <i>Trifolium pratense</i> L. and to trigger hyperaccumulation of cesium. <i>Journal of Hazardous Materials</i> , 2009 , 170, 861-70 | 12.8 | 76 |