

# Zhengguo Song

## List of Publications by Citations

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91  
papers

3,010  
citations

32  
h-index

52  
g-index

92  
ext. papers

4,153  
ext. citations

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avg, IF

6.16  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 91 | Synthesis and characterization of a novel MnOx-loaded biochar and its adsorption properties for Cu <sup>2+</sup> in aqueous solution. <i>Chemical Engineering Journal</i> , <b>2014</b> , 242, 36-42   | 14.7 | 211       |
| 90 | Adsorption of Cu(II) and Cd(II) from aqueous solutions by ferromanganese binary oxide-biochar composites. <i>Science of the Total Environment</i> , <b>2018</b> , 615, 115-122   | 10.2 | 195       |
| 89 | Biochars derived from various crop straws: characterization and Cd(II) removal potential. <i>Ecotoxicology and Environmental Safety</i> , <b>2014</b> , 106, 226-31  | 7    | 146       |
| 88 | Arsenic removal in aqueous solution by a novel Fe-Mn modified biochar composite: Characterization and mechanism. <i>Ecotoxicology and Environmental Safety</i> , <b>2017</b> , 144, 514-521  | 7    | 120       |
| 87 | Physicochemical properties of herb-residue biochar and its sorption to ionizable antibiotic sulfamethoxazole. <i>Chemical Engineering Journal</i> , <b>2014</b> , 248, 128-134   | 14.7 | 119       |
| 86 | 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> , <b>2017</b> , 168, 341-349  | 8.4  | 100       |
| 85 | Effects of a manganese oxide-modified biochar composite on adsorption of arsenic in red soil. <i>Journal of Environmental Management</i> , <b>2015</b> , 163, 155-62   | 7.9  | 84        |
| 84 | Mechanisms for cadmium adsorption by magnetic biochar composites in an aqueous solution. <i>Chemosphere</i> , <b>2020</b> , 246, 125701  | 8.4  | 82        |
| 83 | Microplastic particles increase arsenic toxicity to rice seedlings. <i>Environmental Pollution</i> , <b>2020</b> , 259, 113893   | 9.3  | 82        |
| 82 | Using elevated CO <sub>2</sub> 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> , <b>2009</b> , 170, 861-70 | 12.8 | 76        |
| 81 | As(III) adsorption onto different-sized polystyrene microplastic particles and its mechanism. <i>Chemosphere</i> , <b>2020</b> , 239, 124792   | 8.4  | 74        |
| 80 | Mechanistic understanding of tetracycline sorption on waste tire powder and its chars as affected by Cu(2+) and pH. <i>Environmental Pollution</i> , <b>2013</b> , 178, 264-70   | 9.3  | 72        |
| 79 | 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> , <b>2019</b> , 237, 124482   | 8.4  | 66        |
| 78 | 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> , <b>2013</b> , 151, 113-21   | 4.5  | 56        |
| 77 | Impact of low molecular weight organic acids (LMWOAs) on biochar micropores and sorption properties for sulfamethoxazole. <i>Environmental Pollution</i> , <b>2016</b> , 214, 142-148  | 9.3  | 56        |
| 76 | Contrasting effects of elevated CO <sub>2</sub> 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> , <b>2010</b> , 177, 352-61        | 12.8 | 55        |
| 75 | Manganese Dioxide nanosheet suspension: A novel absorbent for Cadmium(II) contamination in waterbody. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 456, 108-15  | 9.3  | 52        |

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|----|---|------|----|
| 74 | Reduced arsenic accumulation in indica rice ( <i>Oryza sativa</i> L.) cultivar with ferromanganese oxide impregnated biochar composites amendments. <i>Environmental Pollution</i> , <b>2017</b> , 231, 479-486   | 9.3  | 52 |
| 73 | Adsorption Properties of Nano-MnO <sub>2</sub> -Biochar Composites for Copper in Aqueous Solution. <i>Molecules</i> , <b>2017</b> , 22,   | 4.8  | 51 |
| 72 | Enhanced As(III) removal from aqueous solution by Fe-Mn-La-impregnated biochar composites. <i>Science of the Total Environment</i> , <b>2019</b> , 686, 1185-1193   | 10.2 | 47 |
| 71 | 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> , <b>2014</b> , 95, 275-283   | 5.2  | 43 |
| 70 | Effect of microplastics and arsenic on nutrients and microorganisms in rice rhizosphere soil. <i>Ecotoxicology and Environmental Safety</i> , <b>2021</b> , 211, 111899   | 7    | 43 |
| 69 | Properties and adsorption mechanism of magnetic biochar modified with molybdenum disulfide for cadmium in aqueous solution. <i>Chemosphere</i> , <b>2020</b> , 255, 126995  | 8.4  | 41 |
| 68 | Uptake of microplastics by carrots in presence of As (III): Combined toxic effects. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 411, 125055   | 12.8 | 40 |
| 67 | Effects of Fe-Mn modified biochar composite treatment on the properties of As-polluted paddy soil. <i>Environmental Pollution</i> , <b>2019</b> , 244, 600-607  | 9.3  | 40 |
| 66 | Adsorption mechanism of As(III) on polytetrafluoroethylene particles of different size. <i>Environmental Pollution</i> , <b>2019</b> , 254, 112950  | 9.3  | 39 |
| 65 | 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> , <b>2018</b> , 25, 7796-7807  | 5.1  | 38 |
| 64 | Supplementation with ferromanganese oxide-impregnated biochar composite reduces cadmium uptake by indica rice ( <i>Oryza sativa</i> L.). <i>Journal of Cleaner Production</i> , <b>2018</b> , 184, 1052-1059  | 10.3 | 38 |
| 63 | 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> , <b>2013</b> , 124, 17-24  | 7.9  | 37 |
| 62 | 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 <sub>2</sub> or inoculation with a plant growth promoting rhizobacterium <i>Burkholderia</i> sp. D54, or in combination. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 198, 188-97 | 12.8 | 34 |
| 61 | Chelator complexes enhanced <i>Amaranthus hypochondriacus</i> L. phytoremediation efficiency in Cd-contaminated soils. <i>Chemosphere</i> , <b>2019</b> , 237, 124480   | 8.4  | 32 |
| 60 | Reduction of arsenic toxicity in two rice cultivar seedlings by different nanoparticles. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 159, 261-271   | 7    | 32 |
| 59 | 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> , <b>2020</b> , 715, 136957  | 10.2 | 29 |
| 58 | Effects of graphene oxide on cadmium uptake and photosynthesis performance in wheat seedlings. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 173, 165-173   | 7    | 28 |
| 57 | Oxidative stress and DNA damage in zebrafish liver due to hydroxyapatite nanoparticles-loaded cadmium. <i>Chemosphere</i> , <b>2018</b> , 202, 498-505  | 8.4  | 28 |

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|----|--|------|----|
| 56 | Growth, gas exchange, root morphology and cadmium uptake responses of poplars and willows grown on cadmium-contaminated soil to elevated CO <sub>2</sub> . <i>Environmental Earth Sciences</i> , <b>2012</b> , 67, 1-13  | 2.9  | 28 |
| 55 | Effect of polystyrene on di-butyl phthalate (DBP) bioavailability and DBP-induced phytotoxicity in lettuce. <i>Environmental Pollution</i> , <b>2021</b> , 268, 115870   | 9.3  | 28 |
| 54 | Determination and characterization of cysteine, glutathione and phytochelatins (PCs) 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> , <b>2011</b> , 879, 1717-24 | 3.2  | 27 |
| 53 | Synthesis and adsorption of FeMnLa-impregnated biochar composite as an adsorbent for As(III) removal from aqueous solutions. <i>Environmental Pollution</i> , <b>2019</b> , 247, 128-135   | 9.3  | 27 |
| 52 | 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> , <b>2019</b> , 26, 17373-17382   | 5.1  | 24 |
| 51 | Effects of biodegradable chelator combination on potentially toxic metals leaching efficiency in agricultural soils. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 182, 109399   | 7    | 24 |
| 50 | An arsenic-contaminated field trial to assess the uptake and translocation of arsenic by genotypes of rice. <i>Environmental Geochemistry and Health</i> , <b>2013</b> , 35, 379-90  | 4.7  | 23 |
| 49 | Effects of foliar application of graphene oxide on cadmium uptake by lettuce. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 398, 122859  | 12.8 | 22 |
| 48 | Effect of Fe-Mn-Ce modified biochar composite on microbial diversity and properties of arsenic-contaminated paddy soils. <i>Chemosphere</i> , <b>2020</b> , 250, 126249  | 8.4  | 22 |
| 47 | Photosynthetic and antioxidant response of wheat to di(2-ethylhexyl) phthalate (DEHP) contamination in the soil. <i>Chemosphere</i> , <b>2018</b> , 209, 258-267   | 8.4  | 22 |
| 46 | Effects of carbon nanotubes on growth of wheat seedlings and Cd uptake. <i>Chemosphere</i> , <b>2020</b> , 240, 124831   | 8.4  | 21 |
| 45 | 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> , <b>2019</b> , 697, 133981  | 10.2 | 20 |
| 44 | Effect of polyethylene particles on dibutyl phthalate toxicity in lettuce ( <i>Lactuca sativa</i> L.). <i>Journal of Hazardous Materials</i> , <b>2021</b> , 401, 123422   | 12.8 | 19 |
| 43 | Foliar graphene oxide treatment increases photosynthetic capacity and reduces oxidative stress in cadmium-stressed lettuce. <i>Plant Physiology and Biochemistry</i> , <b>2020</b> , 154, 287-294  | 5.4  | 17 |
| 42 | The mechanism of polystyrene microplastics to affect arsenic volatilization in arsenic-contaminated paddy soils. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 398, 122896   | 12.8 | 17 |
| 41 | Polystyrene particles combined with di-butyl phthalate cause significant decrease in photosynthesis and red lettuce quality. <i>Environmental Pollution</i> , <b>2021</b> , 278, 116871  | 9.3  | 17 |
| 40 | Arsenic volatilization in flooded paddy soil by the addition of Fe-Mn-modified biochar composites. <i>Science of the Total Environment</i> , <b>2019</b> , 674, 327-335  | 10.2 | 16 |
| 39 | Effect of dibutyl phthalate on microbial function diversity and enzyme activity in wheat rhizosphere and non-rhizosphere soils. <i>Environmental Pollution</i> , <b>2020</b> , 265, 114800   | 9.3  | 16 |

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| 38 | Transcriptome analysis of the effects of Cd and nanomaterial-loaded Cd on the liver in zebrafish. <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 164, 530-539   | 7    | 15 |
| 37 | Physiological responses of wheat planted in fluvo-aquic soils to di (2-ethylhexyl) and di-n-butyl phthalates. <i>Environmental Pollution</i> , <b>2019</b> , 244, 774-782  | 9.3  | 15 |
| 36 | Toxic effect of cadmium adsorbed by different sizes of nano-hydroxyapatite on the growth of rice seedlings. <i>Environmental Toxicology and Pharmacology</i> , <b>2017</b> , 52, 1-7                                 | 5.8  | 13 |
| 35 | 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> , <b>2019</b> , 174, 658-666       | 7    | 13 |
| 34 | Effect of nanomaterials on arsenic volatilization and extraction from flooded soils. <i>Environmental Pollution</i> , <b>2018</b> , 239, 118-128   | 9.3  | 13 |
| 33 | Preparation of Fe-Cu-kaolinite for catalytic wet peroxide oxidation of 4-chlorophenol. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 4924-4933   | 5.1  | 13 |
| 32 | Toxicity of cadmium to wheat seedling roots in the presence of graphene oxide. <i>Chemosphere</i> , <b>2019</b> , 233, 9-16  | 8.4  | 12 |
| 31 | Elevated Atmospheric CO <sub>2</sub> Enhances Copper Uptake in Crops and Pasture Species Grown in Copper-Contaminated Soils in a Micro-Plot Study. <i>Clean - Soil, Air, Water</i> , <b>2014</b> , 42, 347-354       | 1.6  | 12 |
| 30 | Removal and Oxidation of Arsenic from Aqueous Solution by Biochar Impregnated with Fe-Mn Oxides. <i>Water, Air, and Soil Pollution</i> , <b>2019</b> , 230, 1  | 2.6  | 11 |
| 29 | Metabolism and distribution of dibutyl phthalate in wheat grown on different soil types. <i>Chemosphere</i> , <b>2019</b> , 236, 124293  | 8.4  | 11 |
| 28 | Increasing CO <sub>2</sub> differentially affects essential and non-essential amino acid concentration of rice grains grown in cadmium-contaminated soils. <i>Environmental Pollution</i> , <b>2016</b> , 216, 86-94 | 9.3  | 11 |
| 27 | Effects of microplastic on arsenic accumulation in <i>Chlamydomonas reinhardtii</i> in a freshwater environment. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 124232                                   | 12.8 | 11 |
| 26 | Mechanisms of trehalose-mediated mitigation of Cd toxicity in rice seedlings. <i>Journal of Cleaner Production</i> , <b>2020</b> , 267, 121982   | 10.3 | 10 |
| 25 | Efficient As(III) Removal by Novel MoS <sub>2</sub> -Impregnated Fe-Oxide-Biochar Composites: Characterization and Mechanisms. <i>ACS Omega</i> , <b>2020</b> , 5, 13224-13235                                       | 3.9  | 10 |
| 24 | Responses of bacterial communities in wheat rhizospheres in different soils to di-n-butyl and di(2-ethylhexyl)phthalate contamination. <i>Geoderma</i> , <b>2020</b> , 362, 114126                                   | 6.7  | 10 |
| 23 | A novel mechanism study of microplastic and As co-contamination on indica rice ( <i>Oryza sativa</i> L.). <i>Journal of Hazardous Materials</i> , <b>2022</b> , 421, 126694  | 12.8 | 10 |
| 22 | 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> , <b>2018</b> , 11,                    | 3.5  | 9  |
| 21 | Capacity and mechanism of arsenic adsorption on red soil supplemented with ferromanganese oxide-biochar composites. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 20116-20124              | 5.1  | 8  |

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| 20 | Phytochelatin synthesis in response to elevated CO <sub>2</sub> under cadmium stress in <i>Lolium perenne</i> L. <i>Journal of Plant Physiology</i> , <b>2011</b> , 168, 1723-8  | 3.6 | 8 |
| 19 | 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> , <b>2020</b> , 27, 18196-18207                                      | 5.1 | 7 |
| 18 | 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> , <b>2017</b> , 34, 854-860   | 2   | 7 |
| 17 | Characteristic of adsorption cadmium of red soil amended with a ferromanganese oxide-biochar composite. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 5155-5163  | 5.1 | 7 |
| 16 | The sorbed mechanisms of engineering magnetic biochar composites on arsenic in aqueous solution. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 41361-41371   | 5.1 | 5 |
| 15 | 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> , <b>2020</b> , 27, 41446-41457            | 5.1 | 5 |
| 14 | Mechanism of novel MoS <sub>2</sub> -modified biochar composites for removal of cadmium (II) from aqueous solutions. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 34979-34989   | 5.1 | 5 |
| 13 | 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> , <b>2021</b> , 208, 111624 | 7   | 5 |
| 12 | 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> , <b>2019</b> , 250, 357-365  | 9.3 | 4 |
| 11 | Chloride ions promoted the catalytic wet peroxide oxidation of phenol over clay-based catalysts. <i>Water Science and Technology</i> , <b>2016</b> , 73, 1025-32   | 2.2 | 4 |
| 10 | Adsorption of arsenite to polystyrene microplastics in the presence of humus. <i>Environmental Sciences: Processes and Impacts</i> , <b>2020</b> , 22, 2388-2397   | 4.3 | 3 |
| 9  | Fe-Mn oxide modified biochar decreases phthalate uptake and improves grain quality of wheat grown in phthalate-contaminated fluvo-aquic soil. <i>Chemosphere</i> , <b>2021</b> , 270, 129428   | 8.4 | 3 |
| 8  | 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> , <b>2020</b> , 22, 1045-1056                                     | 4.3 | 2 |
| 7  | Effect of Fe-Mn-La-modified biochar composites on arsenic volatilization in flooded paddy soil. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 49889-49898  | 5.1 | 2 |
| 6  | Effects of Fe-Mn impregnated biochar on enzymatic activity and bacterial community in phthalate-polluted brown soil planted with wheat. <i>Environmental Pollution</i> , <b>2021</b> , 284, 117179   | 9.3 | 2 |
| 5  | Mechanism of As(III) removal properties of biochar-supported molybdenum-disulfide/iron-oxide system. <i>Environmental Pollution</i> , <b>2021</b> , 287, 117600  | 9.3 | 2 |
| 4  | Effects of polystyrene nanoplastics on lead toxicity in dandelion seedlings.. <i>Environmental Pollution</i> , <b>2022</b> , 306, 119349   | 9.3 | 2 |
| 3  | The influence of humic and fulvic acids on polytetrafluoroethylene-adsorbed arsenic: a mechanistic study. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 64503-64515  | 5.1 | 1 |

- 2 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 7 1
- 1 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<sup>51</sup> 34354<sup>0</sup>