

Fei Lian

List of Publications by Year in descending order

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38
papers

3,010
citations

257429

24
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302107

39
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all docs

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docs citations

40
times ranked

3302
citing authors

#	ARTICLE	IF	CITATIONS
1	Black Carbon (Biochar) In Water/Soil Environments: Molecular Structure, Sorption, Stability, and Potential Risk. <i>Environmental Science & Technology</i> , 2017, 51, 13517-13532.	10.0	441
2	Synthesis and characterization of a novel MnOx-loaded biochar and its adsorption properties for Cu ²⁺ in aqueous solution. <i>Chemical Engineering Journal</i> , 2014, 242, 36-42.	12.7	277
3	Biochars derived from various crop straws: Characterization and Cd(II) removal potential. <i>Ecotoxicology and Environmental Safety</i> , 2014, 106, 226-231.	6.0	190
4	N-doping effectively enhances the adsorption capacity of biochar for heavy metal ions from aqueous solution. <i>Chemosphere</i> , 2018, 193, 8-16.	8.2	187
5	One-step synthesis of a novel N-doped microporous biochar derived from crop straws with high dye adsorption capacity. <i>Journal of Environmental Management</i> , 2016, 176, 61-68.	7.8	172
6	Physicochemical properties of herb-residue biochar and its sorption to ionizable antibiotic sulfamethoxazole. <i>Chemical Engineering Journal</i> , 2014, 248, 128-134.	12.7	152
7	Simultaneous adsorption and degradation of ¹³ C-HCH by nZVI/Cu bimetallic nanoparticles with activated carbon support. <i>Environmental Pollution</i> , 2011, 159, 2507-2514.	7.5	146
8	Biosorption of divalent Pb, Cd and Zn on aragonite and calcite mollusk shells. <i>Environmental Pollution</i> , 2011, 159, 1763-1768.	7.5	134
9	Effect of humic acid (HA) on sulfonamide sorption by biochars. <i>Environmental Pollution</i> , 2015, 204, 306-312.	7.5	118
10	Size Matters: Nano-Biochar Triggers Decomposition and Transformation Inhibition of Antibiotic Resistance Genes in Aqueous Environments. <i>Environmental Science & Technology</i> , 2020, 54, 8821-8829.	10.0	111
11	The effect of biochar nanoparticles on rice plant growth and the uptake of heavy metals: Implications for agronomic benefits and potential risk. <i>Science of the Total Environment</i> , 2019, 656, 9-18.	8.0	99
12	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, 264-270.	7.5	90
13	The effect of biochar amendment on N-cycling genes in soils: A meta-analysis. <i>Science of the Total Environment</i> , 2019, 696, 133984.	8.0	85
14	Sorption of apolar and polar organic contaminants by waste tire rubber and its chars in single- and bi-solute systems. <i>Environmental Pollution</i> , 2011, 159, 850-857.	7.5	82
15	Comparative study on composition, structure, and adsorption behavior of activated carbons derived from different synthetic waste polymers. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 725-730.	9.4	77
16	Degradation of organic pollutants by Co ₃ O ₄ -mediated peroxymonosulfate oxidation: Roles of high-energy {O [•] -O [•] -1}-exposed TiO ₂ support. <i>Chemical Engineering Journal</i> , 2018, 334, 1430-1439.	12.7	75
17	Impact of low molecular weight organic acids (LMWOAs) on biochar micropores and sorption properties for sulfamethoxazole. <i>Environmental Pollution</i> , 2016, 214, 142-148.	7.5	73
18	EDTA-assisted phytoextraction of heavy metals by turfgrass from municipal solid waste compost using permeable barriers and associated potential leaching risk. <i>Bioresource Technology</i> , 2011, 102, 621-626.	9.6	71

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19	New Insights into Black Carbon Nanoparticle-Induced Dispersibility of Goethite Colloids and Configuration-Dependent Sorption for Phenanthrene. <i>Environmental Science & Technology</i> , 2019, 53, 661-670.	10.0	71
20	The role of biochars in sustainable crop production and soil resiliency. <i>Journal of Experimental Botany</i> , 2020, 71, 520-542.	4.8	53
21	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.	7.8	45
22	CuO nanoparticles doping recovered the photocatalytic anti-algal activity of graphitic carbon nitride. <i>Journal of Hazardous Materials</i> , 2021, 403, 123621.	12.4	35
23	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.	12.4	28
24	VOCs adsorption on activated carbon with initial water vapor contents: Adsorption mechanism and modified characteristic curves. <i>Science of the Total Environment</i> , 2020, 731, 139184.	8.0	26
25	Adsorptive removal of hydrophobic organic compounds by carbonaceous adsorbents: A comparative study of waste-polymer-based, coal-based activated carbon, and carbon nanotubes. <i>Journal of Environmental Sciences</i> , 2012, 24, 1549-1558.	6.1	25
26	Photochemical Transformation and Catalytic Activity of Dissolved Black Nitrogen Released from Environmental Black Carbon. <i>Environmental Science & Technology</i> , 2021, 55, 6476-6484.	10.0	23
27	Silicon combined with foliar melatonin for reducing the absorption and translocation of Cd and As by <i>Oryza sativa</i> L. in two contaminated soils. <i>Journal of Environmental Management</i> , 2021, 287, 112343.	7.8	21
28	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.	5.3	18
29	Variety-dependent responses of rice plants with differential cadmium accumulating capacity to cadmium telluride quantum dots (CdTe QDs): Cadmium uptake, antioxidative enzyme activity, and gene expression. <i>Science of the Total Environment</i> , 2019, 697, 134083.	8.0	16
30	Application of polymeric ferric sulfate combined with cross-frequency magnetic field in the printing and dyeing wastewater treatment. <i>Water Science and Technology</i> , 2019, 80, 1562-1570.	2.5	14
31	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.	10.0	13
32	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.	12.6	12
33	In situ synthesis of stretchable and highly stable multi-color carbon-dots/polyurethane composite films for light-emitting devices. <i>RSC Advances</i> , 2020, 10, 1281-1286.	3.6	9
34	Adsorption of Methyl Blue by Maize Waste Based Biochar: Adsorption Kinetics and Isotherms. <i>Journal of Physics: Conference Series</i> , 2020, 1622, 012081.	0.4	5
35	Systematic Research on the Transport of Ball-Milled Biochar in Saturated Porous Media: Effect of Humic Acid, Ionic Strength, and Cation Types. <i>Nanomaterials</i> , 2022, 12, 988.	4.1	5
36	Nano-biochar modulates the formation of iron plaque through facilitating iron-involved redox reactions on aquatic plant root surfaces. <i>Environmental Science: Nano</i> , 2022, 9, 1974-1985.	4.3	4

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37	Synergic Effect of Microorganism and Colloidal Biochar-Based Organic Fertilizer on the Growth and Fruit Quality of Tomato. <i>Coatings</i> , 2021, 11, 1453.	2.6	3
38	Effect of root exudates on the release, surface property, colloidal stability, and phytotoxicity of dissolved black carbon. <i>Ecotoxicology and Environmental Safety</i> , 2022, 239, 113687.	6.0	2