

Review of biochar for the management of contaminated prospect

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Chemical Fractions and Availability of Zn in a Calcareous Soil in Response to Biochar Amendments. <i>Journal of Soil Science and Plant Nutrition</i> , 2019, 19, 851-864.	1.7	31
2	Biochar incorporation increased nitrogen and carbon retention in a waste-derived soil. <i>Science of the Total Environment</i> , 2019, 690, 1228-1236.	3.9	35
3	Modification of Biochar Formation during Slow Pyrolysis in the Presence of Alkali Metal Carbonate Additives. <i>Energy & Fuels</i> , 2019, 33, 11235-11245.	2.5	15
4	<i>Wodyetia bifurcata</i> biochar for methylene blue removal from aqueous matrix. <i>Bioresource Technology</i> , 2019, 293, 122093.	4.8	61
5	Effects of biochar application during different periods on soil structures and water retention in seasonally frozen soil areas. <i>Science of the Total Environment</i> , 2019, 694, 133732.	3.9	46
6	Biochar and earthworms working in tandem: Research opportunities for soil bioremediation. <i>Science of the Total Environment</i> , 2019, 688, 574-583.	3.9	47
7	Effects of crop straw and its derived biochar on the mobility and bioavailability in Cd and Zn in two smelter-contaminated alkaline soils. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 155-163.	2.9	70
8	Temporal Changes in the Efficiency of Biochar- and Compost-Based Amendments on Copper Immobilization in Vineyard Soils. <i>Soil Systems</i> , 2019, 3, 78.	1.0	1
9	Potentials, Limitations, Co-Benefits, and Trade-Offs of Biochar Applications to Soils for Climate Change Mitigation. <i>Land</i> , 2019, 8, 179.	1.2	79
10	Sustainable agriculture options for production, greenhouse gasses and pollution alleviation, and nutrient recycling in emerging and transitional nations - An overview. <i>Journal of Cleaner Production</i> , 2020, 242, 118319.	4.6	145
11	Understanding structure-performance correlation of biochar materials in environmental remediation and electrochemical devices. <i>Chemical Engineering Journal</i> , 2020, 382, 122977.	6.6	109
12	Chemical and biological immobilization mechanisms of potentially toxic elements in biochar-amended soils. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 903-978.	6.6	157
13	Biochar for Water and Soil Remediation: Production, Characterization, and Application. , 2020, , 153-196.		13
14	Thermodynamics of hydrothermal carbonization: Assessment of the heat release profile and process enthalpy change. <i>Fuel Processing Technology</i> , 2020, 197, 106206.	3.7	21
15	An efficient multiphase bioprocess for enhancing the renewable energy production from almond shells. <i>Energy Conversion and Management</i> , 2020, 203, 112235.	4.4	24
16	Responses of enzymatic activity and microbial communities to biochar/compost amendment in sulfamethoxazole polluted wetland soil. <i>Journal of Hazardous Materials</i> , 2020, 385, 121533.	6.5	131
17	Manganese-modified biochar for highly efficient sorption of cadmium. <i>Environmental Science and Pollution Research</i> , 2020, 27, 9126-9134.	2.7	36
18	Effects of wet and dry ball milling on the physicochemical properties of sawdust derived-biochar. <i>Instrumentation Science and Technology</i> , 2020, 48, 287-300.	0.9	16

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19	Effects of wheat straw derived biochar on cadmium availability in a paddy soil and its accumulation in rice. <i>Environmental Pollution</i> , 2020, 257, 113592.	3.7	66
20	Preparation, environmental application and prospect of biochar-supported metal nanoparticles: A review. <i>Journal of Hazardous Materials</i> , 2020, 388, 122026.	6.5	172
21	Surface and colloid properties of biochar and implications for transport in porous media. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 2484-2522.	6.6	56
22	Potential of pistachio shell biochar and dicalcium phosphate combination to reduce Pb speciation in spinach, improved soil enzymatic activities, plant nutritional quality, and antioxidant defense system. <i>Chemosphere</i> , 2020, 245, 125611.	4.2	252
24	Soil structure characteristics, functional properties and consistency limits response to corn cob biochar particle size and application rates in a 36-month pot experiment. <i>Soil Research</i> , 2020, 58, 488.	0.6	8
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26	Can biochar reclaim coal mine spoil?. <i>Journal of Environmental Management</i> , 2020, 272, 111097.	3.8	37
27	Addition of recyclable biochar, compost and fibre clay to the growth medium layer for the cover system of mine tailings: a bioassay in a greenhouse. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	5
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29	The impact of enhanced and non-enhanced biochars on the catabolism of ¹⁴ C-phenanthrene in soil. <i>Environmental Technology and Innovation</i> , 2020, 20, 101146.	3.0	5
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31	The impact of carbonate salts on char formation and gas evolution during the slow pyrolysis of biomass, cellulose, and lignin. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5987-6003.	2.5	18
32	Effects of Manure Waste Biochars in Mining Soils. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3393.	1.3	10
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37	Effect of Biochar on Cadmium Fractions in Some Polluted Saline and Sodic Soils. <i>Environmental Management</i> , 2020, 66, 1133-1141.	1.2	17

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38	A Mild Method for Preparation of Highly Selective Magnetic Biochar Microspheres. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3752.	1.8	8
39	Bioelectrochemical remediation of Cr(VI)/Cd(II)-contaminated soil in bipolar membrane microbial fuel cells. <i>Environmental Research</i> , 2020, 186, 109582.	3.7	38
40	Short-Term Effects of Organic Amendments on Soil Properties and Maize (<i>Zea mays</i> L.) Growth. <i>Agriculture (Switzerland)</i> , 2020, 10, 158.	1.4	11
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42	Biochar-based composites as electrode active materials in hybrid supercapacitors with particular focus on surface topography and morphology. <i>Journal of Energy Storage</i> , 2020, 29, 101291.	3.9	34
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48	Combined application of biochar and sulfur regulated growth, physiological, antioxidant responses and Cr removal capacity of maize (<i>Zea mays</i> L.) in tannery polluted soils. <i>Journal of Environmental Management</i> , 2020, 259, 110051.	3.8	83
49	Effect of biochar on desiccation cracking characteristics of clayey soils. <i>Geoderma</i> , 2020, 364, 114182.	2.3	54
50	Critical study of crop-derived biochars for soil amendment and pharmaceutical ecotoxicity reduction. <i>Chemosphere</i> , 2020, 248, 125976.	4.2	11
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58	Modification on biochars for applications: A research update. <i>Bioresource Technology</i> , 2021, 319, 124100.	4.8	118
59	Charcoal ecology: Its function as a hub for plant succession and soil nutrient cycling in boreal forests. <i>Ecological Research</i> , 2021, 36, 4-12.	0.7	14
60	Long-term biochar application promotes rice productivity by regulating root dynamic development and reducing nitrogen leaching. <i>GCB Bioenergy</i> , 2021, 13, 257-268.	2.5	46
61	Enriched biogas and biofertilizer production from <i>Eichhornia</i> weed biomass in cow dung biochar-amended anaerobic digestion system. <i>Environmental Technology and Innovation</i> , 2021, 21, 101201.	3.0	25
62	Hydrothermal production of algal biochar for environmental and fertilizer applications: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1025-1042.	8.3	27
63	Synthesis, characterization, and lead (II) sorption performance of a new magnetic separable composite: $MnFe_2O_4$ @wild plants-derived biochar. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104567.	3.3	18
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70	Early Effect of Pine Biochar on Peach-Tree Planting on Microbial Community Composition and Enzymatic Activity. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1473.	1.3	3
71	Assessment of Ecological Condition of Haplic Chernozem Calcic Contaminated with Petroleum Hydrocarbons during Application of Bioremediation Agents of Various Natures. <i>Land</i> , 2021, 10, 169.	1.2	14
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73	Influence of biochar on trace element uptake, toxicity and detoxification in plants and associated health risks: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2803-2843.	6.6	63

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75	A review of China's municipal solid waste (MSW) and comparison with international regions: Management and technologies in treatment and resource utilization. <i>Journal of Cleaner Production</i> , 2021, 293, 126144.	4.6	289
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78	One-step synthesis of mixed valence FeOX nanoparticles supported on biomass activated carbon for degradation of bisphenol A by activating peroxydisulfate. <i>Journal of Hazardous Materials</i> , 2021, 409, 124990.	6.5	40
79	Co-application of biochar and microorganisms improves soybean performance and remediate cadmium-contaminated soil. <i>Ecotoxicology and Environmental Safety</i> , 2021, 214, 112112.	2.9	50
80	Assessing the diverse environmental effects of biochar systems: An evaluation framework. <i>Journal of Environmental Management</i> , 2021, 286, 112154.	3.8	18
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82	Distinctive in-planta acclimation responses to basal growth and acute heat stress were induced in <i>Arabidopsis</i> by cattle manure biochar. <i>Scientific Reports</i> , 2021, 11, 9875.	1.6	3
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111	Treatment of the saline-alkali soil with acidic corn stalk biochar and its effect on the sorghum yield in western Songnen Plain. <i>Science of the Total Environment</i> , 2021, 797, 149190.	3.9	38
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144	Effect of Organic Amendments in Soil on Physiological and Biochemical Attributes of Vachellia nilotica and Dalbergia sissoo under Saline Stress. Plants, 2022, 11, 228.	1.6	8
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146	Biochar application in biofiltration systems to remove nutrients, pathogens, and pharmaceutical and personal care products from wastewater. Journal of Environmental Quality, 2022, 51, 129-151.	1.0	8
147	Biochar affects methylmercury production and bioaccumulation in paddy soils: Insights from soil-derived dissolved organic matter. Journal of Environmental Sciences, 2022, 119, 68-77.	3.2	11

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148	Cadmium Phytotoxicity, Tolerance, and Advanced Remediation Approaches in Agricultural Soils; A Comprehensive Review. <i>Frontiers in Plant Science</i> , 2022, 13, 773815.	1.7	77
149	Bioavailability and contamination levels of Zn, Pb, and Cd in sandy-loam soils, Botswana. <i>Environmental Earth Sciences</i> , 2022, 81, 1.	1.3	3
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