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Physical Disintegration of Biochar: An Overlooked Process

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203	Towards a global assessment of pyrogenic carbon from vegetation fires. 2016 , 22, 76-91		189
202	Metolachlor Sorption and Degradation in Soil Amended with Fresh and Aged Biochars. 2016 , 64, 3141-9		30
201	Biochar physico-chemical properties as affected by environmental exposure. 2016 , 563-564, 237-46		80
200	Mixing of biochar with organic amendments reduces carbon removal after field exposure under tropical conditions. 2016 , 91, 378-380		16
199	Nutrient release and ammonium sorption by poultry litter and wood biochars in stormwater treatment. 2016 , 553, 596-606		76
198	Investigating Security Vulnerabilities in Modern Vehicle Systems. 2016 , 29-40		6
197	Molecular characterization of the thermally labile fraction of biochar by hydrolysis and pyrolysis-GC/MS. 2016 , 121, 230-239		19
196	Gasified Grass and Wood Biochars Facilitate Plant Establishment in Acid Mine Soils. 2016 , 45, 1013-20		12

195	Soil Health, Crop Productivity, Microbial Transport, and Mine Spoil Response to Biochars. 2016 , 9, 454-464	43
194	Organic geochemical approaches to identifying formation processes for middens and charcoal-rich features. 2016 , 94, 1-11	4
193	The Interfacial Behavior between Biochar and Soil Minerals and Its Effect on Biochar Stability. 2016 , 50, 2264-71	192
192	Impacts of biochar concentration and particle size on hydraulic conductivity and DOC leaching of biochar and mixtures. 2016 , 533, 461-472	111
191	Chemical and structural properties of dissolved black carbon released from biochars. 2016 , 96, 759-767	154
190	Biochars impact on water infiltration and water quality through a compacted subsoil layer. 2016 , 142, 160-7	49
189	Predicting the impact of biochar additions on soil hydraulic properties. 2016 , 142, 136-44	146
188	Biochar stability in soil: meta-analysis of decomposition and priming effects. 2016 , 8, 512-523	498
187	Nanoscale analyses of the surface structure and composition of biochars extracted from field trials or after co-composting using advanced analytical electron microscopy. 2017 , 294, 70-79	65
186	Effect of biochar on crust formation, penetration resistance and hydraulic properties of two coarse-textured tropical soils. 2017 , 170, 114-121	26
185	Environmental hotspots in the life cycle of a biochar-soil system. 2017 , 158, 1-7	34
184	Comparing current chemical methods to assess biochar organic carbon in a Mediterranean agricultural soil amended with two different biochars. 2017 , 598, 604-618	18
183	Effect of environmental exposure on charcoal density and porosity in a boreal forest. 2017 , 592, 316-325	9
182	Changes in biochar physical and chemical properties: Accelerated biochar aging in an acidic soil. 2017 , 115, 209-219	88
181	Organic coating on biochar explains its nutrient retention and stimulation of soil fertility. 2017 , 8, 1089	230
180	Temperature sensitivity and priming of organic matter with different stabilities in a Vertisol with aged biochar. 2017 , 115, 346-356	33
179	Magnetic Nanoscale Zerovalent Iron Assisted Biochar: Interfacial Chemical Behaviors and Heavy Metals Remediation Performance. 2017 , 5, 9673-9682	121
178	REPRESENTATIVENESS OF EUROPEAN BIOCHAR RESEARCH: PART I [FIELD EXPERIMENTS. 2017 , 25, 140-151	17

177	Aging impacts of low molecular weight organic acids (LMWOAs) on furfural production residue-derived biochars: Porosity, functional properties, and inorganic minerals. 2017 , 607-608, 1428-1436	38
176	Black Carbon (Biochar) In Water/Soil Environments: Molecular Structure, Sorption, Stability, and Potential Risk. 2017 , 51, 13517-13532	267
175	A multi-technique approach to assess the fate of biochar in soil and to quantify its effect on soil organic matter composition. 2017 , 112, 177-186	22
174	Vertical and lateral transport of biochar in light-textured tropical soils. 2017 , 165, 34-40	24
173	Does soil aging affect the N ₂ O mitigation potential of biochar? A combined microcosm and field study. 2017 , 9, 953-964	41
172	Impact of Three Types of Biochar on the Hydrological Properties of Eroded and Depositional Landscape Positions. 2017 , 81, 878-888	11
171	Impact of Biochar Formulation on the Release of Particulate Matter and on Short-Term Agronomic Performance. 2017 , 9, 1131	10
170	Nitrate capture and slow release in biochar amended compost and soil. 2017 , 12, e0171214	87
169	Surface Characterization of Aged Biochar Incubated in Different Types of Soil. 2017 , 12,	8
168	Control of mercury and methylmercury in contaminated sediments using biochars: A long-term microcosm study. 2018 , 92, 30-44	34
167	Effects of biochar input on the properties of soil nanoparticles and dispersion/sedimentation of natural mineral nanoparticles in aqueous phase. 2018 , 634, 595-605	17
166	Effect of biochar amendment on water infiltration in a coastal saline soil. 2018 , 18, 3271-3279	26
165	Insight into Multiple and Multilevel Structures of Biochars and Their Potential Environmental Applications: A Critical Review. 2018 , 52, 5027-5047	349
164	Plenty of room for carbon on the ground: Potential applications of biochar for stormwater treatment. 2018 , 625, 1644-1658	110
163	Sorption mechanisms of neonicotinoids on biochars and the impact of deashing treatments on biochar structure and neonicotinoids sorption. 2018 , 234, 812-820	56
162	Properties of biochar. 2018 , 217, 240-261	440
161	Effect of in-situ aged and fresh biochar on soil hydraulic conditions and microbial C use under drought conditions. 2018 , 8, 6852	58
160	Advances in research on the use of biochar in soil for remediation: a review. 2018 , 18, 2433-2450	65

159	Effects of aging under field conditions on biochar structure and composition: Implications for biochar stability in soils. 2018 , 613-614, 969-976	103
158	The influence of lignocellulose and hemicellulose biochar on photosynthesis and water use efficiency in seedlings from a Northeastern U.S. pine-oak ecosystem. 2018 , 37, 25-37	9
157	Effect of biochar amendment on compost organic matter composition following aerobic composting of manure. 2018 , 613-614, 20-29	64
156	Physical feasibility of biochar production and utilization at a farm-scale: A case-study in non-irrigated seed production. 2018 , 108, 244-251	10
155	Microstructural and associated chemical changes during the composting of a high temperature biochar: Mechanisms for nitrate, phosphate and other nutrient retention and release. 2018 , 618, 1210-1223	107
154	Thermal air oxidation changes surface and adsorptive properties of black carbon (char/biochar). 2018 , 618, 276-283	35
153	Environmental transformation of natural and engineered carbon nanoparticles and implications for the fate of organic contaminants. 2018 , 5, 2500-2518	34
152	Biochar as a potential soil additive for improving soil physical properties— review. 2018 , 11, 1	24
151	Kaolinite Enhances the Stability of the Dissolvable and Undissolvable Fractions of Biochar via Different Mechanisms. 2018 , 52, 8321-8329	50
150	Promoting revegetation and soil carbon sequestration on decommissioned forest roads in Colorado, USA: A comparative assessment of organic soil amendments. 2018 , 427, 230-241	8
149	Influence of Biochar from Slow Pyrolysis on Dissolved Organic Carbon and Total Dissolved Nitrogen Levels of Urban Storm-Water Runoff. 2018 , 229, 1	2
148	Adsorption and desorption of nitrous oxide by raw and thermally air-oxidized chars. 2018 , 643, 1436-1445	13
147	Formation and Physicochemical Characteristics of Nano Biochar: Insight into Chemical and Colloidal Stability. 2018 , 52, 10369-10379	91
146	Quantification and characterization of dissolved organic carbon from biochars. 2019 , 335, 161-169	74
145	Biochar particle aggregation in soil pore water: the influence of ionic strength and interactions with pyrene. 2019 , 21, 1722-1728	4
144	Dynamic Effect of Fresh and Aged Biochar on the Behavior of the Herbicide Mesotrione in Soils. 2019 , 67, 9450-9459	9
143	A Biochar-Based Route for Environmentally Friendly Controlled Release of Nitrogen: Urea-Loaded Biochar and Bentonite Composite. 2019 , 9, 9548	45
142	Charcoal Fine Residues Effects on Soil Organic Matter Humic Substances, Composition, and Biodegradability. 2019 , 9, 384	5

141	Structure, chemistry and physicochemistry of lignin for material functionalization. 2019 , 1, 1	11
140	Contrasting effects of corn straw biochar on soil water infiltration and retention at tilled and compacted bulk densities in the Yellow River Delta. 2019 , 99, 357-366	2
139	Biochar insights from laboratory incubations monitoring O ₂ consumption and CO ₂ production. 2019 , 1, 249-258	3
138	Infiltration behavior of heavy metals in runoff through soil amended with biochar as bulking agent. 2019 , 254, 113114	16
137	Effect of chemical aging of Alternanthera philoxeroides-derived biochar on the adsorption of Pb(II). 2019 , 80, 329-338	3
136	Physicochemical property and colloidal stability of micron- and nano-particle biochar derived from a variety of feedstock sources. 2019 , 661, 685-695	66
135	Magnetic graphene oxide-nano zero valent iron (GO-nZVI) nanohybrids synthesized using biocompatible cross-linkers for methylene blue removal.. 2019 , 9, 963-973	22
134	Soil properties and combustion temperature: Controls on the decomposition rate of pyrogenic organic matter. 2019 , 182, 104127	9
133	Chemical Aging Changed Aggregation Kinetics and Transport of Biochar Colloids. 2019 , 53, 8136-8146	44
132	Amelioration in nutrient mineralization and microbial activities of sandy loam soil by short term field aged biochar. 2019 , 138, 144-155	27
131	Biochar impacts on sorption-desorption of oxytetracycline and florfenicol in an alkaline farmland soil as affected by field ageing. 2019 , 671, 928-936	24
130	Growth, Seed Yield, Mineral Nutrients and Soil Properties of Sesame (<i>Sesamum indicum</i> L.) as Influenced by Biochar Addition on Upland Field Converted from Paddy. 2019 , 9, 55	16
129	Potentials, Limitations, Co-Benefits, and Trade-Offs of Biochar Applications to Soils for Climate Change Mitigation. 2019 , 8, 179	34
128	Pyrogenic carbon capture and storage. 2019 , 11, 573-591	53
127	Quantifying biochar content in a field soil with varying organic matter content using a two-temperature loss on ignition method. 2019 , 658, 1106-1116	14
126	Elemental and Spectroscopic Characterization of Low-Temperature (350°C) Lignocellulosic- and Manure-Based Designer Biochars and Their Use as Soil Amendments. 2019 , 37-58	6
125	New Insights into Black Carbon Nanoparticle-Induced Dispersibility of Goethite Colloids and Configuration-Dependent Sorption for Phenanthrene. 2019 , 53, 661-670	34
124	Interaction of Inherent Minerals with Carbon during Biomass Pyrolysis Weakens Biochar Carbon Sequestration Potential. 2019 , 7, 1591-1599	43

123	The effect of biochar nanoparticles on rice plant growth and the uptake of heavy metals: Implications for agronomic benefits and potential risk. 2019 , 656, 9-18	54
122	Changes in sorption and bioavailability of herbicides in soil amended with fresh and aged biochar. 2019 , 337, 341-349	36
121	Impacts of biochar application rates and particle sizes on runoff and soil loss in small cultivated loess plots under simulated rainfall. 2019 , 649, 1403-1413	45
120	Immobilization of heavy metals in contaminated soil after mining activity by using biochar and other industrial by-products: the significant role of minerals on the biochar surfaces. 2019 , 40, 3200-3215	25
119	Iron-montmorillonite treated corn straw biochar: Interfacial chemical behavior and stability. 2020 , 708, 134773	21
118	Effects of biochar nanoparticles on seed germination and seedling growth. 2020 , 256, 113409	24
117	Remediation of cadmium-contaminated soil with biochar simultaneously improves biocharB recalcitrance. 2020 , 256, 113436	28
116	Effect of water leaching on biochar properties and its impact on organic contaminant sorption. 2020 , 27, 691-703	6
115	Surface and colloid properties of biochar and implications for transport in porous media. 2020 , 50, 2484-2522	13
114	Effect of biochar type on infiltration, water retention and desiccation crack potential of a silty sand. 2020 , 2, 465-478	6
113	Generation, Resuspension, and Transport of Particulate Matter From Biochar-Amended Soils: A Potential Health Risk. 2020 , 4, e2020GH000311	3
112	Sustainable Natural Materials and Their Importance for Waste Management and Stabilization of Soil Pollution. 2020 , 93-141	1
111	Effects of aging and weathering on immobilization of trace metals/metalloids in soils amended with biochar. 2020 , 22, 1790-1808	14
110	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. 2020 , 54, 14797-14814	92
109	A simple method for the synthesis of biochar nanodots using hydrothermal reactor. 2020 , 7, 101022	10
108	Dependence of pyrolysis temperature and lignocellulosic physical-chemical properties of biochar on its wettability. 2020 , 1	12
107	Enhanced Transformation of Cr(VI) by Heterocyclic-N within Nitrogen-Doped Biochar: Impact of Surface Modulatory Persistent Free Radicals (PFRs). 2020 , 54, 8123-8132	43
106	Predicting water retention of biochar-amended soil from independent measurements of biochar and soil properties. 2020 , 142, 103638	17

105	Size Matters: Nano-Biochar Triggers Decomposition and Transformation Inhibition of Antibiotic Resistance Genes in Aqueous Environments. 2020 , 54, 8821-8829	44
104	Adsorption of organic contaminants on biochar colloids: effects of pyrolysis temperature and particle size. 2020 , 27, 18412-18422	15
103	Temporal physicochemical changes and transformation of biochar in a rice paddy: Insights from a 9-year field experiment. 2020 , 721, 137670	28
102	Influence of biochar on the soil water retention characteristics (SWRC): Potential application in geotechnical engineering structures. 2020 , 204, 104713	31
101	Effects of different water management strategies on the stability of cadmium and copper immobilization by biochar in rice-wheat rotation system. 2020 , 202, 110887	8
100	Surface properties and suspension stability of low-temperature pyrolyzed biochar nanoparticles: Effects of solution chemistry and feedstock sources. 2020 , 259, 127510	15
99	Toxic effects of engineered carbon nanoparticles on environment. 2020 , 237-260	7
98	Insights on photochemical activities of organic components and minerals in dissolved state biochar in the degradation of atorvastatin in aqueous solution. 2020 , 392, 122277	5
97	Release and stability of water dispersible biochar colloids in aquatic environments: Effects of pyrolysis temperature, particle size, and solution chemistry. 2020 , 260, 114037	16
96	Chemical Characteristics of Macroscopic Pyrogenic Carbon Following Millennial-Scale Environmental Exposure. 2020 , 7,	2
95	Application of biochar-based materials in environmental remediation: from multi-level structures to specific devices. 2020 , 2, 1-31	60
94	Sulfide reduction can significantly enhance transport of biochar fine particles in saturated porous medium. 2020 , 263, 114445	3
93	Nutrient Loaded Biochar Doubled Biomass Production in Juvenile Maize Plants (<i>Zea mays</i> L.). 2020 , 10, 567	17
92	Rice husk biochar influences runoff features, soil loss, and hydrological behavior of a loamy soil in a series of successive simulated rainfall events. 2020 , 192, 104587	7
91	Facile preparation of sulfonated biochar for highly efficient removal of toxic Pb(II) and Cd(II) from wastewater. 2021 , 750, 141545	35
90	Mechanically mixed ZnO-Al ₂ O ₃ catalysts in the synthesis of propylene carbonate via alcoholysis of urea. 2021 , 99, 374-382	1
89	Release and sedimentation behaviors of biochar colloids in soil solutions. 2021 , 100, 269-278	4
88	Influence of biochar particle size on the hydraulic conductivity of two different compacted engineered soils. 1	4

87	Leaching of organic carbon enhances mobility of biochar nanoparticles in saturated porous media. 2021 , 8, 2584-2594	1
86	Key drivers of pyrogenic carbon redistribution during a simulated rainfall event. 2021 , 18, 1105-1126	4
85	Biochar-Compost Interactions as Affected by Weathering: Effects on Biological Stability and Plant Growth. 2021 , 11, 336	4
84	Critical review of biochar applications in geoenvironmental infrastructure: moving beyond agricultural and environmental perspectives. 1	20
83	Biochar engineering and ageing influence the spatiotemporal dynamics of soil pH in the charosphere. 2021 , 386, 114919	10
82	Accumulation of organic compounds in paddy soils after biochar application is controlled by iron hydroxides. 2021 , 764, 144300	7
81	A review of the potentiality of biochar technology to abate emissions of particulate matter originating from agriculture. 1	3
80	Combined use of lime, bentonite, and biochar for immobilization of Cd and mobilization of Se in paddy soil. 2021 , 28, 45050-45063	3
79	Binding of Benzo[a]pyrene Alters the Bioreactivity of Fine Biochar Particles toward Macrophages Leading to Deregulated Macrophagic Defense and Autophagy. 2021 , 15, 9717-9731	7
78	Stabilization of dissolvable biochar by soil minerals: Release reduction and organo-mineral complexes formation. 2021 , 412, 125213	14
77	A comprehensive review of biochar-derived dissolved matters in biochar application: Production, characteristics, and potential environmental effects and mechanisms. 2021 , 9, 105258	10
76	Soil colloids affect the aggregation and stability of biochar colloids. 2021 , 771, 145414	10
75	Nutrient alterations following biochar application to a Cd-contaminated solution and soil. 2021 , 3, 457-468	0
74	Physicochemical disintegration of biochar: a potentially important process for long-term cadmium and lead sorption. 1	1
73	Review of Large-Scale Biochar Field-Trials for Soil Amendment and the Observed Influences on Crop Yield Variations. 2021 , 9,	7
72	Effects of biochar nanoparticles as a soil amendment on the structure and hydraulic characteristics of a sandy loam soil.	4
71	Long-term effects of softwood biochar on soil physical properties, greenhouse gas emissions and crop nutrient uptake in two contrasting boreal soils. 2021 , 316, 107454	8
70	Effects of biochar aging in the soil on its mechanical property and performance for soil CO and NO emissions. 2021 , 782, 146824	17

69	Lindane degradation in wet-dry cycling soil as affected by aging and microbial toxicity of biochar. 2021 , 219, 112374	2
68	Biochar Nanoparticles Induced Distinct Biological Effects on Freshwater Algae via Oxidative Stress, Membrane Damage, and Nutrient Depletion. 2021 , 9, 10761-10770	4
67	Biochar Stability in a Highly Weathered Sandy Soil under Four Years of Continuous Corn Production. 2021 , 14, 6157	
66	Soil Nitrogen Sorption Using Charcoal and Wood Ash. 2021 , 11, 1801	3
65	The effect of pyrolysis temperature on the characteristics of biochar, pyrolytic acids, and gas prepared from cotton stalk through a polygeneration process. 2021 , 170, 113690	9
64	Potential hazards of biochar: The negative environmental impacts of biochar applications. 2021 , 420, 126611	19
63	Overlooked contributions of biochar-derived dissolved organic matter on the adsorption of Pb (II): Impacts of fractionation and interfacial force. 2021 , 420, 126692	3
62	New insights into the enhanced transport of uncoated and polyvinylpyrrolidone-coated silver nanoparticles in saturated porous media by dissolved black carbons. 2021 , 283, 131159	3
61	PAHs sorption to biochar colloids changes their mobility over time. 2021 , 603, 126839	1
60	Investigating the effects of biochar colloids and nanoparticles on cucumber early seedlings. 2022 , 804, 150233	2
59	Preparation and analysis of pyrolytic liquor, charcoal and gas from lacquer wood by carbonization method based on a biorefinery process. 2022 , 239, 121918	1
58	Phosphorus Release and Adsorption Properties of Polyurethane-Biochar Crosslinked Material as a Filter Additive in Bioretention Systems. 2021 , 13,	4
57	Soil-biochar-plant interaction: differences from the perspective of engineered and agricultural soils. 2020 , 79, 4461-4481	12
56	In Situ Persistence and Migration of Biochar Carbon and Its Impact on Native Carbon Emission in Contrasting Soils under Managed Temperate Pastures. 2015 , 10, e0141560	37
55	Effect of freeze-thaw cycling on grain size of biochar. 2018 , 13, e0191246	11
54	REVIEW: DISSOLVED ORGANIC CARBON CONTENT OF BIOCHAR VARYING WITH THE TYPE OF FEEDSTOCK AND THE PYROLYSIS TEMPERATURE. 2017 ,	1
53	Vertical mobility of pyrogenic organic matter in soils: a column experiment. 2020 , 17, 6457-6474	5
52	Stability of biochar in mineral soils: Assessment methods, influencing factors and potential problems. 2022 , 806, 150789	1

51	Interactions between biochar and clay minerals in changing biochar carbon stability. 2021 , 809, 151124	2
50	Application of Novel Biochars from Maize Straw Mixed with Fermentation Wastewater for Soil Health. 2018 , 25-43	
49	Rangeland application of biochar and rotational grazing interact to influence soil and plant nutrient dynamics. 2022 , 408, 115572	1
48	Recent advances in the application of biochar in microbial electrochemical cells. 2021 , 311, 122501	5
47	Stability of biochar in five soils: Effects from soil property. e13775	
46	Biochar role in improving pathogens removal capacity of stormwater biofilters. 2021 , 7, 175-201	1
45	Effects of synthesis method, feedstock type, and pyrolysis temperature on physicochemical properties of biochar nanoparticles. 1	
44	Effect of ageing on biochar properties and pollutant management.. 2021 , 292, 133427	2
43	Aging features of metal(loid)s in biochar-amended soil: Effects of biochar type and aging method.. 2022 , 152922	3
42	Aggregation kinetics of biochar nanoparticles in aqueous environment: Interplays of anion type and bovine serum albumin.. 2022 , 155148	0
41	Interaction of pristine and mineral engineered biochar with microbial community in attenuating the heavy metals toxicity: A review. 2022 , 175, 104444	0
40	Nano-biochar: A novel solution for sustainable agriculture and environmental remediation.. 2022 , 210, 112891	2
39	Structural and Chemical Changes of Pyrogenic Organic Matter Aged in Boreal Forest Soil.	
38	Carbon nanomaterial-based sensor safety in different fields. 2022 , 315-332	2
37	Biochar-based agricultural soil management: An application-dependent strategy for contributing to carbon neutrality. 2022 , 164, 112529	1
36	Biochar for carbon sequestration and environmental remediation in soil. 2022 , 35-49	
35	Transport Behaviors of Biochar Particles in Saturated Porous Media Under Dc Electric Field.	
34	Structural and chemical changes of pyrogenic organic matter aged in boreal forest soil. 2022 ,	

33	Waste-derived biochar for water pollution control and sustainable development.	5
32	Development of chitosan-magnetic sawdust hydrochar for Pb and Zn immobilization process on various soil conditions.	0
31	The black carbon cycle and its role in the Earth system.	4
30	Biochar colloids facilitate transport and transformation of Cr(VI) in soil: Active site competition coupling with reduction reaction. 2022 , 129691	0
29	Effects of water-organic fertilizer coupling on immobilization remediation technology using sepiolite. 2022 , 81,	1
28	Application of Biochar for Improving Physical, Chemical, and Hydrological Soil Properties: A Systematic Review. 2022 , 14, 11104	1
27	Transport behaviors of biochar particles in saturated porous media under DC electric field. 2023 , 856, 159084	0
26	Effect of biochar application method and amount on the soil quality and maize yield in Mollisols of Northeast China. 2022 , 4,	0
25	Effects of Ash Composition and Combustion Temperature on Reduced Particulate Matter Emission by Biomass Carbonization.	0
24	Preparation of biochar and its adsorbing performance evaluation in the petroleum hydrocarbon.	0
23	Minerals: A missing role for enhanced biochar carbon sequestration from the thermal conversion of biomass to the application in soil. 2022 , 234, 104215	0
22	Impact of biochar colloids on thallium(I) transport in water-saturated porous media: Effects of pH and ionic strength. 2023 , 311, 137152	0
21	Physicochemical Properties of Nanosized Biochar Regulated by Heat Treatment Temperature Dictates Algal Responses: From the Perspective of Fatty Acid Metabolism. 2022 , 130342	0
20	The roles of Fe oxyhydroxide coating and chemical aging in pyrogenic carbon nanoparticle transport in unsaturated porous media. 2023 , 317, 120776	0
19	Transport of biochar colloids under unsaturated flow condition: Roles of chemical aging and cation type. 2023 , 859, 160415	0
18	Electron exchange capacities of colloidal biochar: Affected by spatial structure distribution instead of particle size. 2022 , 140567	0
17	Rapid Simulation of Decade-Scale Charcoal Aging in Soil: Changes in Physicochemical Properties and Their Environmental Implications.	0
16	Enhanced loss but limited mobility of pyrogenic and organic matter in continuous permafrost-affected forest soils. 2023 , 108959	0

- 15 Small biochar particles hardly disintegrate under cryo-stress. **2023**, 430, 116326 ○
- 14 Biochar nanoparticles-mediated transport of organic contaminants in porous media: dependency on contaminant properties and effects of biochar aging. **2023**, 2, ○
- 13 Experimental and numerical investigations of biochar-facilitated Cd²⁺ transport in saturated porous media: role of solution pH and ionic strength. **2023**, 5, ○
- 12 The characteristic difference between non-drilosphere and drilosphere-aged biochar: Revealing that earthworms accelerate the aging of biochar. **2023**, 321, 138141 ○
- 11 Carbon content determines the aggregation of biochar colloids from various feedstocks. **2023**, 880, 163313 ○
- 10 Co-transport of biochar nanoparticles (BC NPs) and rare earth elements (REEs) in water-saturated porous media: New insights into REE fractionation. **2023**, 453, 131390 ○
- 9 Effect of biochar application on rice, wheat, and corn seedlings in hydroponic culture. **2024**, 135, 379-390 ○
- 8 Potential disintegration and transport of biochar in the soil-water environment: A case study towards purple soil. **2023**, 222, 115383 ○
- 7 Nano-biochar: Properties and prospects for sustainable agriculture. ○
- 6 Visualization of biochar colloids transport and retention in two-dimensional porous media. **2023**, 619, 129266 ○
- 5 Biochar as a novel technology for treatment of onsite domestic wastewater: A critical review. 11, ○
- 4 Complementing compost with biochar for agriculture, soil remediation and climate mitigation. **2023**, 1-90 ○
- 3 Impact of wood-derived biochar on the hydrologic performance of bioretention media: Effects on aggregation, root growth, and water retention. **2023**, 339, 117864 ○
- 2 Physico-chemical characterization of walnut shell biochar from uncontrolled pyrolysis in a garden oven and surface modification by ex-situ chemical magnetization. ○
- 1 The impact of cyclic freezing and thawing (physical aging) on properties and polycyclic aromatic hydrocarbon content in biochars. **2023**, 138760 ○