

# C mineralization and microbial activity in four biochar treatments after incorporation

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Application of Biochar for Soil Biological Improvement. SSSA Special Publication Series, 0, , 145-173.	0.2	7
2	Physico-chemical properties and microbial responses in biochar-amended soils: Mechanisms and future directions. Agriculture, Ecosystems and Environment, 2015, 206, 46-59.	2.5	892
3	Application of Two Bioenergy Byproducts with Contrasting Carbon Availability to a Prairie Soil: Three-Year Crop Response and Changes in Soil Biological and Chemical Properties. Agronomy, 2016, 6, 13.	1.3	12
4	Influence of pig manure and its biochar on soil CO <sub>2</sub> emissions and soil enzymes. Ecological Engineering, 2016, 95, 19-24.	1.6	102
5	Biochar amendment altered the molecular-level composition of native soil organic matter in a temperate forest soil. Environmental Chemistry, 2016, 13, 854.	0.7	12
6	The microbiomes and metagenomes of forest biochars. Scientific Reports, 2016, 6, 26425.	1.6	43
7	Biochar Effects on Ecosystems. , 2016, , 55-77.		2
8	Biochar as a soil amendment. Soil Science Annual, 2016, 67, 151-157.	0.4	13
9	Molecular characterization of the thermally labile fraction of biochar by hydrolysis and pyrolysis-GC/MS. Journal of Analytical and Applied Pyrolysis, 2016, 121, 230-239.	2.6	32
10	Reduced carbon sequestration potential of biochar in acidic soil. Science of the Total Environment, 2016, 572, 129-137.	3.9	92
11	Biochemical cycling of nitrogen and phosphorus in biochar-amended soils. Soil Biology and Biochemistry, 2016, 103, 1-15.	4.2	362
12	Biochar decreased microbial metabolic quotient and shifted community composition four years after a single incorporation in a slightly acid rice paddy from southwest China. Science of the Total Environment, 2016, 571, 206-217.	3.9	236
13	Change in active microbial community structure, abundance and carbon cycling in an acid rice paddy soil with the addition of biochar. European Journal of Soil Science, 2016, 67, 857-867.	1.8	81
14	Chemically and biologically-mediated fertilizing value of manure-derived biochar. Science of the Total Environment, 2016, 550, 924-933.	3.9	79
15	Effects of biochar on soil microbial community composition and activity in drip-irrigated desert soil. European Journal of Soil Biology, 2016, 72, 27-34.	1.4	89
16	Biochar alters the soil microbiome and soil function: results of next-generation amplicon sequencing across Europe. GCB Bioenergy, 2017, 9, 591-612.	2.5	126
17	Soil CO <sub>2</sub> emission partitioning, bacterial community profile and gene expression of Nitrosomonas spp. and Nitrobacter spp. of a sandy soil amended with biochar and compost. Applied Soil Ecology, 2017, 112, 79-89.	2.1	21
18	Coupled biochar amendment and limited irrigation strategies do not affect a degraded soil food web in a maize agroecosystem, compared to the native grassland. GCB Bioenergy, 2017, 9, 1344-1355.	2.5	28

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19	Changes in microbial biomass and the metabolic quotient with biochar addition to agricultural soils: A Meta-analysis. <i>Agriculture, Ecosystems and Environment</i> , 2017, 239, 80-89.	2.5	143
20	Increasing molecular structural complexity and decreasing nitrogen availability depress the mineralization of organic matter in subtropical forest soils. <i>Soil Biology and Biochemistry</i> , 2017, 108, 91-100.	4.2	23
21	Wastewater grown microalgal biomass as inoculants for improving micronutrient availability in wheat. <i>Rhizosphere</i> , 2017, 3, 150-159.	1.4	42
22	Effects and mechanisms of biochar-microbe interactions in soil improvement and pollution remediation: A review. <i>Environmental Pollution</i> , 2017, 227, 98-115.	3.7	634
23	Critical comparison of the impact of biochar and wood ash on soil organic matter cycling and grassland productivity. <i>Soil Biology and Biochemistry</i> , 2017, 110, 134-142.	4.2	42
24	Three years of biochar amendment alters soil physiochemical properties and fungal community composition in a black soil of northeast China. <i>Soil Biology and Biochemistry</i> , 2017, 110, 56-67.	4.2	262
25	Influence of biochar on potential enzyme activities in two calcareous soils of contrasting texture. <i>Geoderma</i> , 2017, 308, 149-158.	2.3	79
26	Effects of olive pomace amendment on soil enzyme activities. <i>Applied Soil Ecology</i> , 2017, 119, 242-249.	2.1	35
27	Microbial functional diversity responses to 2 years since biochar application in silt-loam soils on the Loess Plateau. <i>Ecotoxicology and Environmental Safety</i> , 2017, 144, 578-584.	2.9	35
28	Effects of application of inhibitors and biochar to fertilizer on gaseous nitrogen emissions from an intensively managed wheat field. <i>Science of the Total Environment</i> , 2018, 628-629, 121-130.	3.9	72
29	Mechanisms of biochar reducing the bioaccumulation of PAHs in rice from soil: Degradation stimulation vs immobilization. <i>Chemosphere</i> , 2018, 196, 288-296.	4.2	53
30	Effect of in-situ aged and fresh biochar on soil hydraulic conditions and microbial C use under drought conditions. <i>Scientific Reports</i> , 2018, 8, 6852.	1.6	84
31	The impact of wood-derived biochar on the survival of <i>Trichoderma</i> spp. and growth of <i>Secale cereale</i> L. in sandy soil. <i>Biocontrol Science and Technology</i> , 2018, 28, 341-358.	0.5	5
32	Effect of different biochars amendment on soil biological indicators in a calcareous soil. <i>Environmental Science and Pollution Research</i> , 2018, 25, 14752-14761.	2.7	23
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34	Evaluation of benefits and risks associated with the agricultural use of organic wastes of pharmaceutical origin. <i>Science of the Total Environment</i> , 2018, 613-614, 773-782.	3.9	27
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38	Effects of rice-husk biochar on sand-based rootzone amendment and creeping bentgrass growth. <i>Urban Forestry and Urban Greening</i> , 2018, 35, 165-173.	2.3	8
39	Responses of soil microbial community structure changes and activities to biochar addition: A meta-analysis. <i>Science of the Total Environment</i> , 2018, 643, 926-935.	3.9	155
40	Activated biochar alters activities of carbon and nitrogen acquiring soil enzymes. <i>Pedobiologia</i> , 2018, 69, 1-10.	0.5	31
41	Improving the fertility of sandy soils in the temperate region by combined biochar and microbial inoculant treatments. <i>Archives of Agronomy and Soil Science</i> , 2019, 65, 44-57.	1.3	25
42	Partitioning biochar properties to elucidate their contributions to bacterial and fungal community composition of purple soil. <i>Science of the Total Environment</i> , 2019, 648, 1333-1341.	3.9	46
43	Biochar can mitigate methane emissions by improving methanotrophs for prolonged period in fertilized paddy soils. <i>Environmental Pollution</i> , 2019, 253, 1038-1046.	3.7	63
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49	Sewage sludge biochar alters root colonization of mycorrhizal fungi in a soil cultivated with corn. <i>European Journal of Soil Biology</i> , 2019, 93, 103092.	1.4	29
50	Biochar addition increases subsurface soil microbial biomass but has limited effects on soil CO <sub>2</sub> emissions in subtropical moso bamboo plantations. <i>Applied Soil Ecology</i> , 2019, 142, 155-165.	2.1	51
51	Response of microbial communities to biochar-amended soils: a critical review. <i>Biochar</i> , 2019, 1, 3-22.	6.2	419
52	Threeâ€Year Field Observation of Biocharâ€Mediated Changes in Soil Organic Carbon and Microbial Activity. <i>Journal of Environmental Quality</i> , 2019, 48, 717-726.	1.0	10
53	Responses of soil greenhouse gas emissions to different application rates of biochar in a subtropical Chinese chestnut plantation. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 168-179.	1.9	74
54	Temperature sensitivity of simulated soils with biochars produced at different temperatures. <i>Soil Research</i> , 2019, 57, 294.	0.6	3

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110	Biochar and organic substitution improved net ecosystem economic benefit in intensive vegetable production. <i>Biochar</i> , 2022, 4, .	6.2	15
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