

# Biochar: A Synthesis of Its Agronomic Impact beyond C

Journal of Environmental Quality

41, 973-989

DOI: [10.2134/jeq2011.0069](https://doi.org/10.2134/jeq2011.0069)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Green farming systems for the Southeast USA using manure-to-energy conversion platforms. Journal of Renewable and Sustainable Energy, 2012, 4, 041401.	0.8	11
2	Challenges and opportunities for mitigating nitrous oxide emissions from fertilized cropping systems. Frontiers in Ecology and the Environment, 2012, 10, 562-570.	1.9	220
3	Environmental Benefits of Biochar. Journal of Environmental Quality, 2012, 41, 967-972.	1.0	270
4	Influence of Feedstock and Pyrolysis Temperature of Biochar Amendments on Transport of <i>Escherichia coli</i> in Saturated and Unsaturated Soil. Environmental Science & Technology, 2012, 46, 8097-8105.	4.6	104
5	Abundant and Stable Char Residues in Soils: Implications for Soil Fertility and Carbon Sequestration. Environmental Science & Technology, 2012, 46, 9571-9576.	4.6	239
6	Impact of pyrolysis temperature and manure source on physicochemical characteristics of biochar. Bioresource Technology, 2012, 107, 419-428.	4.8	1,095
7	Biochar's role as an alternative N-fertilizer: ammonia capture. Plant and Soil, 2012, 350, 35-42.	1.8	242
8	Biochar's effect on crop productivity and the dependence on experimental conditions—a meta-analysis of literature data. Plant and Soil, 2013, 373, 583-594.	1.8	580
9	Responses of methane emissions and rice yield to applications of biochar and straw in a paddy field. Journal of Soils and Sediments, 2013, 13, 1450-1460.	1.5	126
10	Impact of biochar field aging on laboratory greenhouse gas production potentials. GCB Bioenergy, 2013, 5, 165-176.	2.5	198
11	Augmenting soil water storage using uncharred switchgrass and pyrolyzed biochars. Soil Use and Management, 2013, 29, 98-104.	2.6	27
12	Compositional and Thermal Evaluation of Lignocellulosic and Poultry Litter Chars via High and Low Temperature Pyrolysis. Bioenergy Research, 2013, 6, 114-130.	2.2	80
13	Comparison of biochar properties from biomass residues produced by slow pyrolysis at 500°C. Bioresource Technology, 2013, 148, 196-201.	4.8	471
14	Comparison of biochars derived from wood pellets and pelletized wheat straw as replacements for peat in potting substrates. Industrial Crops and Products, 2013, 51, 437-443.	2.5	154
15	Characteristics and nutrient values of biochars produced from giant reed at different temperatures. Bioresource Technology, 2013, 130, 463-471.	4.8	301
16	Biochar and its effects on plant productivity and nutrient cycling: a meta-analysis. GCB Bioenergy, 2013, 5, 202-214.	2.5	1,175
17	Comparisons of Biochar Properties from Wood Material and Crop Residues at Different Temperatures and Residence Times. Energy & Fuels, 2013, 27, 5890-5899.	2.5	202
18	Preparation and Modification of Carbon Blacks from Wastes. Advanced Materials Research, 0, 666, 111-121.	0.3	0

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19	Soil Biochar Quantification via Hyperspectral Unmixing. , 2013, , .		2
20	Characterization and influence of biochars on nitrous oxide emission from agricultural soil. Environmental Pollution, 2013, 174, 289-296.	3.7	156
21	Heterogeneity of biochar properties as a function of feedstock sources and production temperatures. Journal of Hazardous Materials, 2013, 256-257, 1-9.	6.5	287
22	Preliminary laboratory production and characterization of biochars from lignocellulosic municipal waste. Journal of Analytical and Applied Pyrolysis, 2013, 99, 71-78.	2.6	72
23	Towards a carbon-negative sustainable bio-based economy. Frontiers in Plant Science, 2013, 4, 174.	1.7	114
24	Heterogeneous global crop yield response to biochar: a meta-regression analysis. Environmental Research Letters, 2013, 8, 044049.	2.2	214
25	Biochar and Biosolids Increase Tree Growth and Improve Soil Quality for Urban Landscapes. Journal of Environmental Quality, 2013, 42, 1372-1385.	1.0	61
26	A Review of Biochar and Soil Nitrogen Dynamics. Agronomy, 2013, 3, 275-293.	1.3	663
27	Crop residue decomposition in Minnesota biochar-amended plots. Solid Earth, 2014, 5, 499-507.	1.2	21
28	Transport of <i>Escherichia coli</i> , <i>Salmonella typhimurium</i> , and Microspheres in Biochar-Amended Soils with Different Textures. Journal of Environmental Quality, 2014, 43, 371-388.	1.0	42
29	Pelletized Biochar as a Carrier for AM Fungi in the On-Farm System of Inoculum Production in Compost and Vermiculite Mixtures. Compost Science and Utilization, 2014, 22, 253-262.	1.2	17
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33	Midwest vision for sustainable fuel production. Biofuels, 2014, 5, 687-702.	1.4	17
34	Evaluation of PAH and Metal Contents of Different Biochars for Use in Climate Change Mitigation Systems. , 2014, , .		7
35	Biochar-based bioenergy and its environmental impact in Northwestern Ontario Canada: A review. Journal of Forestry Research, 2014, 25, 737-748.	1.7	22
36	Effects of Soil Amendments on the Abundance of a Parasitic Weed, Yellow Rattle ( <i>Rhinanthus</i> ) Tj ETQq1 1 0.784314 rgBT /Overloc	0.8	7

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38	Biochar amendment to coarse sandy subsoil improves root growth and increases water retention. <i>Soil Use and Management</i> , 2014, 30, 109-118.	2.6	230
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41	Soil biochar amendment in a nature restoration area: effects on plant productivity and community composition. <i>Ecological Applications</i> , 2014, 24, 1167-1177.	1.8	50
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43	Biochar application rate affects biological nitrogen fixation in red clover conditional on potassium availability. <i>Agriculture, Ecosystems and Environment</i> , 2014, 191, 83-91.	2.5	150
44	Carbon mineralization in two ultisols amended with different sources and particle sizes of pyrolyzed biochar. <i>Chemosphere</i> , 2014, 103, 313-321.	4.2	77
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92	Influence of biochar, mycorrhizal inoculation, and fertilizer rate on growth and flowering of <i>Pelargonium</i> ( <i>Pelargonium zonale</i> L.) plants. <i>Frontiers in Plant Science</i> , 2015, 6, 429.	1.7	60
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104	Nutrient Transport in Soils Amended with Biochar: A Transient Model with Two Stationary Phases and Intraparticle Diffusion. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 4123-4135.	1.8	12
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128	Characterization of chemical–physical, structural and morphological properties of biochars from biowastes produced at different temperatures. <i>Journal of Soils and Sediments</i> , 2015, 15, 792-804.	1.5	111
129	Characteristics and Applications of Biochar for Environmental Remediation: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 939-969.	6.6	362
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154	Production, characterization and evaluation of biochar from pod ( <i>Pisum sativum</i> ), leaf ( <i>Brassica</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock <i>Agriculture</i> , 2016, 5, 43-53.	2.0	142
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