

Special Issue

Biochar as Soil Amendment: Impact on Soil Properties and Sustainable Resource Management

Message from the Guest Editor

There is an imperative necessity of sustainable management for the increasing quantity of organic waste. In this sense, pyrolysis or carbonization (the combustion of biomass under low or no oxygen supply) offers a promising approach for managing carbon-rich wastes, such as sewage sludge, pulp and paper industry residues, or crop residues, and to create added value coproducts, such as biochar. The benefits of biochar as a soil ameliorant have been profusely studied, but the knowledge concerning its effects on soil properties and composition is still limited. Furthermore, the role of pyrolysis products within the concept of circular economy still has to be assessed. This need for information is increased by the great variability of composition and properties of the produced biochars and their dependence on pyrolysis conditions, feedstock nature, and additives. This Special Issue pursues to motivate discussion on this issue by bringing together scientists from the diverse fields of soil, applied pyrolysis, resources management, agronomy, and carbon dynamics.

Guest Editor

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Deadline for manuscript submissions

closed (15 September 2019)



Agronomy

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CiteScore 6.2



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