Special Issue

Impact of Biochar Additions on Soil Hydraulic Properties

Message from the Guest Editor

Biochar is a product of the thermal treatment of biomass and is widely used to improve soil health and productivity, soil carbon sequestration, and the adsorption of water and soil pollutants, as well as to promote agroecological sustainability. Biochar is produced from a wide range of feedstock sources and a variety of preparation and activation processes, resulting in complex physico-chemical properties that significantly affect soil hydraulic properties after field application; this may involve how to precisely control the type and nature of biochar in order to optimise its impact on soil hydraulic properties; how to balance the enhancement of soil water retention capacity by biochar with its potential negative impact on water infiltration and evaporation processes; how to adjust the amount and manner of biochar application for different types of soils to optimise the improvement of hydraulic properties; and how to further improve the adaptability and effectiveness of biochar to specific soils and environments by modifying it.

Guest Editor

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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