Special Issue

Impact of Biochar on Soil Ecosystems

Message from the Guest Editors

This Issue focuses on the deployment of organic amendments such as biochar to offer a sustainable solution to various ecosystem dysfunctions by restoring soil health and maintaining ecological sustainability. Biochar can maintain nutrient balance, improve water holding capacity, and reshap microbial communities. It can also adsorb heavy metals and other pollutants, reduce their bioavailability, mitigate environmental contamination, sequester carbon in soil and reduce greenhouse gas emissions.

To promote and harness biochar's potential to promote sustainable agriculture and environmental conservation, the Issue aims to explore the intricate mechanisms underlining biochar's application and different ecosystem components.

Topics include the effects of biochar on the following: Soil nutrient transformation; Soil enzyme activity and microbial diversity; Soil quality and soil health; Mitigating greenhouse gas emissions and carbon sequestration; Preparations, characterizations, and applications of various feedstock sources, along with their agricultural and environmental implications...

Guest Editors

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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