Special Issue

The Role of Biochar in the Sustainability of the Agroecological Environment

Message from the Guest Editors

Biochar is a carbon-rich material produced by the pyrolysis of biomass, which has become a hotspot in the fields of agriculture, energy, and the environment. Biochar application could strengthen soil fertility benefits, such as improvements in soil microbial activity, abatement of bulk density, amelioration of nutrient and water-holding capacity, and an increase in soil organic matter. In addition, biochar shows great affinity for pollutants in the environment and has been regarded as an effective agricultural management practice to mitigate the threats of climate change. More interestingly, biochar technology is considered to be in line with modern agricultural development concepts. That is, biochar might play important roles in the remediation of soil pollution, the protection of the agricultural environment, the maintenance of ecosystem balance, the promotion of a virtuous cycle in the agricultural environment, and sustainable development. This Special Issue seeks to increase our knowledge of novel advances concerning the application of biochar in the agroecological environment, covering biological, chemical, physical, biochemical, and environmental aspects.

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