Special Issue

Application of Biochar, Adsorbent and Nanomaterials in Wastewater Treatment

Message from the Guest Editor

Biochar is the carbon-rich material produced from organic feedstock under certain thermal combustion with limited oxygen. Recently, biochar has attracted increasing attention in environment pollution treatment because of its own advantages, such as a large surface area, rich carbon content, and abundance of functional groups, which depend on the different feedstocks and preparation methods. The papers of this Special Issue will mainly focus on three areas: (1) the processing and preparation methods of biochar and modification of biochar; (2) adsorbent and nanomaterial preparation from biochar and other bio-based materials; (3) application and mechanism studies of biochar and nanomaterial in wastewater treatment for the effective degradation or removal of heavy metals, toxic and harmful pollutants, etc. Although this Special Issue focuses on the preparation and utilization of biochar and nanomaterial in wastewater treatment, contributions are not limited to this topic. Other related topics such as new biochar-based materials and emerging applications of biochar will be relevant for this Special Issue.

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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