Special Issue

Adsorption of Pollutants from Water and Wastewater by Modified Biochar

Message from the Guest Editors

Biochar is an eco-friendly carbon-rich solid produced via the pyrolysis of biomass under oxygen-free conditions. In recent decades, biochar has attracted great attention following the removal of contaminants from aqueous solutions due to its low cost, affordability, versatility, large surface area, high stability, and environmental friendliness. The pristine biochar suffered from certain limitations, such as low adsorption capacity and narrow adsorption range, and some chemical and biochemical modifications are considered as some of most effective techniques to improve the adsorption capacity of biochar. Nowadays, different modification methods were explored to functionalize biochar with various physicochemical properties, which resulted in distinct adsorption effects, behaviors, and mechanisms of modified biochar on water pollutants. Research on biochar-modified adsorbents is however still an emerging field of study in these years. This Special Issue focuses on the adsorption application of physicochemically modified biochars in the removal of various contaminants from water and wastewater.

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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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