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The Evolution of Sorbents Based on Natural Materials for Wastewater Pollution Control

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Deadline for manuscript submissions:
closed (30 September 2023)

Message from the Guest Editors

Wastewater treatment involves the use of mechanical, physical, chemical, and biological processes to remove various chemical pollutants from wastewater. Biological wastewater treatment is a common and widely used treatment method. However, conventional wastewater treatment plants are not sufficiently efficient in removing pollutants that cannot be metabolized by microorganisms. Many of these substances are classified as contaminants of emerging concern, posing a significant risk to the aquatic environment or a hazard that is transmitted through them. Among the many methods for their removal, sorption appears to be one of the most promising, as it has proven to be simple, cost-effective, highly efficient, and versatile in dealing with chemically diverse compounds that require removal. To make it even more cost-effective and sustainable, sorbents based on natural materials of microbial, plant, animal, and mineral origin are being studied in detail.

This Special Issue is devoted to new research and recent contributions on the synthesis, characteristics, and application of sorbents from natural materials and their use in the removal of pollutants from wastewater.

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Message from the Editor-in-Chief

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.

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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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