Special Issue

Advanced Adsorbent-Based Technologies for Efficient Wastewater Treatment

Message from the Guest Editor

Recent advancements in wastewater treatment focus on innovative physical, chemical, and biological processes to enhance efficiency, minimize environmental impact, and recover valuable resources. Among these, adsorbent-based technologies have gained considerable attention due to their high removal efficiency, versatility, and potential for resource recovery. Understanding adsorption mechanisms, modifying materials to enhance adsorbent performance, optimizing usage conditions, and evaluating practical applicability in real-world scenarios are essential for advancing these adsorbent-based technologies. This Special Issue of *Water* aims to provide a platform for the publication of innovative and original research on adsorbent-based wastewater treatment technologies. Topics of interest include the design and synthesis of novel adsorbents, adsorption mechanisms, regeneration and reusability strategies, and the practical implementation of adsorption technologies in wastewater treatment. The development and application of these advanced approaches will contribute to sustainable water management and environmental protection.

Guest Editor

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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.

Editor-in-Chief

Dr. Jean-Luc PROBST
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