Special Issue

Research on Adsorption Technologies in Water Treatment

Message from the Guest Editor

Water scarcity and contamination necessitate innovative solutions for sustainable water treatment. Adsorption technologies, with their cost-effectiveness, versatility, and efficiency, have proven to be pivotal tools for removing contaminants such as potentially toxic metals and metalloids, organic pollutants, and emerging micropollutants. We aim to bridge gaps between material innovation, process optimization, and environmental sustainability, fostering interdisciplinary dialogue across chemistry, materials, environmental engineering, and industrial applications. Contributions should focus on the following topics: (1) novel adsorbent design (e.g., biochar composites, functionalized nanomaterials, MOFs); (2) mechanistic investigations of adsorption kinetics, isotherms, thermodynamics, and molecular-level interactions; (3) the selective or multifunctional removal of coexisting or low-concentration pollutants; (4) sustainable regeneration techniques and the reuse of adsorbents; (5) integration with hybrid systems. [...]

For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/water/special_issues/IO16LAAQZC

Guest Editor

Dr. Wei Wei
School of Environment, Nanjing Normal University, Nanjing 210023, China

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

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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
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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