Special Issue

Engineered Nanoporous Sorbents for Removing Emerging Pollutants from Aqueous Environments

Message from the Guest Editor

Emerging contaminants, referring to synthetic or naturally occurring chemicals, have recently been identified as potential threats to environmental safety or human health due to negative effects with persistence, low-concentration effects, bioaccumulation, and high-toxicity. Adsorption, as an efficient, easy-to-operate, and moderate-cost technique, is adopted in pollutant removal and water purification. Currently, researchers focus on novel sorbents exploration, including activated carbon, biochar, zeolites, metal–organic frameworks, covalent-organic framework, covalent organic polymers, and porous polymer networks via diversity engineering strategies to improve adsorption capacity, selectivity, regeneration potential, and environmental sustainability. This Special Issue aims to collect review and research articles devoted to the development of engineered nanoporous sorbents for emerging pollutants removal from water/wastewater. All topics dealing with novel sorbents design, advanced characterizations development, and in-depth probe of atomic-level based adsorption mechanisms from both experimental and theoretical perspectives are particularly welcome.

Guest Editor

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Deadline for manuscript submissions

closed (20 November 2025)

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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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