Special Issue

Cutting-Edge Separation Technologies for Water Reclamation and Reuse: Membranes, Nanomaterials, and Emerging Contaminant Control

Message from the Guest Editors

The Special Issue also welcomes contributions on electrospun nanofiber membranes, nanomaterial-enabled purification strategies, surface modification techniques to enhance antifouling and selectivity, and emerging hybrid systems integrating sensing, adsorption, catalysis, or electrochemical processes. Research that advances PFAS detection and removal, membrane durability, pilot-scale demonstrations, techno-economic analysis, and life cycle sustainability assessments is highly encouraged. Through this collection, we aim to highlight cutting-edge materials, novel system configurations, and transformative treatment concepts that can significantly improve the reliability and circularity of water reuse systems worldwide. We encourage scholars, industry practitioners, and interdisciplinary teams to contribute original research articles, reviews, and short communications that advance the science and practice of water reclamation.

Guest Editors

Dr. Sunith Madduri
Prof. Dr. Raghava R. Kommalapati
Dr. Prashan M. Rodrigo

Deadline for manuscript submissions

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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

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