

Special Issue

Membrane Technology for Desalination and Wastewater Treatment

Message from the Guest Editors

Membrane technology plays a crucial role in both desalination and wastewater treatment processes. Membrane processes rely on a selective permeable barrier to separate dissolved or suspended substances from wastewater. There are several types of membranes used in these applications, including reverse osmosis membranes, nanofiltration membranes, ultrafiltration membranes, microfiltration membranes, distillation membranes, and ion exchange membranes, among others. Physical, chemical, and biological methods are involved in wastewater treatment with desalination functions. This Special Issue welcomes original research papers, reviews, and tutorials on all aspects of the relationship between desalination and wastewater treatment. Innovative advancements that upgrade lab-based discovery to field-based applications will be of particular interest. Papers containing engineering principles that are integrated with knowledge from other disciplines are also welcome. Environmental materials and technologies are used for monitoring, sensing, and assessing environmental contaminants, and cleaner sustainable processes are encouraged.

Guest Editors

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Deadline for manuscript submissions

closed (20 May 2025)



Water

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Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/200043

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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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