

## Special Issue

# Research on Seawater Desalination and Water Treatment Using Membrane Materials

### Message from the Guest Editors

Ensuring access to clean and sustainable water resources is a global challenge, driving the need for advanced technologies in seawater desalination and water treatment. Membrane-based processes have emerged as a key solution due to their energy efficiency, scalability, and effectiveness in removing contaminants. However, challenges regarding membrane fouling, material durability, energy consumption, and so on persist, requiring innovative approaches in material science, process optimization, and system design.

This Special Issue aims to bring together researchers from material and environmental science and chemical engineering to address critical challenges in and advance the field of membrane-based water treatment. Contributions may include experimental studies, theoretical models, and technological innovations that pave the way for the development of high-performance membranes and sustainable, next-generation desalination and purification systems. Original research articles, reviews, and perspectives are all welcome.

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### Guest Editors

Prof. Dr. Ying Xu  
Dr. Lingling Zhong  
Dr. Lei Shi

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### Deadline for manuscript submissions

28 February 2026



## Processes

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