

## Special Issue

# Current Studies in Functionalized Ion Separation Membrane Materials

### Message from the Guest Editors

Ion separation has gained significant attention due to its critical roles in diverse fields such as ion resource extraction, environmental remediation, and energy storage. Despite considerable efforts to enhance membrane separation performance, there remains a strong demand for membranes that offer higher ion permeation rates and improved selectivity, as well as robust chemical stability, excellent fouling resistance, and long-term durability. The development of advanced membrane materials with tailored functionalities is therefore essential to achieve efficient and sustainable ion separation. This Special Issue is dedicated to showcasing the latest fundamental and technological advances in the rational design, synthesis, and application of functionalized membrane materials for ion separation. It will cover various membrane processes including nanofiltration (NF), forward osmosis (FO), electrodialysis (ED), diffusion dialysis (DD), and other emerging membrane-based separation technologies. Authors are invited to contribute original research articles, review articles, and short communications to this Special Issue.

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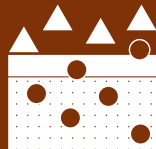
### Guest Editors

Dr. Cuijing Liu  
Dr. Miaolu He  
Dr. Mengyang Hu

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### Deadline for manuscript submissions

closed (31 March 2026)



## Membranes

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## About the Journal

### Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375). *Membranes* is an international, peer-reviewed open access journal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

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