

Special Issue

Innovative Membrane Materials and Systems for Electrodialysis and Electro-Driven Separations

Message from the Guest Editor

The need for sustainable and efficient electrochemical separation technologies is increasing across various disciplines, and ion exchange membranes (IEMs), which play a critical role in the selective and efficient transport of ions, represent promising materials with which to tackle this challenge. This Special Issue will focus on innovative research and new developments in the design of IEMs and their application in advanced electrochemical membrane systems, with an emphasis on technologies used in electrodialysis, reverse electrodialysis, electrolysis, and related operations. We invite contributions of original research papers, reviews, perspectives, and short communications on these topics. Submissions discussing novel solutions and fundamental advancements in the following broad application fields are highly encouraged:

- Desalination and water reuse;
- The food and beverage industry;
- Carbon capture and utilization;
- Resource recovery;
- Biotechnology and bioprocessing;
- The chemical and petrochemical industry;
- Energy and batteries;
- Agriculture and irrigation;
- Healthcare and medicine;
- Laboratory and analytical science.

We look forward to receiving your valuable contributions.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2025)



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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.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
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