Special Issue

Electrodialysis and Reverse Electrodialysis in Ion-Exchange Membrane Systems

Message from the Guest Editor

This Special Issue, “Electrodialysis and Reverse Electrodialysis in Ion-Exchange Membrane Systems,” aims to expand our understanding of conventional ED and RED applications by highlighting new challenges and interdisciplinary breakthroughs. We invite original contributions exploring hybrid configurations such as ED-RO, RED-FO, and RED-MFC, bioelectrochemical integrations, membrane lifecycle management, strategies for membrane durability and recyclability, and system optimization under dynamic or low-grade energy conditions. We particularly encourage submissions that include techno-economic evaluations, integration into circular water–energy frameworks, and the development of advanced membrane materials for ED/RED applications.

Grounded in innovation and sustainability, this Special Issue will present a fresh perspective on ED and RED, aiming to engage a wide scientific audience. Contributions should highlight original methodologies, tackle key environmental or operational challenges, and convey a clear editorial vision for advancing low-carbon, resource-efficient membrane technologies. We look forward to your valuable contributions to this Special Issue.

Guest Editor

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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 accessjournal 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

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