

Special Issue

Emerging Research in Electromembrane Processes

Message from the Guest Editors

Electrochemical technologies based on ion-exchange membranes have gained importance in several areas, such as the water/wastewater treatment, recovery of resources, energy production. The term “electromembrane processes” is often used to categorize these technologies. The most relevant are electrodialysis, electrodialysis reversal, electro-electrodialysis, membrane electrolysis, electrometathesis, electro-ion substitution, electrodialysis with bipolar membrane, and electrodeionization. Main differences between these technologies are the type of membranes and electrodes used, system layout, application of reverse current. To overcome the major limitations of these techniques (fouling, scaling, high energy demand) dedicated studies must be conducted. Some of the topics that should be addressed are the fabrication/modification of ion-exchange membranes, the development of new stack layouts, hybrid processes, mass transfer enhancement and fouling mitigation. This Special Issue is a knowledge platform gathering recent advances in the broad scope of electromembrane processes. Articles, case studies, reviews, and communications are welcome, and will be held in high regard.

Guest Editors

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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

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