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## Ion-Exchange Membranes and Processes (Volume II)

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Deadline for manuscript  
submissions:

**closed (28 February 2021)**

### Message from the Guest Editors

The aim of the Special Issue is to obtain a holistic picture of the latest advances in the synthesis of new ion exchange materials, the modification of known and experimental ion exchange membranes, the experimental and theoretical study of their characteristics, and the use of these membranes in various processes.

- Commercial, experimental, and modified ion exchange membranes (monopolar, bipolar, mosaic, composite, multilayer; organic, inorganic; homogeneous, heterogeneous, etc.);
- Their transport characteristics and structure-property relationships;
- The concentration polarization and coupled phenomena (water splitting, electroconvection, gravitational convection, etc.) that occur when an electric field is applied;
- The behavior of ion exchange membranes in various processes (dialysis, electro dialysis, electrolysis, capacitive deionization, fuel cells, microfluidic devices, bioreactors, potentiometric sensors, etc.);
- Ion exchange membrane fouling, scaling and ways to counter these phenomena;
- New methods of studying the properties of ion exchange membranes and membrane systems;
- New areas for the application of ion exchange membranes.



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# Special Issue



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## Editor-in-Chief

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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 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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