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Ionic Liquid-based Materials for Membrane Processes

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Message from the Guest Editors

Bearing in mind that membrane engineering, together with materials science, plays a key role in the development of high-performance membranes and more efficient separation technologies, this Special Issue is devoted to recent advances in the fabrication, characterization, and application of membranes based on ILs, poly(ionic liquid)s, or other organic or inorganic materials containing ILs within their structure. Topics of interest include supported ionic liquid membranes (SILMs), polymer/ionic liquid composites, mixed matrix membranes, ion gels, porous membranes, metal organic frameworks supporting ionic liquids (ILs@MOFs), and membrane contactors or hollow fibers. Special attention will be given to innovative material design strategies; their synthesis and characterization; the study of structure–performance relationships unveiling, for instance, the role of the IL-based material and morphology; as well as the development of new approaches for material processing and membrane fabrication.



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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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