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Recent Developments of Ionic Liquid Membranes: Preparation, Stability and Applications

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Message from the Guest Editors

The functionalized ILs are regarded as preferable due to their simplicity in regeneration, high absorption capacity, and selectivity for CO2. Ionic liquid membranes have also shown superior performances in water treatment, dye removal, heavy metal removal, electrochemistry, pharmaceuticals, and biomass conversion processes. In addition, PILMs offer a variety of benefits over ionic liquids (ILs), such as improved mechanical stability, chemical durability, spatial controllability, and processability.

This Special Issue welcomes discussions on the use and development of innovative ionic liquid and polyionic liquid membranes on a pilot and laboratory scale, as well as their industrial exploitation and the sustainability approach used in their preparation. The most recent advancements in the use of ionic liquid membranes (ILMs) for CO2 capture and water treatments, as well as dye and heavy metal removals, are cordially invited for submission to this Special Issue, including supported ILMs (SILMs), poly-ILMs (PILMs), polymer-IL composite membranes, and mixed-matrix membranes, with a focus on ILM contactors.













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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).

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