Special Issue

Ionic Liquid and Polymerized Ionic Liquids as Membranes for Clean Energy Generation and Industrial Gas Separations

Message from the Guest Editor

Ionic liquids (ILs) and polymer forms of ILs have emerged as highly tuneable and versatile materials for the design of advanced gas separation membranes for CO2 capture and other important gas separations in energy generation. This Special Issue of *Membranes* will focus on recent progress in the design of membranes based on ILs and poly(ILs) as well as other materials based on, or containing, ILs within their structure. Original research articles, communications and reviews are invited. **Keywords**

- Ionic liquid
- Poly(ionic liquid)
- Ionene
- Ionomer
- Carbon capture
- Natural gas treating
- Hydrogen separation
- Composites
- Nanostructured materials
- Membranes
- Polymer
- Mixed matrix
- Inorganic
- Organic
- Hybrid materials

Guest Editor

Prof. Dr. Jason Bara

Department of Chemical and Biological Engineering, University of Alabama, Tuscaloosa, AL 35487-0203, USA

Deadline for manuscript submissions

closed (31 July 2019)

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Membranes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
membranes@mdpi.com

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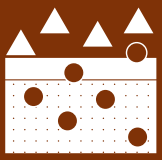

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About the Journal

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 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

Prof. Dr. Spas D. Kolev
School of Chemistry, The University of Melbourne, Melbourne, VIC 3010, Australia

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