Special Issue

Preparation, Optimization, and Applications of Proton Exchange Membranes

Message from the Guest Editors

This special issue is concentrated on the recent advances in proton exchange membrane, with an emphasis on the new preparation strategy, new material, and new structure, which play important roles in the energy power system. This issue provides a perfect opportunity for researchers to report on the topics of, but not limited to, new types of proton exchange membrane materials with hydrogen fuel cell, direct methanol fuel cell, high temperature fuel cell, water electrolysis, redox flow battery, acid recovery, etc. We welcome original research and critical reviews on proton exchange membranes and related technologies. topics including, but not limited to:

- New proton exchange membrane synthesis and their applications.
- Unique class of membrane additives/modifiers with proton conduction enhanced ability.
- Hybrid and composite proton exchange membrane materials for fuel cell, high temperature fuel cell, water electrolysis, redox flow battery, acid recovery, and related applications.
- Innovative integration approaches of proton exchange membrane systems in possible industrial fields.
- Other novel aspects related to proton exchange membrane and membrane-based proton transport technology.

Guest Editors

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Deadline for manuscript submissions

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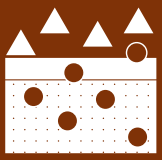

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About the Journal

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
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