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Membranes for Electrolysis, Fuel Cells and Batteries

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Deadline for manuscript
submissions:

closed (31 August 2019)

Message from the Guest Editors

Research regarding the efficient and clean electrochemical conversion and storage of energy is continuously increasing. Electrolyzers, fuel cells and batteries have the potential to convert/store energy with a high efficiency and without contaminant emissions. A fundamental element common to these devices is the membrane, acting as electrolyte or separator, that plays a key role in their performance. Great progresses have been obtained in the past decades. However, membranes still present several drawbacks regarding ion conductivity, stability at high temperature and durability. This Special Issue is intended to cover the most recent progresses in membranes for electrochemical devices, such as electrolyzers, fuel cells and batteries. This Special Issue aims to gain insights in the development of highly efficient and durable membranes.

Topics of Interests:

- electrolyzers
- fuel cells
- metal-air batteries
- redox-flow batteries
- lithium-ion/sodium-ion batteries
- polymer electrolyte membranes
- proton exchange electrolytes
- anion exchange electrolytes
- polymer gel based membranes
- ceramic-glass and polymer solid ion conductors
- membrane degradation



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Special Issue



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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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