Special Issue

Bipolar Membranes: New Trends and Prospects

Message from the Guest Editors

Bipolar membranes (BPMs) are a category of ion exchange membranes. They can uniquely provide disparate pH conditions on two sides of a thin film (10–100 μm) without crossover. This opens up a range of possible applications, such as water electrolyzers and fuel cells. Specifically for water electrolysis, the lack of electrolyte crossover means that each electrode half-reaction can operate at favorable pH conditions. This also means the possibility of using non-fluoridated chemistries since the BPMs and electrodes are subjected to less harsh environments. This translates to lowered energy costs for electrolyzer operation and a pathway to inexpensive green hydrogen.

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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.

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