

Special Issue

Proton-Conducting Membranes

Message from the Guest Editors

Modern challenges have led to the trend of decarbonization—the development of the hydrogen energy industry during the upcoming decades and phasing out of traditional types of fuel. Proton-conducting membranes, such as Nafion® and its analogues, already demonstrated an excellent performance in the process of converting hydrogen fuel into energy in fuel cells. Further investigations require the development of membranes with enhanced conducting properties, sustainability for long-term operations and a low cost, so that these membranes can become economically effective in the “green” energy technologies of the future. This Special Issue aims to contribute the latest advances in high-performance, proton-conducting membrane investigations, understanding their structure and properties and finding ways to use proton exchange membranes for hydrogen fuel cells in the future.

Guest Editors

Dr. Yuri Kulvelis

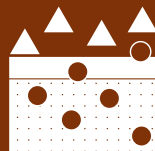
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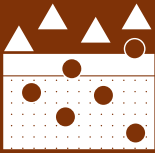
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Message from the Editor-in-Chief

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.

Editor-in-Chief

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