

## Special Issue

# Tailored Ion Exchange Membranes for H<sub>2</sub> Production and Fuel Cells

### Message from the Guest Editors

This Special Issue, seeks to address the current challenges and drive innovation in the field of ion exchange membranes for hydrogen technologies. We invite contributions in the form of review articles, critical reviews, perspectives, communications, and original research articles on the following topics:

- Design and synthesis of novel membranes: development of non-fluorinated membranes with high-performance results.
- New polymers, as base materials of ion exchange membranes.
- Characterization, modeling, and simulation: advanced techniques for assessing membrane performance and understanding transport mechanisms.
- Proton exchange, anion exchange, and bipolar membranes: exploration of new membranes for fuel cells and electrolysis.
- Chlorine-resistant membranes: development of durable materials membranes for seawater electrolysis.
- Composite membranes: nanofillers and other inorganic and modified carbons.
- Grafted and blended membranes.

### Guest Editors

Dr. Liliana Diaz

Dr. Elvin Aliyev

Dr. Graciela C. Abuin

### Deadline for manuscript submissions

closed (31 May 2025)



## Membranes

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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 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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### Editor-in-Chief

Prof. Dr. Spas D. Kolev  
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