

Special Issue

Catalyst Design and Stability in Membrane-Based Electrolysis

Message from the Guest Editor

This Special Issue aims to highlight advances in both catalyst and membrane development, with particular emphasis on strategies that link fundamental molecular insights to practical device performance. We welcome original research articles, reviews, and short communications on topics including the following:

- Novel strategies for catalyst and membrane design and integration;
- Operando and in situ characterization of catalyst-membrane interfaces;
- Mechanistic insights into activity, selectivity, transport, and degradation processes;
- Stability assessments and mitigation strategies for catalysts and membranes;
- System-level studies addressing energy efficiency, durability, scalability, and techno-economic feasibility.

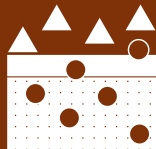
Guest Editor

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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.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
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