

Special Issue

Synthesis and Characterization of Membrane Catalysts

Message from the Guest Editor

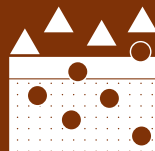
In this Special Issue, we invite original research articles that encompass the utilization of membrane catalysts in (but not limited to) the fields of fuel cells, membrane reactors and gas purification. We invite articles that deal with the relevant applications of catalytic membranes along with scientific methodologies to synthesize and characterize them. The aim of this Special Issue entitled “Synthesis and Characterization of Membrane Catalysts” is to compile various research works on synthetic methodologies related to of membrane catalysts and share the recent ideas and developments of catalytic membranes in separations technology, applied energy storage and energy generating systems. Some of these areas include proton and anion exchange membrane fuel cells, redox flow batteries, lithium (and other metals) batteries, and water electrolysis. The major focus will be on challenges in synthesizing stable catalyst membranes that can operate for more than 1000 hours (a crucial step stone for the scaling up of technology).

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2023)



Membranes

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Impact Factor 3.6
CiteScore 7.9
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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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