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Metallic Membrane—Future Prospect, Research Trends and Applicability

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Message from the Guest Editors

Dear Colleagues,

Metallic membranes are typically considered for many civil and industrial applications, particularly regarding nuclear fusion reactors and a wide variety of chemical industry processes. In both cases, research focuses on new synthesis strategies and their implementation level at the industrial scale, thus ensuring adequate mechanical resistance and stable performance under real operating conditions. New materials and membrane configurations are conceived to reduce supply and manufacturing costs, whilst increasing the reliability and lifetime of final use devices and also considering environmental concerns.

Under this general perspective, the scope of the current Special Issue is to provide new insights on both novel technologies and system optimization to promote the use of metallic membranes in multiple cases, including both laboratory- and industrial-scale applications. Their applications cover the chemical and energy industries, with a special mention to developing promising nuclear fusion reactors. The submission of original research articles, reviews, industrial cases, and short communications is welcomed and encouraged.



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Special Issue



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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.

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