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From Novel Material Concept to Scalable Membrane Product for Gas Separation

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Deadline for manuscript
submissions:

closed (31 October 2021)



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Message from the Guest Editors

Dear Colleagues,

We encourage researchers to submit manuscripts that demonstrate the transfer from a material concept into an actual membrane with proven gas separation performance.

There is no preferred membrane configuration. It can be, but not limited to, an integrally skinned asymmetric polymeric membrane, a composite membrane. Other concepts could be a mixed matrix membrane with a thin separation layer. Topics include, but not limited to:

- Advances in the membrane fabrication process and approach to obtain scalability
- Novel approaches for processing materials as membranes for gas separation applications
- Mixed gas permeation behavior at elevated temperatures and/or pressures
- The effect of contaminants on the performance of the developed membrane
- Post-treatment methods to improve the separation performance and/or chemical and thermal stability of the developed membranes
- Applications such as N₂-enrichment, biogas upgrading, natural gas treatment, H₂-recovery or purification, olefin/paraffin separation or CO₂-capture



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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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