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Advanced Membranes for Carbon Capture 2021

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Deadline for manuscript submissions:

closed (20 January 2022)

Message from the Guest Editors

We cordially invite you to submit your research work or review article to this Special Issue entitled "Advanced membranes for carbon capture 2021." Our Special Issue hopes to publish recent advances in materials and processes (emerging or with a high Technology Readiness Level (TRL)) for membrane-based carbon capture. The topics of interests include, but not limited to, novel membrane materials (polymers, ceramics, metallics, metal-organic frameworks, 2-D materials, and mixed matrix materials) for various capture schemes (such as postcombustion capture, pre-combustion capture, carbon capture from industrial sources, direct air capture, etc.), emerging processes or hybrid processes based on membranes, techno-economic analysis, preparation and characterization of thin-film composite membranes or hollow fiber membranes, etc.

Keywords

- Membranes
- Carbon capture
- Polymer membranes
- Ceramic membranes
- Metallic membranes
- Metal-organic frameworks
- 2-D materials
- Mixed matrix materials
- Techno-economic analysis
- Process design













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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 accessjournal 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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