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## Separation Processes in Membranes: Design, Synthesis and Applications

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### Message from the Guest Editors

Membrane science and technology have significantly contributed to many industrial as well as laboratory applications, as they provide clean technologies with facile operation, flexibility of design-efficient energy utilization, and decreased production costs. It is always imperative to augment the efficiency of separation processes consisting of membrane technology in chemical, energy, and environmental processes, such as gas separation for large-scale energy and the oil and gas industry (natural gas purification, CO<sub>2</sub> separation, air separation, hydrocarbons separations in the petrochemical industry, etc.), chemical separations, and water desalination and purification. The focus of this Special Issue is on highlighting recent innovations in membrane separation from synthesis to application. Therefore, we welcome various formats, including original contributions and review articles on membrane separation technology.

- Polymeric membranes
- Inorganic membranes
- Composite membranes
- Hybrid membranes
- Chemical separation
- Gas separation
- Oil/water separation
- Desalination
- CO<sub>2</sub> capture
- Energy storage/conversion
- Simulation
- Fabrication



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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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