Special Issue

Development and Application of Membrane Separation Processes, 2nd Edition

Message from the Guest Editor

Membrane technology plays an significant role in the separation of liquid and gas mixtures. In recent years, gas membrane separation (hydrogen and VOCs recovery, helium enrichment, natural gas decarbonization and carbon capture), electrochemically driven membrane processes (electrochemical separation), temperature-difference-driven membrane processes (membrane distillation), high-pressure membrane processes (nanofiltration and reverse osmosis) and dialysis-driven membrane processes (forward osmosis) have played a crucial role in the fields of process intensification and energy efficiency. Among them, the membrane system is the ultimate embodiment of the industrialization of the membrane separation process due to its advantageous characteristics: easy coupling, a small footprint, modularization and simple control. When aiming to address the scientific laws behind the membrane separation process, systematic research on the membrane separation process is of great significance for the development of membrane technology in the future.

Guest Editor

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Deadline for manuscript submissions

closed (20 December 2023)



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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.

Editor-in-Chief

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