Special Issue

Mixed-Matrix Membranes

Message from the Guest Editors

Mixed-matrix membranes (MMMs), prepared by incorporating rationally designed porous materials into a polymer matrix, represent one of the most innovative and prolific fields in the realm of membrane-based separation. The merits of MMMs include enhancement of mechanical strength, separation performance, operation stability, and processability. These features provide a platform with a high potential to advance the current membrane-based separation technologies. However, the study of strategies and methods for developing defect-free and scalable MMMs is still ongoing. This Special Issue on "Mixed-Matrix Membranes" in the journal *Membranes* is motivated by the enthusiastic demand from researchers across the world operating in this growing branch of research.

- mixed-matrix membranes (MMMs)
- functional polymers
- porous materials
- metal-organic frameworks (MOFs)
- molecular transport
- gas separation
- water treatment
- ion separation
- interfacial engineering
- modeling
- membrane fabrication
- thin-film composites
- chemical modification
- compatibility
- stability

Guest Editors

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Deadline for manuscript submissions

closed (31 March 2021)

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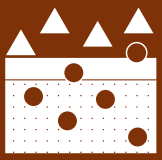

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About the Journal

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.

Editor-in-Chief

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