



an Open Access Journal by MDPI

Mixed-Matrix Membranes

Guest Editors:

Prof. Dr. Won Seok Chi

Dr. Gang Han

Dr. Moon Joo Lee

Dr. Francesco Maria Benedetti

Deadline for manuscript
submissions:

closed (31 March 2021)

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



mdpi.com/si/47277

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Spas D. Kolev

School of Chemistry, The
University of Melbourne,
Melbourne, VIC 3010, Australia

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (Polymer Science) / CiteScore - Q1 (Chemical Engineering (miscellaneous))

Contact Us

Membranes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/membranes
membranes@mdpi.com
[X@Membranes_MDPI](https://twitter.com/Membranes_MDPI)