



Hydrophobic Membranes

Guest Editors:

Dr. Chunrui Wu

State Key Laboratory of
Separation Membranes and
Membrane Processes, School of
Material Science and
Engineering, Tiangong University,
Tianjin 300387, China

Dr. Le Han

College of Environment and
Ecology, Chongqing University,
Chongqing 400045, China

Deadline for manuscript
submissions:

closed (30 September 2023)

Message from the Guest Editors

Dear Colleagues,

The selective transfer of volatile components in mixed matrices makes hydrophobic membranes preferable in gas separation, transmembrane chemical absorption, pervaporation, membrane distillation, and other applications. However, the fouling issues and trade-off effect between selectivity and permeability are inevitable for hydrophobic membranes, same to the other membrane types. Moreover, wetting of hydrophobic membranes and the induced doubt on process endurance/efficiency/technology readiness level are all barriers against its further development. Consequently, there exists a great gap between laboratory research and industrial applications for hydrophobic membranes, which requires numerous effort to critically discuss the current status and further potentials for hydrophobic membrane.

This Special Issue aims to collect the recent contribution, state-of-the-art progress, and novel perspective about hydrophobic membranes.





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)