

Special Issue

Fabrication and Performance of Metal–Organic Framework Membranes

Message from the Guest Editor

Metal–organic frameworks (MOFs) have emerged as a versatile class of crystalline porous materials with tunable structures, high surface areas, and tailorable chemical functionalities. Over the past decade, MOF-based membranes have attracted growing attention for applications in gas separation, liquid purification, pervaporation, and emerging fields such as electrochemical energy systems. Despite remarkable progress, key challenges remain in scalable fabrication, defect control, structural stability, and integration into practical modules. This Special Issue aims to bring together recent advances in the design, fabrication, characterization, and performance evaluation of MOF membranes. It will provide a platform for researchers to showcase fundamental insights, innovative processing strategies, and application-oriented studies that push the boundaries of MOF membrane science and technology.

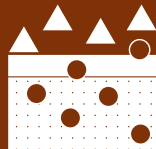
Guest Editor

Dr. Yunchuan Pu

Department of Chemical and Biomolecular Engineering, National University of Singapore, 4 Engineering Drive 4, Singapore 117585, Singapore

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
membranes@mdpi.com

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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 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.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
School of Chemistry, The University of Melbourne, Melbourne, VIC
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