Special Issue

Recent Developments in Metal-Organic Framework Membranes

Message from the Guest Editors

Metal–organic frameworks (MOFs), a class of highly porous crystalline materials with an ordered porous topology and tunable chemical functionality, have demonstrated great potential as competent membrane materials. MOF membranes have shown great promise in environmental applications. Additionally, advanced characterization techniques and computational modeling have provided deeper insights into the structure–property relationships of MOF membranes, facilitating their rational design for specific applications. Authors are invited to submit original articles and reviews, addressing recent developments in MOF membranes. The contributions may concern (i) advanced MOF materials in membrane-based separation, (ii) the structural manipulation of MOF membranes, (iii) strategies and techniques for the fabrication of MOF membranes, (iv) the modeling, simulation, and characterization of MOF membranes, (v) applications and scale-up of MOF membranes for various separation processes.

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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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