# Special Issue

# Metal-Organic Framework-Based Membranes for Applications in Molecular Separation

## Message from the Guest Editors

Metal–Organic Frameworks (MOFs) are a new class of porous solid materials which have a variety of industrial applications. In recent years, a number of excellent MOF membranes have been successfully prepared and widely used in the fields of separation, catalysis, optics, sensing, and metal protection. This Special Issue aims to highlight recent research regarding novel membranes with MOFs, including the preparation and incorporation of MOFs in membranes; fouling control strategies of MOF-integrated membranes; and the characterization of membranes in terms of physio-chemical properties, separation performance, and durability. Original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: membrane separation; desalination; wastewater treatment; gas separation; gas purification; metal–organic frameworks; anti-fouling; MOF membranes; thin-film nanocomposites; and mixed matrix membranes.

## Guest Editors

Dr. Fan Feng

Prof. Dr. Jie Gao

Prof. Dr. Qipeng Zhao

## Deadline for manuscript submissions

15 November 2025

**Membranes**

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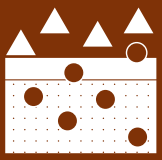

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## About the Journal

### 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

Prof. Dr. Spas D. Kolev
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