

## Special Issue

# Preparation, Characterization, and Application of Advanced Separation Membrane Materials

### Message from the Guest Editors

Very recently, crystalline materials such as metal-organic frameworks (MOFs) and covalent organic frameworks (COFs) with large surface area, diverse functionality, and excellent chemical stability have been regarded as an emerging member in the family of advanced separation membrane materials. The studies on emerging advanced separation membrane materials are still in the infant stage. Large-scale production of advanced separation membrane materials with high quality and controlled structure has yet to be realized for ultimate industrialization. Furthermore, the precise manipulation of thicknesses, functionalities, topologies, and crystal phases of advanced separation membrane materials as well as advanced characterization are still of challenge. The commercialization of advanced separation membrane materials in daily life will be a major milestone and we still need to contribute nonstop efforts to achieve this goal.

This special issue aims to provide the recent advances in the field of advanced separation membrane materials. We strongly believe that this issue will benefit researchers in diverse fields. For more details, please check the special issue website.

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### Guest Editors

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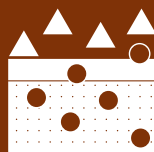
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### Deadline for manuscript submissions

30 September 2025



## Membranes

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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.

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### Editor-in-Chief

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