

## Special Issue

# Advanced Polymer Materials for Membrane Separation

### Message from the Guest Editors

In the field of Advanced Polymer Materials for Membrane Separation, researchers are exploring various innovative approaches to enhance membrane performance, particularly in applications such as gas separation, water treatment, organic solvent separation, and ion exchange/transport in fuel cells and lithium–sulfur batteries. Here is a summary of some key points:

- Two-Dimensional Polymer Nanosheets
- Mixed Matrix Membranes (MMMs)
- Polymer Metal–Organic Framework (polyMOF) Nanoparticles
- Organic Solvent Separation Membranes
- Porous Organic Polymers (POPs)

These research advancements indicate that advanced polymer materials have broad application prospects in membrane separation technology, especially in improving separation efficiency, reducing energy consumption, and minimizing environmental impact. With continuous advancements in material science and manufacturing technologies, it is anticipated that more innovative membrane materials will be developed to meet industrial and environmental separation needs in the future.

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### Guest Editors

Dr. Zhisheng Fu

Department of Polymer Science and Engineering, Zhejiang University, Hangzhou 310058, China

Dr. Chuanjie Fang

Department of Polymer Science and Engineering, Zhejiang University, Hangzhou 310058, China

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### Deadline for manuscript submissions

20 June 2025



## Separations

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MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[separations@mdpi.com](mailto:separations@mdpi.com)

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### Editor-in-Chief

Prof. Dr. Frank L. Dorman  
Department of Chemistry, Dartmouth College, Hanover, NH 03755,  
USA

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