

## Special Issue

# Functional Polymer Membranes for a Sustainable Future: Fabrication, Characterization, and Applications

### Message from the Guest Editors

We are thrilled to invite you to submit your work to this Special Issue on “Functional Polymer Membranes for a Sustainable Future: Fabrication, Characterization, and Applications”. Polymer membrane technology has attracted tremendous attention in academia and industry mainly due to its low energy cost, robustness, and feasibility. Recent progress in the synthesis of functional polymers with tailored properties as well as new membrane fabrication processes has further promoted advancements in this field. Functional polymer membranes hold the key in the pursuit of a sustainable future because of their remarkable performance in several essential applications, including water purification, desalination, gas separation, and energy storage. This Special Issue seeks original research papers and reviews on relevant topics including but not limited to the synthesis of functional polymer membrane materials, membrane fabrication and modification, and membrane applications. Simulation studies as well as industrial case studies are also welcome.

### Guest Editors

Dr. Hongbo Feng

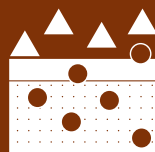
Pritzker School of Molecular Engineering, University of Chicago, 5640 South Ellis Ave., Chicago, IL 60637, USA

Prof. Dr. Xiuhua Liu

College of Chemistry and Chemical Engineering, Henan University, Kaifeng 475004, China

### Deadline for manuscript submissions

closed (30 April 2022)



## Membranes

an Open Access Journal  
by MDPI

Impact Factor 3.6  
CiteScore 7.9  
Indexed in PubMed



[mdpi.com/si/104278](https://mdpi.com/si/104278)

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

[mdpi.com/journal/  
membranes](https://mdpi.com/journal/membranes)





# Membranes

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.6  
CiteScore 7.9  
Indexed in PubMed



[mdpi.com/journal/  
membranes](https://mdpi.com/journal/membranes)



## 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  
3010, Australia

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Polymer Science) / CiteScore - Q1 (Chemical Engineering (miscellaneous))