

## Special Issue

# Composite Membranes: Synthesis and Characterization

### Message from the Guest Editors

Over the past decade, a vast effort has been dedicated toward developing and advancing novel membrane materials for the treatment of gases and liquids. Composite polymeric membranes are commonly used for the energy- and cost-efficient water and gas treatment processes. These membranes have experienced significant improvements in integrating permeation advantages including high permselectivity and fouling resistivity with thermomechanical and chemical stability. In addition, modifying the preparation methodologies, such as blending with copolymers, as well as fabricating thin film composite structures, have shown a significant promise for further improvement of composite membranes. The goal of the present Special Issue is to provide a comprehensive overview of recent advances in synthesis and characterization of composite membranes for desalination, wastewater treatment, and gas separation processes. It announces a valuable opportunity to report both the original papers and critical reviews on synthesis and characterization of novel composite membranes.

### Guest Editors

Dr. Mohtada Sadrzadeh

Department of Mechanical Engineering, University of Alberta,  
Edmonton, AB T6G 2R3, Canada

Dr. Behnam Khorshidi

Department of Mechanical Engineering, University of Alberta,  
Edmonton, AB T6G 2R3, Canada

### Deadline for manuscript submissions

closed (31 August 2018)



## Membranes

an Open Access Journal  
by MDPI

Impact Factor 3.6  
CiteScore 7.9  
Indexed in PubMed



[mdpi.com/si/12716](https://mdpi.com/si/12716)

*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))