

## Special Issue

# Modeling of Membrane Formation

### Message from the Guest Editor

The final membrane morphology depends on many factors, including initial formulation, phase inversion process, exchange rates during the phase separation...Consequently, predicting the final membrane morphology remains very tricky. During the last decades, modeling efforts have been done to better understand the relationship between the operating parameters (formulation, process parameters) and the membrane morphology. More recently, promising efforts have been made in the modeling of the phase inversion dynamics itself at molecular and meso-scale: Molecular Dynamics, Dissipative Particle Dynamics, Lattice Monte Carlo, and Phase-field methods. This new area of modeling gives more opportunity to predict the whole phase inversion process, and hence the final morphology.

So, I am pleased to invite you to submit a paper to the special issue “Modeling of Membrane Formation”, which covers mass and heat transfers, molecular and meso-scale modeling methods. Authors are therefore invited to submit their latest results; both original papers and reviews are welcome.

---

### Guest Editor

Prof. Denis Bouyer  
University of Montpellier, 34000 Montpellier, France

---

### Deadline for manuscript submissions

closed (15 August 2019)



## Membranes

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.6  
CiteScore 7.9  
Indexed in PubMed



[mdpi.com/si/17217](https://mdpi.com/si/17217)

*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))