



## Modeling, Simulation, and Optimization of Membrane Processes

Guest Editor:

**Prof. Dr. Mingheng Li**

Department of Chemical and  
Materials Engineering, California  
State Polytechnic University,  
Pomona, CA 91768, USA

Deadline for manuscript  
submissions:

**closed (25 January 2023)**

### Message from the Guest Editor

Membrane separations are incorporated in applications including water desalination, gas purification, power generation, and a variety of others. A fundamental understanding of the complex transport phenomena (e.g., fluid flow and mass transport mechanisms) and system-level behavior are pivotal to enhance the performance of membrane processes.

The purpose of this Special Issue is to assemble a collection of current research in modeling, simulation, analysis, design, control and optimization of membrane processes.

I look forward to receiving your valued contributions to this Special Issue.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Frank L. Dorman

Department of Chemistry,  
Dartmouth College, Hanover, NH  
03755, USA

## Message from the Editor-in-Chief

*Separations* offers the scientific community a high-quality, open-access journal option with rapid time-to-publication without any sacrifice of a rigorous peer-review process. We invite contributions ranging from fundamental characterization and instrumentation development through application of techniques to shed light on a broad spectrum of separation science needs. Since inception, *Separations*, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [CAPlus / SciFinder](#), and [other databases](#).

**Rapid Publication:** manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).

## Contact Us

---

*Separations* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/separations](http://mdpi.com/journal/separations)  
[separations@mdpi.com](mailto:separations@mdpi.com)  
[X@Sep\\_MDPI](#)