

Special Issue

Numerical Modeling and Performance Prediction of Nanofiltration

Message from the Guest Editor

Nanofiltration is presently applied worldwide for seawater desalination, wastewater treatment, and water reclamation, for ultrapure water production, and in process industry niches such as organic solvent nanofiltration, pharmaceutical and biological applications, etc. The design, optimization, and scale-up of such a process still require the development of good predictive models. Through modeling, we gain a deeper understanding of main coupled phenomena while being able to predict performance more effectively. Advances in predictive model development allow determining the optimal process parameters and operating conditions in order to reach a high flux and high rejection rates with a minimal energy requirement. This Special Issue seeks contributions to assess the state-of-the-art and future developments in the field of development of predictive models. Topics include but are not limited to mathematical modeling, new modeling approaches, artificial intelligence, transport models, and coupling phenomena. Authors are invited to submit their latest results; both original papers and reviews are welcome.

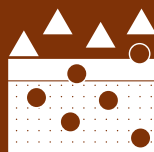
Guest Editor

Prof. Dr. Pierrette Guichardon

Aix Marseille Univ, CNRS, Centrale Marseille, M2P2, 38 rue Joliot-Curie, 13451 Marseilles, France

Deadline for manuscript submissions

closed (15 September 2020)



Membranes

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.1
Indexed in PubMed

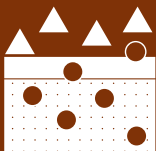


mdpi.com/si/37793

Membranes
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
membranes@mdpi.com

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





Membranes

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.1
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 (Chemistry, Physical) / CiteScore - Q2 (Chemical Engineering (miscellaneous))