



Membrane Processes Modeling and Optimization

Guest Editors:

Dr. Vitaly Gitis

Faculty of Engineering Sciences,
Ben-Gurion University of the
Negev, Beer-Sheva 8410501,
Israel

Dr. Sungku Heo

Department of Environmental
Science, Kyung Hee University,
Yongin-Si 446-701, Republic of
Korea

Deadline for manuscript
submissions:

closed (29 February 2024)

Message from the Guest Editors

Membrane filtration, a well-established separation technology, has been applied in various domains such as biotechnology, pharmaceutical, food production, petroleum, desalination, and water facility industries. With the advent of membrane applications, it is clear that more industries will require advanced membrane process technologies for multiple purposes resulting in environmental and economic benefits. To date, membrane process technologies have been developed through the experimental approaches; however, computational approaches, including computer-aided modeling, optimization, process monitoring, and artificial intelligence (AI), are expected to accelerate the advancement of membrane technologies from membrane material design to the decision making surrounding membrane replacement.

This Special Issue of the journal Membranes, “Membrane Processes Modeling and Optimization”, aims to combine the applications of computing and systems technology with membrane process problems.





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Editor-in-Chief

Prof. Dr. Spas D. Kolev

School of Chemistry, The
University of Melbourne,
Melbourne, VIC 3010, Australia

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.

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Membranes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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