



Ion Transport in Membranes and Membrane Systems: Modelling and Experiment

Guest Editor:

Prof. Dr. Victor V. Nikonenko

Department of Physical
Chemistry, Kuban State
University, 149 Stavropolskaya
st., 350040 Krasnodar, Russia

Deadline for manuscript
submissions:

closed (15 April 2023)

Message from the Guest Editor

The aim of this issue is to take a step toward a better understanding of ion transport in membranes and membrane systems. All kinds of membranes are of interest: ion-exchange membranes, membranes for reverse osmosis, ultrafiltration, and other electro- and pressure-driven processes, including micro- and nanofluidic systems. Diffusion, migration, and convection, coupling of ion transport with chemical reactions, and concentration polarization are within the scope of the issue. Steady-state and nonstationary models with 1D, 2D, and 3D geometry are welcome.

Keywords:

- ion transport
- membrane
- modeling
- simulation
- experiment





an Open Access Journal by MDPI

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.

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 - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

Membranes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/membranes
membranes@mdpi.com
X@Membranes_MDPI