Special Issue

Electrical Phenomena in Biological and Biomimetic Membranes

Message from the Guest Editors

Research in the field of electrical membrane phenomena has been conducted at a high level of activity for several years, covering an extremely diverse range of topics. Nevertheless, since electrical interactions between biomembrane components underlie many membrane properties and functions, the main focus of this forthcoming Special Issue is to increase our knowledge of the electrical phenomena in biological membranes by assembling state-of-the-art research articles and reviews on the topic. **Keywords:**

- Biological cells and model systems
- Liposomes
- Lipid mono- and bilayers
- Biologically active compounds
- Electrokinetic phenomena
- Electrical double layers
- Surface characteristics of membranes
- Electrochemical methods
- Membrane fusion
- Electrical transport measurements
- Electroporation

Guest Editors

Dr. Joanna Kotyńska

Laboratory of Bioelectrochemistry, Department of Physical Chemistry, Faculty of Chemistry, University of Bialystok, K. Ciolkowskiego 1K, 15-245 Bialystok, Poland

Prof. Dr. Monika Naumowicz

Laboratory of Bioelectrochemistry, Department of Physical Chemistry, Faculty of Chemistry, University of Bialystok, 15-245 Bialystok, Poland

Deadline for manuscript submissions

closed (31 December 2022)

Membranes

an Open Access Journal by MDPI

Impact Factor 3.6
CiteScore 7.9
Indexed in PubMed

mdpi.com/si/77369

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

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

MDPI

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 accessjournal 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))