



Membranes and Separators in Microbial Fuel Cells

Guest Editor:

Prof. Dr. Chikashi Sato

Department of Civil and
Environmental Engineering,
Idaho State University, Pocatello,
ID 83209, USA

Deadline for manuscript
submissions:

closed (10 June 2022)

Message from the Guest Editor

Microbial fuel cells (MFCs) have emerged as a promising renewable energy technology concurrently providing bioelectricity generation, pollutant degradation, and other capabilities (e.g., nutrient recovery, environmental quality monitoring sensors, implantable health devices). In MFC design, membranes are key components and frequently used as a separator, anode, and/or cathode material. Membranes directly affect the MFC performance and manufacturing costs.

This Special Issue mainly emphasizes recent developments and advancements in membrane and separator materials for increasing the performance of MFCs and related systems. The important characteristics of membrane and separator materials that require investigation include but are not limited to electrical resistance, electrical conductivity, chemical stability, corrosion resistance, biofouling, mechanical strength, biocompatibility, environmental friendliness, and economics (cost).





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 (*Chemistry, Physical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

Membranes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/membranes
membranes@mdpi.com
[X@Membranes_MDPI](https://twitter.com/Membranes_MDPI)