



an Open Access Journal by MDPI

## Membrane Separators for Batteries and Fuel Cells

Guest Editor:

**Prof. Dr. César Augusto  
Correia de Sequeira**

Materials Electrochemistry  
Group, Instituto Superior  
Técnico, University of Lisbon,  
1049-001 Lisbon, Portugal

Deadline for manuscript  
submissions:

**closed (10 June 2020)**

### Message from the Guest Editor

Dear Colleagues,

The growth of the fully electric car industry fuels a demand for high power, long life, and low price battery and fuel cell systems. Advanced lithium-based batteries, exotic redox flow batteries, and polymer electrolyte fuel cells, among other technologies, offer promising solutions.

Batteries and fuel cells use some form of porous separator that isolates the electrode circuits but is able to easily pass ions between electrodes. Membrane separators can considerably affect battery and fuel cell performances and are necessary to develop new, stable, safe, smart, and sustainable materials for next-generation batteries and fuel cells, with a lower cost and enhanced reliability.

This Special Issue will be the perfect forum to bring together the latest results and innovations obtained by key laboratories presently engaged in advanced membrane separators for batteries and fuel cells.



[mdpi.com/si/24007](https://mdpi.com/si/24007)

# Special Issue



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](http://www.mdpi.com)

[mdpi.com/journal/membranes](http://mdpi.com/journal/membranes)  
[membranes@mdpi.com](mailto:membranes@mdpi.com)  
[X@Membranes\\_MDPI](https://twitter.com/Membranes_MDPI)