Special Issue

Advanced Membranes for Energy and Environment: Synthesis and Characterization

Message from the Guest Editors

The climate change and energy scarcity have boosted the utilization of clean energy sources. The development of new technologies that are able to produce and functionalize more sustainable, cost-effective, environmentally friendly membranes for energy and environment purposes represents a promising solution to the full and widespread exploitation of green energy sources and their reduced environmental impact. Various membranes are currently employed as components of energy devices, such as batteries, electrolyzers, supercapacitors, and for environmental applications, including desalination, photocatalytic degradation and wastewater treatments. Membranes are globally recognized as an essential element in these sustainable systems thanks to their intrinsic advantages, when compared to conventional materials, as well as to their versatility.

- Components for batteries and supercapacitors
- Electrolysis: safety, performance and innovative design
- Desalination
- Photocatalytic degradation and wastewater treatment
- Sustainability and environmental impact

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2021)

Membranes

an Open Access Journal by MDPI

Impact Factor 3.6
CiteScore 7.9
Indexed in PubMed

mdpi.com/si/83082

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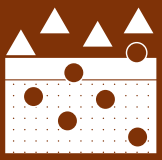

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Message from the Editor-in-Chief

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

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