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Functional Porous Membranes for Energy, Environmental and Biomedical Applications

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Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editors

Dear Colleagues,

The quest for preparing more efficient membranes is an emerging field with still many unsolved challenges ahead. Efficiency can be boosted by loading/blending or coating the membranes with active fillers/materials (inorganic nanomaterials, polymers, ionic liquids, liquid crystals, etc.). The porous structure of the membrane also plays an important role in function and performance. The applications of the membranes cover a wide range of fields. The present Special Issue will focus on the applications of organic and inorganic membranes to get sustainable energy, environmental remediation, and biomedical solutions. This Special Issue will accept research and review manuscripts, topics include, but are not limited to:

- New membrane synthesis methodologies,
- New composite membrane materials,
- Getting insights on mechanisms for membrane formation and performance of membrane function both experimentally and/or through modeling,
- Experimental evaluation of porous membrane performance on membrane modules and membrane reactors
- Scaling-up
- Environmental and/or economic evaluation with simulation tools (i.e., Life Cycle Assessment) of membrane-based technologies

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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.

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