

Special Issue

Membranes for Energy Conversion

Message from the Guest Editor

Global energy consumption continues to grow, and the present energy generation is still largely dependent on fossil fuels, which will become less accessible in the not-too-distant future. In addition, the increase in the price of energy together with the environmental problems resulting from the excessive emission of greenhouse gases have led to a growing interest in the development of alternative energy sources. In addressing this challenge, membrane technology is a promising alternative for energy conversion with less environmental impact and, in this sense, the interest in it has been growing rapidly. From the energy conversion perspective, the potential application of membranes covers a wide range, including their use as electrolytes in membrane-based fuel cells, as separators in lithium batteries, in obtaining blue energy by means of reverse electrodialysis, or in thermoelectric and electrokinetic energy conversion, among others. Research contributions on different aspects related to the use of membranes for energy conversion are welcome for this Special Issue.

Guest Editor

Dr. V. María Barragán

Department of Structure of Matter, Thermal Physics and Electronics,
Faculty of Physics, Complutense University of Madrid, Plaza de
Ciencias, 1, 28040 Madrid, Spain

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

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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 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.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
School of Chemistry, The University of Melbourne, Melbourne, VIC
3010, Australia

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