



Membranes for Energy Conversion (Volume II)

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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. Some membrane technologies are already applied in industries at scale, and others are still in earlier stages, but in any case, we are faced with the major challenge of making breakthroughs in membrane science and technology.





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Message from the Editor-in-Chief

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