Special Issue

Designing Energy-Efficient Separation Membranes

Message from the Guest Editor

Membrane separation has proven to provide an efficient solution to energy and environmental-related challenges due to its low energy consumption, ease of operation, and reduced secondary pollution. The development of membranes with special nanostructures showing outstanding chemical/mechanical properties and superior separation characteristics is crucial for an energy-efficient separation process. In recent years, it has become increasingly popular to identify concepts or strategies in nature for the design of energy-efficient separation membranes. This Special Issue of *Membranes* attempts to collect the latest innovations in the preparation and characterization of energy-efficient separation membranes, advanced membrane separation processes, and modeling of the behavior of energy-efficient separation membranes. We encourage authors, especially those from leading laboratories and institutes, to submit their latest results. Submissions of high-quality research in the scaling up of energy-efficient membrane production are also welcomed.

Guest Editor

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Deadline for manuscript submissions

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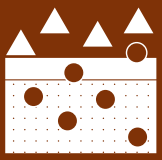

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Message from the Editor-in-Chief

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

Prof. Dr. Spas D. Kolev
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