



Designing Energy-Efficient Separation Membranes

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Message from the Guest Editor

Dear Colleagues,

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.

Dr. Yi (Harvey) Huang
Guest Editor





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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).

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