Special Issue

Advances in Zeolite Membranes for Energy and Environmental Sustainability

Message from the Guest Editors

Zeolite membranes, as a class of crystalline microporous materials with molecular-sieving and selective adsorption capabilities, have attracted growing attention in the fields of energy and environmental sustainability. This Special Issue highlights recent advances in the synthesis and design of zeolite and zeolitic MOF membranes, novel membrane materials, microstructural engineering, characterization, and modeling, as well as energy-efficient separations and sustainable processes. Topics of interest include, but are not limited to: membrane synthesis and modification; defect control and thickness regulation; composite and hybrid zeolite membranes; pervaporation and vapor permeation; gas separation; membrane reactors and catalytic applications; scale-up and module development; and energy- and environment-related applications.

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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

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