Special Issue

Nanofiltration Membranes: Preparation, Structure and Separation Performance

Message from the Guest Editors

Nanofiltration membranes can have potential applications in water and wastewater treatment, desalination, pharmaceuticals and biotechnology, organic solvent filtration, and so on. The major deficiencies that limit the application of nanofiltration membranes include the inferior chlorine tolerance of the membrane material, their lack of stability in oxidative systems and pH extremes, and the ease of fouling by organisms. Therefore, the preparation of nanofiltration membranes with improved stability and fouling resistance, and with both enhanced flux and rejection, which is essential for the broadening of their field of application. Contributions may include, but are not limited to, the following topics: Innovative techniques for nanofiltration membrane preparation; Nanofiltration membranes containing two-dimensional nanomaterials or other organic microporous materials; Novel methods for membrane structure characterization; Study on the relationship between the structure and performance of nanofiltration membranes; The application of nanofiltration membranes in desalination, water-softening, heavy metal removal, dye/salt fractionation, etc.

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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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