



Recent Advances in Wastewater Treatment Based on Membrane Technologies

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Deadline for manuscript
submissions:

closed (30 November 2022)

Message from the Guest Editors

Recent research attempts have focused on developing polymer-based nanocomposite membranes for sustainable water purification, aimed at enhancing fouling resistance and surmounting the trade-off relationship between permeability and solute rejection. Nanocomposite membranes are a promising modified version of traditional polymeric membranes for water and wastewater treatment, with three main characteristics of enhanced permeation, improved rejection, and reduced fouling. For novel nanocomposite membranes, there is a strong connection between membrane fabrication methods, the properties of fabricated membranes, and membrane performance.

We are seeking high-quality research and review papers on different nanocomposite membrane fabrication and modification techniques for mixed matrix membranes and thin film membranes for both pressure-driven and non-pressure-driven membranes using different types of nanoparticles, carbon-based materials, and polymers. Research contributions on different aspects related to recent advances in wastewater treatment based on membrane technology are welcome to this Special Issue.





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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 access journal 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.

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