Special Issue

Prospects for Nanocomposite Membrane Applications

Message from the Guest Editors

In the landscape of modern materials science, nanocomposite membranes emerge as a beacon of innovation, harnessing the synergistic potential of nanotechnology and membrane technology. These membranes, composed of a blend of nanomaterials and polymers, hold immense promise in revolutionizing various applications due to their unique structural characteristics and tailored functionalities. By integrating nanoparticles with conventional membrane matrices, nanocomposite membranes exhibit superior properties such as enhanced mechanical strength, tunable surface properties, etc. The pursuit of nanocomposite membrane research is driven by the urgent need for sustainable solutions to pressing global challenges, including clean water scarcity, environmental pollution, and energy sustainability.

This Special Issue is to collect recent advancements and applications of nanocomposite membranes. The types of articles in this collection include reviews and original research papers, covering a variety of nanocomposite membrane applications including water purification and desalination, organic solvent purification, gas separation, energy conversion and storage, and environmental remediation.

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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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