

Special Issue

Advances in Nanofiber Membranes for Separation Applications

Message from the Guest Editors

Membrane technology has long been recognized as a crucial method for various separation processes, playing a pivotal role in applications ranging from water purification to wastewater treatment. As global demand for sustainable solutions intensifies, advancements in membrane materials, design, and fabrication methods are essential for addressing the growing challenges in both industrial and environmental sectors. This Special Issue aims to focus on the latest research in membrane technology, highlighting novel nanomaterials, manufacturing methods and the applications of membranes. It also seeks to bring together researchers from both academia and industry to jointly address the challenges faced in the large-scale application of separation membranes. We invite original research and review articles that explore the latest developments and provide insights into the future of membrane technology in various industries.

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano–alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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