Special Issue

Nano-Composite Membranes for Environmental Application

Message from the Guest Editors

The membrane is the core element and also source technology that dictates the overall performance and economics of the various separation processes. The recent emergence of nano-composite and its applications to membrane engineering proved the potential of the nano-composite membrane to improve performance and enable sustainable industrial growth. The nano-composite membrane has also attracted great attention in addressing growing environmental applications such as water desalination and reuse, energy production, biomedical health fields and mining of valuable elements or materials.

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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.

Editor-in-Chief

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