Special Issue

Nanomaterials for Advanced Membrane Filtration Technologies

Message from the Guest Editor

The most recent developments in the field of nanomaterials and nanotechnologies have been enabling the design of new generations of artificial membranes with novel functions and enhanced molecular separation properties for water detoxification and as separation devices in biorefineries. The present Special Issue will focus on the most recent advances in nanomaterials for molecular separation membranes. Investigators are here invited to submit original research articles, letters, and critical reviews, on novel membrane devices or novel nanomaterials which have interesting properties from the perspective of membrane design (e.g., pore structure, self-cleaning properties, fast water transport). Works with no filtration experiments will be also considered for publication in this Special Issue, but only if they include a clear explanation of the advances that the nanomaterial can bring when applied to a membrane filtration system.

Guest Editor

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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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
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