Special Issue

Nanofiltration Membranes

Message from the Guest Editors

Nanofiltration (NF) as an environment-friendly, low energy consumption and high-efficient separation technology has attracted increasing research attention. It has been widely applied in the desalination of brackish and sea-water, removal of contaminated inorganic salts and organic substances from municipal and industrial wastewater, and purification and concentration of petrochemical and biopharmaceutical products, etc. To developing NF membranes with higher selectivity and permeability, better mechanical/thermal stability and antifouling capability, various nanomaterials, biomimetic techniques, and advanced membrane preparation methods have been developed. This Special Issue of Nanomaterials aims to collect state-of-the-art work on nanofiltration membranes, from a fundamental and application perspective. The format of expected articles includes full papers, communications, and reviews.

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Deadline for manuscript submissions

closed (28 February 2023)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/85582

Nanomaterials
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mdpi.com/journal/nanomaterials

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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