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Advanced Nanostructured Membranes

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Message from the Guest Editor

Nanostructured membranes can be defined as membranes with an internal or surface nanostructure. This could be a dense membrane incorporated with nanomaterials, a porous membrane with nanoscale pores, or a combination of both. In recent years, advanced nanostructured membranes have emerged, demonstrating enormous development potential in fields such as water purification, wastewater treatment, and gas separation. The purpose of this journal is to collect and publish research and experiments on nanomaterials or structures in the field of membranes in order to better showcase the application prospects of advanced nanostructured membranes. We invite submissions of original research articles or comprehensive reviews on, but not limited to, the following topics:

- Nanocomposites of nanostructured membranes;
- Nanostructured membranes for gas separation;
- Nanostructured membranes for water purification or wastewater treatment;
- Computation and modeling of nanostructured membranes;
- Preparation method of nanostructured membranes;
- Research reviews of nanostructured membranes.



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

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