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Nanostructured Membranes II

Guest Editors:

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Prof. Dr. Kuo-Lun Tung

Dr. Xing Yang

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Deadline for manuscript submissions:
closed (31 August 2021)

Message from the Guest Editors

Dear Colleagues,

The unique nanostructure and enhanced surface properties of nano-materials provide new perspectives on separation membranes. The application of nanostructured materials in separation science, which is concerned with how to selectively reclaim solvents or remove contaminants from mainstreams, still, however, faces a number of challenges, largely related to particle agglomeration, high energy consumption, organic, inorganic, and biological fouling, mechanical and chemical stability of the nano-materials' surface properties, and evident reproducibility.

The performance of nanostructured membranes can be further augmented by the functionalisation of materials, either by introducing materials or modifying the surface with a novel functionality. Significant breakthroughs have particularly been made in combinatorial materials design, which aims to develop multi-functional hybrid systems. The purpose of this Special Issue is to publish high-quality research papers as well as review articles addressing recent developments in the application of nanostructured membrane materials.

Lingxue Kong, Kuo-Lun Tung, Xing Yang and Shuaifei Zhao
Guest Editors

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Message from the Editor-in-Chief

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375).

Membranes is an international, peer-reviewed open accessjournal of membrane technology published monthly online by MDPI. The journal covers the broad aspects of the science and technology of both biological and non-biological membranes, including membrane dynamics and the preparation and characterization of membranes and their applications in water, environment, energy, and food industries. Articles contributing to better understanding of transport processes in all types of membranes are also welcome. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

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