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Advanced Materials and Nanotechnology for Efficient Membrane Separation Processes

Guest Editors:

Dr. Chuanlong Ma
Research Unit Plasma Technology (RUPT), Department of Applied Physcis, Ghent University, B-9000 Gent, Belgium

Dr. Lei Wang
College of Advanced Interdisplinary Studies, National Univeristy of Defense Technology, Changsha 410073, China

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Message from the Guest Editors

This Special Issue aims to provide an overview of the latest findings and insights in the areas covering advanced materials used as membrane materials and emerging nanotechnologies used either in synthesizing novel, custom, desirable membranes or in the surface functionalization of available membrane materials to improve the membrane separation processes for a sustainable future. We invite researchers to submit their latest research papers or comprehensive review articles to this Special Issue. The contributions may cover a wide range of topics. These include, but are not limited to, the following:

- Novel or newly synthesized advanced materials with desirable functionalities for membrane separation;
- Nanotechnologies used for synthesizing the advanced membrane materials or surface functionalization of membrane materials;
- Applications of advanced membrane materials in various industrial processes, such as water purification, food processing, gas separation, and pharmaceutical manufacturing;
- Investigation of the underlining mechanisms involved in membrane separation processes.

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Special Issue

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Editor-in-Chief

Prof. Dr. Spas D. Kolev
School of Chemistry, The University of Melbourne, Melbourne, VIC 3010, Australia

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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Contact Us

Membranes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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