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Graphene-Based Membranes: From Synthesis to Applications

Guest Editors:

Dr. Jeng Yi Chong
School of Chemistry, University of Southampton, Southampton SO17 1BJ, UK

Dr. Chong Yang Chuah
Chemical Engineering Department, Universiti Teknologi Petronas, Bandar Seri Iskandar, Perak 32610, Malaysia

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Message from the Guest Editors

Graphene-based materials such as graphene, graphene oxide (GO) and reduced GO (rGO) have demonstrated great potential for thin film and membrane applications due to their unique two-dimensional structure, atomic-layer thickness and tuneable functionalities. With excellent chemical and mechanical properties, graphene-based membranes have been applied for gas separation, nanofiltration, organic solvent nanofiltration, pervaporation and so on. As our understanding of the material processing and transport mechanisms have developed throughout the last decade, the separation performance of graphene-based membranes can now be uniquely designed and finetuned by tailoring their structures and properties.

This Special Issue aims to publish recent advances in graphene-based membrane research. We wish to share new strategies and techniques for designing and synthesizing graphene-based membranes for novel applications. Studies about the development of large scale graphene-based membranes for potential pilot scale or industrial settings are also welcome. Interested authors are encouraged to submit their latest research findings, perspectives and review papers on the topics listed above.

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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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𝕏@Membranes_MDPI