

Special Issue

Advanced Membrane Materials for Gas Separation and Water Treatment

Message from the Guest Editors

In the context of increasing global concerns regarding environmental sustainability, membrane-based technology has become a favorite option for gas separation and water treatment processes. The membrane industry, however, is currently constrained by the inherent limitations of the conventional membrane materials. Advances and innovations in membrane materials could lead to next-generation membrane technologies with high energy efficiency and low carbon footprint. The purpose of this Special Issue is to present the latest developments on membrane materials for gas separation and water treatment processes. We are seeking high-quality papers for this Special Issue on “Advanced Membrane Materials for Gas Separation and Water Treatment”. Both original research articles and review papers are welcomed. Research areas may include (but are not limited to) the following:

- Inorganic membranes (ceramic, metallic, carbon, metal-organic framework, and zeolite membranes);
- Polymeric membranes;
- Mixed-matrix membranes;
- Bio-based membranes;
- Stimuli and smart responsive membranes.

We look forward to receiving your contributions.

Guest Editors

Dr. Ben Yin

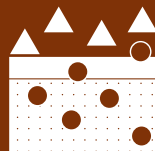
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Deadline for manuscript submissions

closed (25 June 2023)



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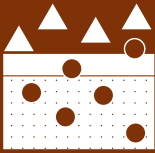


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About the Journal

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 access journal 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.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
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