Special Issue

Green Membrane Technology

Message from the Guest Editor

In the context of the global populational explosion, resource, and energy scarcity have become a daunting challenge for human beings. Generally, energy-extensive consumption processes expend more resources and lead to high emissions of carbon oxides, which run counter the achievement of the goal of carbon neutrality. To save energy and resources, green membrane materials and processes as a sustainable approach have been greatly pursued and must play a key role in the reduction of greenhouse gas emissions. This Special Issue aims to address these concerns and how they have been investigated in the research.

- Green preparation of membranes;
- Green membrane materials;
- Green membrane processes driven by renewable energy;
- Sustainable membrane and membrane processes;
- Membranes and membrane processes for carbon capture, utilization, and storage;
- Forward osmosis;
- Pressure retarded osmosis;
- Solar-driven membrane processes;
- Solar membrane distillation;
- Process modeling and techno-economic analysis of membrane approaches for green processes;
- Biomembrane or biodegradable membrane;
- Membrane and membrane processes for zero discharge

Guest Editor

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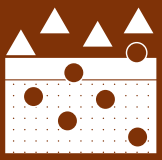

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About the Journal

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 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.

Editor-in-Chief

Prof. Dr. Spas D. Kolev
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