

## Special Issue

# Green Membrane Technologies: Advancements in Materials and Energy Efficiency for Water Treatment

### Message from the Guest Editor

I am pleased to invite you to submit your research for publication in a Special Issue on "Green Membrane Technologies: Advancements in Materials and Energy Efficiency for Water Treatment". This Special Issue focuses on the latest developments in membrane technologies designed to address global water challenges, with an emphasis on energy efficiency, advanced materials, and next-generation solutions for desalination and wastewater treatment. We will explore topics such as material innovations, energy-efficient processes, hybrid systems, and the integration of renewable energy into membrane-based water treatment. We seek contributions that demonstrate how advancements in membrane materials and process designs can lead to more sustainable water treatment solutions. In particular, we are interested in submissions that address energy savings, novel material fabrication, and hybrid membrane systems that leverage photothermal or photocatalytic effects for enhanced water purification. We invite submissions of original research articles and comprehensive reviews on a wide range of topics, please see the Special Issue webpage.

### Guest Editor

Dr. Jehad A. Kharraz

Chemical and Petroleum Engineering Department, College of Engineering and Physical Sciences, Khalifa University, Abu Dhabi P.O. Box 127788, United Arab Emirates

### Deadline for manuscript submissions

1 October 2025



## Membranes

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*Membranes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[membranes@mdpi.com](mailto:membranes@mdpi.com)

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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.

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### Editor-in-Chief

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

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