

## Special Issue

# New Advances in Membrane Separation Technology for Water Pollution Control and Membrane Fouling Mitigation

### Message from the Guest Editors

Water pollution is a serious threat to the ecological environment and human health. Benefiting from outstanding water quality, small footprints, and easy operation, membrane technology has achieved great attention in industrial separation and environmental protection. However, as “the Achilles heel” of membrane technology, membrane fouling is an inevitable issue. Therefore, it is urgent to develop advanced membrane materials and membrane processes for effective water pollution control and sustainable membrane fouling mitigation. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Membranes for ion/molecule separation.
- Membrane separation technology for drinking water pollution control.
- Membrane separation technology for wastewater pollution control.
- Antifouling membrane materials.
- Membrane cleaning strategies.
- Self-cleaning membrane.
- Advanced membrane fouling control strategies.
- Catalytic membranes for enhanced separation and fouling control.

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### Guest Editors

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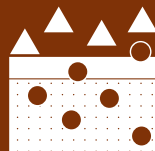
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### Deadline for manuscript submissions

closed (31 March 2026)



## Membranes

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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  
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