

## Special Issue

# Membranes for Ion-Exchange and Water Purification

### Message from the Guest Editor

Membranes play a central role in today's transition toward more sustainable water and energy. At the intersection of environmental, technological, and health challenges, membrane technologies are powerful and versatile tools, especially in ion-exchange and water purification processes. This Special Issue focuses on membranes for ion-exchange and water purification, two fast-growing fields both scientifically and industrially. We welcome original contributions addressing the design, functionalization, characterization, modeling, and application of membranes in processes such as the following: Reverse osmosis;

Electrodialysis and other forms of dialysis ;

Nanofiltration and ultrafiltration targeting inorganic or organic contaminants;

Selective ion separation;

Industrial or wastewater purification;

Hybrid or intensified systems (e.g., photo-electro-membrane systems, bio-membranes);

Development of bio-based or sustainable membranes.

We hope this Special Issue will serve as a scientific reference point for researchers, engineers, and industry professionals dedicated to advancing membrane technologies for cleaner, more accessible, and more efficient water resources.

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### Guest Editor

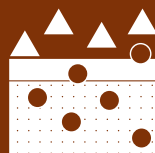
Prof. Lasâad Dammak

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### Deadline for manuscript submissions

closed (31 December 2025)



## 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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3010, Australia

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