

Special Issue

Membrane Applications for Molecular Purification

Message from the Guest Editor

Membrane-based separation technologies are increasingly recognized as powerful tools for the efficient and selective purification of high-value molecules across diverse industries, including pharmaceuticals, food and beverage, biotechnology, and specialty chemicals. Their advantages, such as low energy consumption, scalability, mild operation conditions, and the potential for continuous operation, make them attractive alternatives to conventional purification methods. This Special Issue invites papers focusing on the design, development, and application of membrane processes for the separation and purification of target molecules. Topics of interest include, but are not limited to:

- Membrane materials and fabrication for molecular separation.
- Process design and optimization for high-purity product recovery.
- Purification of pharmaceutical compounds, nutraceuticals, and food ingredients.
- Hybrid processes combining membranes with other separation technologies.
- Case studies on industrial implementation and scale-up.
- Advances in membrane fouling control, cleaning, and regeneration.
- Emerging membrane technologies for sustainable and green separations.

Guest Editor

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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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