

Special Issue

Cutting-Edge Research and Technological Advancements of Membranes for Separation Processes

Message from the Guest Editors

We are pleased to announce a Special Issue dedicated to “Cutting-Edge Research and Technological Advancements of Membranes for Separation Processes” in *Membranes*. This issue aims to showcase cutting-edge research and technological advancements in polymeric membrane science, encompassing mixed matrix and nanostructured membranes. We invite you to contribute original research articles focusing on current hot topics, including the following: (1) Next-generation membrane materials: Exploring novel polymers, nanomaterials, and hybrid structures; (2) Advanced membrane fabrication: Innovations in 3D printing, electrospinning, and interfacial polymerization; (3) Sustainable membrane technologies: Focusing on energy efficiency, resource recovery, and environmental remediation; (4) Membranes for challenging separations: Addressing complex mixtures, high-temperature applications, and aggressive environments; (5) Membrane characterization and modeling: Employing advanced techniques for structure–property relationships and performance prediction and fouling mitigation.

Guest Editors

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Deadline for manuscript submissions

31 October 2026



Membranes

an Open Access Journal
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Impact Factor 3.6
CiteScore 7.9
Indexed in PubMed



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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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