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Advances in Membrane Surface Modifications and Functionalizations for Efficient Separation Processes

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Message from the Guest Editors

Dear Colleagues,

Membrane separation processes have revolutionized several industries, including water purification, gas separation and pharmaceutical manufacturing, by providing an energy-efficient and environmentally friendly means of separating substances. The efficiency and selectivity of these processes are highly dependent on the membrane surface characteristics. Over the years, extensive research has been conducted to advance membrane surface modification and functionalization to improve the separation processes by tailoring membrane properties to specific application requirements.

Despite significant progress, there is a growing need for further research and innovation in this field. The aim of this Special Issue is to serve as a platform to present the latest findings and insights to promote the development of advanced membrane technologies, with a focus on theoretical and experimental advances in membrane surface chemistry, in particular, synthesis, characterization and separation performance.



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Special Issue



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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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