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Recent Advances in Fluorine-Free Membranes

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Message from the Guest Editors

Per- and polyfluoroalkyl substances (PFASs) are versatile compounds found in a wide range of products. Their properties—such as chemical resistance, thermal stability, water and oil repellence, low friction, electrical insulation, and durability—have led to their extensive use across various industries. However, despite these benefits, the persistence and potential health and environmental risks associated with PFASs have led to increased scrutiny and efforts to find safer alternatives.

Growing environmental awareness and regulatory pressure have prompted the active development of fluorine-free alternatives, thereby facilitating advances in membrane technology. Fluorine-free membranes offer versatility and sustainability, adhering to environmental safety regulations while ensuring safe and clean processing without compromising performance and durability.

Their unique properties have led to their increased adoption in water treatment, chemical and pharmaceutical industries, food and beverage production, and energy conversion devices.





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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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