



Advances of Membrane Technology for Liquid Separation and Purification

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Message from the Guest Editors

Dear Colleagues,

Membrane degassing is becoming a critical step in various industrial processes to protect downstream sections or equipment. The dissolved gases are present in trace quantities in aqueous systems and are pulled out as a vapor. A membrane contactor is the device to fulfill the degassing task and it normally includes a large number of hollow fibers. The driving force of membrane degassing is the pressure difference between the equilibrium pressure of the liquid phase and the actual partial pressure in the gas phase. To maintain the driving force and to force dissolved gas out of the liquid phase, the lumen side of the hollow fibers is normally under vacuum and/or flushing with sweep gas. The degassing performance is closely related to the properties of the membranes, design of the membrane contactor and the operation conditions.

This Special Issue aims to collect research on membrane and membrane devices for the removal of dissolved gases from liquids to highlight the advances in membrane degassing, and to gain insight into the future direction and research focus in relevant fields.

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Guest Editors





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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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