

## Special Issue

# The Thin-Film Composite Membrane: Principles, Productions and Applications

### Message from the Guest Editors

The use of thin-film composite (TFC) membranes has broadened the application of membranes in a wide variety of processes, from liquid to gas separation. The purpose of this Special Issue of Membranes is to present the state-of-the-art of TFC preparation, with a focus on the effect of variables in membrane preparation, how to bind the gap between bench-scale and industrial preparation routes, and on the applications of such separation systems.

Original research papers, reviews, and communications on TFC principles, production, and applications are welcome. The scope of papers should be (but is not limited to) the effects of process parameters on TFC membranes, simulation of phase separation and/or other methods such as in situ polymerization, new applications of TFC membranes other than desalination, evaluation of large-scale TFC membrane preparation with maintenance of properties, and studies on the recyclability of TFC membranes in special green chemistry applications.

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### Guest Editors

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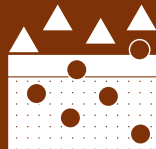
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### Deadline for manuscript submissions

closed (28 February 2025)



## Membranes

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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.

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### Editor-in-Chief

Prof. Dr. Spas D. Kolev  
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