# **Special Issue**

# Interfacial Interactions of Nanoparticles and Molecular Nanostructures with Model Membrane Systems

### Message from the Guest Editor

Ever since Singer and Nicolson introduced the membrane model over half a century ago, the complex structural organization of the cell membrane has been hinted at. Simplified model membrane systems have been proposed that reveal the nature of the interactions of various molecular structures with cell membranes at the nanoscale level. The most commonly used and wellknown model membrane systems include monolayers, bilayers, liposomes, and membranes formed on solid substrates, such as Langmuir-Blodgett (LB) films. In light of the above, this Special Issue aims to provide an opportunity for researchers working in the aforementioned scientific fields to publish original research articles, comprehensive reviews, and short communications focused on aspects of the interactions between model membrane systems and nanoscale structures. We hope that with the combined efforts of scientists from various fields of the life and physical sciences, new horizons will open in the study and understanding of vital phenomena related to the structure and molecular organization of cell membranes.

#### **Guest Editor**

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### Deadline for manuscript submissions

30 November 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 accessjournal 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 School of Chemistry, The University of Melbourne, Melbourne, VIC 3010, Australia

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