

Special Issue

Numerical Modelling in Membrane Processes

Message from the Guest Editors

This Special Issue on “Numerical Modelling in Membrane Processes” seeks to collate original research studies which deal with the use of mathematical models to understand, describe, predict or optimize the performances of membrane processes. This Special Issue mainly focuses on the modelling of fluid flow or mass transfer, and especially the description of phenomena governing filtration performances such as transport mechanisms, exclusion phenomena, fouling, concentration polarization, surface charge regulation, etc. The numerical approaches proposed in submitted manuscripts can be applied to various membrane processes, such as pressure-driven (reverse osmosis, nanofiltration, ultrafiltration, microfiltration), concentration-driven (pervaporation, forward osmosis, pressure retarded osmosis), electrically driven (electrodialysis) or thermally driven (membrane distillation) processes.

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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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Prof. Dr. Spas D. Kolev
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