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Numerical Modelling in Membrane Processes

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closed (30 June 2021)

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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Message from the Editor-in-Chief

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