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Mathematical and Computational Modelling in Membrane Separations: From Preparation to Processes

Guest Editor:

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Message from the Guest Editor

In the portfolio of technologies available for green processes and net-zero solutions, membrane separations offer a sustainable alternative to energy-intensive processes. Detailed knowledge of the performance of membrane materials over wide operating ranges is a necessary prerequisite for the design of efficient membrane processes. Mathematical and computational analysis can greatly support membrane material and process design, and can help to compact the lab-to-market cycle of innovative solutions. This Special Issue is dedicated to recent advances in all aspects of modelling in membrane science and engineering, from the rationalisation of manufacturing protocols to tailor end-use performance, to the development of transport models, and to membrane process control and optimisation. Macroscopic, molecular, and data-driven approaches are of interest, as well as multi-scale strategies and novel hybrid methods combining physics-based and data-driven approaches.

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Message from the Editor-in-Chief

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