

## Special Issue

# Modeling and Simulations for Membrane Processes of Industrial Interest

### Message from the Guest Editors

The interest for simulation in membrane systems is well-documented, both in terms of transport phenomena, as well as in the study of membrane operations. In the first case, the fundamental comprehension of transport phenomena and the a priori predictions of permeation rates, based on rigorous calculation of the interactions of liquid and gas molecules with several types of membrane materials, have been largely investigated. In recent years, also due to the rapid growth in digital computation capacity and improvements in simulation algorithms and parallel programming, simulations and modeling have become fundamental tools for proper research development. This Special Issue of *Applied Sciences*, "Modeling and Simulations for Membrane Processes of Industrial Interest", will focus on recent progress in the development relating to "traditional" and new membrane processes and aims to cover recent advances in the exploitation of membrane morphology at nanoscale level, transport phenomena, fouling issues, process improvements and applications.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 July 2018)



## Applied Sciences

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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