



Preparation, Characterization and Modelling of Advanced Membranes

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Message from the Guest Editors

This Special Issue of *Applied Sciences* aims to provide an overview of state-of-the-art research in the preparation, characterization, and modeling of advanced membranes. The envisaged applications range from gas and vapor separation, to pervaporation, nano-, ultra-, and micro-filtration, direct and reverse electrodialysis, forward and reverse osmosis, and all other fields where membranes play a central role. It is a collection of publications that focus on the membrane materials, their synthesis, properties and performance, both from the experimental viewpoint and through modeling approaches.

Keywords

- polymeric membranes
- mixed matrix membranes
- inorganic membranes
- gas separation
- membrane filtration
- fouling
- membrane contactors
- membrane preparation and characterization
- sustainability

