# **Special Issue**

## Membrane Technology for Water Treatment and Desalination

## Message from the Guest Editors

Membrane technology, including reverse osmosis, forward osmosis/pressure regarded osmosis, etc., has been extensively applied in many important applications ranging from desalination to water/wastewater treatment and water reuse. Emerging membrane materials, including novel polymeric or inorganic membranes, have been increasingly studied in recent years. Model-driven (e.g., transport and process modeling) and data-driven (e.g., deep learning and machine learning) approaches can further deepen our understanding of water/solutes/trace organic contaminants transport mechanisms in membranes and help us to analyze the membrane structure-propertyperformance relationship. In addition to the fabrication of novel membrane materials, further investigation and integration with novel membrane modules and system designs could potentially unleash the full benefits of high-performance membranes. Membrane fouling behaviors have also been widely explored and are of great fundamental significance and practical importance for many applications.

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### Deadline for manuscript submissions

closed (1 December 2022)



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## Message from the Editor-in-Chief

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#### Editor-in-Chief

### Dr. Jean-Luc PROBST

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