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–property–performance 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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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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