Special Issue

Research and Innovation on Water Desalination Technology and Reverse Osmosis

Message from the Guest Editor

Water scarcity is a global issue that is affecting communities and ecosystems. Recent population trends show an increase in urbanization and population migration, resulting in an increasing number of people living in coastal areas or in areas where freshwater is difficult to access. Researchers and innovators have focused their efforts on developing advanced water desalination technologies to address this pressing issue. Among these, reverse osmosis (RO) has emerged as the most popular method for converting seawater or brackish water into fresh water. Although RO has been commercially viable for more than 40 years, large-scale implementation has been difficult. RO is a promising solution for meeting the growing demand for clean water because of its high efficiency, low energy consumption, and excellent salt rejection. This Special Issue's goal is to present research and innovation in water desalination technology, with a focus on (but not limited to) reverse osmosis. Novel RO membrane materials, optimization processes, energy-efficient desalination techniques, etc. will all be covered in this Special Issue.

Guest Editor

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Message from the Editor-in-Chief

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

Dr. Jean-Luc PROBST
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