

Special Issue

Desalination Technologies and Renewable Energy Sources

Message from the Guest Editor

The desalination of sea and brackish waters is becoming an essential means of supplying fresh water in an increasing number of countries worldwide. Conventional desalination technologies suffer from major limitations including high energy consumption, low recovery ratio and environmental impacts associated with brine discharge. The use of renewable energy (RE) sources to power desalination systems is identified as a promising way to tackle the above-mentioned limitations of fossil fuel desalination plants. However, several barriers limiting the industrial development and implementation of RE desalination units are still present such as the high investment cost of RE equipment and the intermittent behavior of RE systems. The proposed Issue can be viewed as a framework for both original contributions and state-of-the-art reviews on integrated RE desalination facilities. This Issue will also focus on the challenges and barriers of sustainable desalination. Topics of interest for presentation in this Issue include can be found [here](#).

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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