Special Issue

Challenges and Opportunities to Overcome Global Water Crisis Particularly in Arid and Semi-arid Regions

Message from the Guest Editor

This issue will deal with the following subjects:

- Water reuse and Desalination for agriculture assessment in crop, flower, and ornamental plant productions;
- Desalination and wastewater treatment for agriculture assessment and economic evaluation;
- Hydrology water supply for agriculture;
- Management of the seawater intrusion of coastal aquifers;
- Integrated rainfed agriculture and supplementary irrigation in desert coastal areas;
- Magnetization and electrokinetics to reduce the stress of marginal water reuse;
- Feasibility of linking the Congo and Nile Rivers to supply Egypt with sufficient water;
- Hydroponic systems for food production and simultaneous wastewater treatment;
- Novel approaches for reclaiming salt-affected soil;
- Sewage sludge reuse for agriculture;
- Polymer additives to increase the water-holding capacity and nutrient uptake;
- Feasibility of utilizing halophyte plants as food, feed, and biofuel, as well as for saline soil reclamation;
- Genetic breeding and genome editing to alleviate drought and salt stresses in desert areas;
- Novel approaches for reducing water evapotranspiration in arid regions.

Guest Editor

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Deadline for manuscript submissions

closed (15 March 2022)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/78209

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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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