

Special Issue

Climate Smart Irrigation Management for Sustainable Agricultural Cultivation

Message from the Guest Editors

The challenge of irrigated agriculture is to produce more food of better quality with less water and with an optimized use of other resources. Hence, a myriad of climate-smart irrigation options has been under investigation in the last few years. The objective of the issue is to gather the results of the most recent research on climate smart irrigation practices and techniques that can be applied to promote sustainable crop cultivation under various pedo-climatic conditions and constraints. In particular, the research topics related to the efficient management of irrigation both in an open field and in greenhouses will be covered.

Articles may include but are not limited to the following topics:

- Agronomic practices (e.g., sowing/planting methods, soil management, cultivars) that can lead to water saving;
- Irrigation strategies and techniques that optimize water, nutrient, and energy use;
- Advanced tools, sensors, and monitoring techniques for sustainable irrigation management;
- Use of nonconventional water resources for irrigation (treated wastewater, saline and brackish water);
- Innovative approaches for performance evaluation of irrigation at farm and scheme scale.

Guest Editors

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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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