Special Issue

Advances in Agricultural Irrigation Management and Technology

Message from the Guest Editor

Effective water management is a cornerstone of agricultural sustainability for ensuring food security and environmental resilience. With global water resources under increasing pressure from climate change and population growth, it has become imperative to optimize irrigation efficiency. This Special Issue seeks to highlight how emerging technologies and innovative management strategies can enhance the efficiency of irrigation, reduce water wastage, and promote sustainable agricultural practices. The topics of this Special Issue include, but are not limited to, the following:

- Advanced irrigation techniques and systems;
- Smart irrigation technologies and IoT applications;
- Water use efficiency and conservation methods;
- Sustainable irrigation practices in various climatic conditions;
- Impact of irrigation management on crop yield and quality;
- Integration of remote sensing and GIS in irrigation planning;
- Innovations in water-saving irrigation methods and their applicability across different agricultural settings;
- Research and development into new water-saving and energy-efficient irrigation technologies and equipment.

Guest Editor

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Deadline for manuscript submissions

15 July 2025

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 5.8

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About the Journal

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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