

## Special Issue

# Advancing Smart Agricultural Water Management: Integrating Technologies, Irrigation and Plant Ecophysiology for a Sustainable Future

### Message from the Guest Editor

This Special Issue is dedicated to exploring innovation in agricultural water management and supporting the transition toward more efficient, adaptive, and resilient farming systems—both economically and climatically. We welcome contributions on a wide range of topics, including (but not limited to) irrigation strategies, plant-soil system interventions for drought resilience, smart automation, the integration of renewable energy sources, and digital solutions such as remote sensing, the Internet of Things (IoT), and artificial intelligence. Studies on scalable and low-cost solutions for smallholders are encouraged. Additionally, we encourage investigations into the challenges, adoption barriers, and socioeconomic implications of implementing these innovations across different scales, climates, and production systems.

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### Guest Editor

Dr. Nuno Conceição

Higher School of Agriculture, Santarém Polytechnic University,  
Santarém, Portugal

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### Deadline for manuscript submissions

25 February 2026



## Water

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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.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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