

Special Issue

Water Management and Water-Saving Irrigation in Agricultural Areas

Message from the Guest Editor

This Special Issue seeks to address these pressing challenges by exploring innovative strategies, advanced technologies, and integrated management approaches that enhance water productivity and promote resilience in agricultural areas. We invite the submission of high-quality original research articles, reviews, and case studies that contribute to the advancement of knowledge in sustainable agricultural water management. The scope of this Special Issue encompasses a wide range of topics, including, but not limited to, the development and application of smart irrigation systems (e.g., IoT-based sensors, drone monitoring), the efficacy of deficit irrigation strategies, and the utilization of non-conventional water resources. We are particularly interested in research that evaluates the socio-economic impacts of water-saving practices, explores the water–energy–food nexus, and develops modeling tools for optimizing irrigation scheduling and basin-scale water allocation. **Keywords: sustainable water management; water-saving irrigation; precision agriculture; remote sensing and IoT; climate change adaptation; water–energy–food nexus**

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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