





an Open Access Journal by MDPI

Precision Agricultural Water Management and Water Use Efficiency Assessment

Guest Editors:

Prof. Dr. Jinglei Wang

Farmland Irrigation Research Institute, Chinese Academy of Agricultural Sciences, Xinxiang 453003. China

Prof. Dr. Baozhong Zhang

State Key Laboratory of Simulation of Water Cycle in River Basin, China Institute of Water Resources and Hydropower Research, Beijing 100038, China

Prof. Dr. Yufeng Luo

State Key Laboratory of Water Resources and Hydropower Engineering Science, Wuhan University, Wuhan 430072, China

Deadline for manuscript submissions:

closed (1 November 2022)

Message from the Guest Editors

Agricultural systems are vulnerable to climatic variability. In the coming decades, it is projected that the spatiotemporal variation of precipitation will have a devastating impact on the spatiotemporal distribution of water resources, leading to severe floods or droughts. Precision agriculture water management based on a regional agricultural water supply and the improvement of agricultural water efficiency are important measures to achieve a high yield and stable production. With the fast development of sensors and computer and communication technologies, the nondestructive and timely assessment of crop water requirements has become a new research direction. Many scholars have conducted many studies on crop water information perception, water use estimation and regional water management based on Big Data and deep learning, obtaining new findings and developing new technologies in the process. This Special Issue focuses on the research advances in precision agricultural water management and the theoretical and technological assessment of water efficiency. This Special Issue aims to collect original, highquality research and review articles.







IMPACT FACTOR 3.0

citescore 5.8

an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

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 technological scientific domains and interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and

Technology)

Contact Us