

## Special Issue

# Impact of Climate and Socio-Economics on Irrigation Water Management and Agricultural Water Productivity: 2nd Edition

### Message from the Guest Editors

Globally, irrigated agriculture is the biggest consumer of water, accounting for 70% of total water use. Irrigation water management naturally becomes a worldwide concern for agricultural production and livelihood security when there are limited water resources. Therefore, how to improve agricultural water use efficiency or agricultural water productivity and further effectively manage irrigation water resources is a key challenge to ensure water–food security and promote sustainable development of agriculture. To this end, this Special Issue seeks to publish related research papers on the topics of (1) impacts of climate and socio-economic change, including increasing temperature, extreme weather conditions, floods, regional conflicts, etc., and human activities, including irrigation management, cropping patterns, water saving measures, etc., on the agricultural system; and (2) management and approach assessments to help improve the sustainability of the agricultural and hydrological system under the challenging environment. Papers based on experimental observations and modelling simulations are both welcomed and encouraged.

### Guest Editors

Dr. Chenglong Zhang

College of Water Resources & Civil Engineering, China Agricultural University, Beijing 100083, China

Dr. Xiaojie Li

Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing 100101, China

### Deadline for manuscript submissions

20 October 2025



## Water

an Open Access Journal  
by MDPI

Impact Factor 3.0  
CiteScore 6.0



[mdpi.com/si/216357](https://mdpi.com/si/216357)

*Water*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[water@mdpi.com](mailto:water@mdpi.com)

[mdpi.com/journal/  
water](https://mdpi.com/journal/water)





# Water

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 6.0



[mdpi.com/journal/  
water](https://mdpi.com/journal/water)



## 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

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR  
CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique  
(CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane,  
Toulouse, France

---

### 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 (Aquatic Science)