

## Special Issue

# Optimal Water Management and Sustainability in Irrigated Agriculture—2nd Edition

### Message from the Guest Editors

The contribution of irrigation is crucial in agriculture. Therefore, the sustainability of irrigated agriculture demands the efficient management of the available but limited water resources under the existing constraints. Water demand in irrigation is expected to increase in the near future, and it will be seriously impacted by climate change, specifically in arid and semi-arid areas. It is widely believed that an increase in irrigation water use efficiency is the key to addressing water shortage and reducing environmental problems. In this context, robust and optimal approaches are used for improving irrigation water efficiency, energy saving and crop productivity and mitigating economic losses from water scarcity. This Special Issue calls for contributions on sustainable water management in irrigated agriculture, irrigation scheduling, crop allocation, crop production under full and deficit irrigation and optimal design of irrigation networks and on-farm irrigation systems. In addition, studies and best practices on irrigation use efficiency, economic solutions and policy measures for improving crop water productivity and environmental sustainability are also welcome.

### Guest Editors

Prof. Dr. Pantazis E. Georgiou

Laboratory of General and Agricultural Hydraulics and Land Reclamation, School of Agriculture, Faculty of Agriculture, Forestry and Natural Environment, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

Prof. Dr. Dimitrios K. Karpouzos

Laboratory of General and Agricultural Hydraulics and Land Reclamation, School of Agriculture, Faculty of Agriculture, Forestry and Natural Environment, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

### Deadline for manuscript submissions

closed (28 February 2025)



## Agronomy

an Open Access Journal  
by MDPI

Impact Factor 3.3  
CiteScore 6.2



[mdpi.com/si/144908](https://mdpi.com/si/144908)

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

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





# Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 6.2



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



## About the Journal

### Message from the Editor-in-Chief

*Agronomy* draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

*Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

---

### Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,  
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

---

### 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), PubAg, AGRIS, and other databases.

#### Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)