

Special Issue

Water Resource Management in Horticultural Systems

Message from the Guest Editors

Water efficiency is becoming increasingly important in the face of the ongoing climate change. It is crucial to use adequate irrigation to meet plants' water needs and ensure their proper development. Modern irrigation techniques and intelligent solutions in agriculture are becoming increasingly important and help combat water shortages. This Special Issue discusses the use of advanced irrigation systems and their impact on plant crops. It also covers the maintenance and operation of irrigation systems and the relationship between soil, water, and plants. Articles related to water management regarding the ongoing climate change will also be extremely valuable. The main topics covered in this Special Issue include but are not limited to the following:

- Precision and water-saving irrigation;
- Estimation of water requirements of plants;
- Water resource management;
- Innovative irrigation methods;
- Water management in the face of climate change;
- Operational problems of irrigation systems;
- Water–plant–soil relationship;
- Estimation of irrigation doses.

Original research papers as well as review articles are welcome in this Special Issue.

Guest Editors

Dr. Sergio Tombesi

Dr. Joanna Kocięcka

Prof. Dr. Atilgan Atilgan

Deadline for manuscript submissions

closed (30 March 2025)



Horticulturae

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.1



mdpi.com/si/208968

Horticulturae
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
horticulturae@mdpi.com

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





Horticulturae

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 5.1



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



About the Journal

Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Luigi De Bellis
Department of Biological and Environmental Sciences and
Technologies (DiSTeBA), Salento University, Lecce, Italy

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, FSTA, and other databases.

Journal Rank:

JCR - Q1 (Horticulture) / CiteScore - Q1 (Horticulture)