

# Special Issue

## Irrigation and Fertilization Strategies in Orchards

### Message from the Guest Editors

Orchard irrigation and fertilization practices require special attention to optimize all system components in order to achieve efficient water and fertilizer management with minimal environmental impacts, preventing soil salinization, leaching, and contamination of both ground and surface water. Fertilization management of orchards is highly complex, requiring precise knowledge of nutrient requirements in each phenological stage. Traditionally, in rainfed orchards, fertilizers are sprayed to ground; however, in irrigated ones, they can be applied by drip irrigation. However, nutrient inputs have been so far applied without considering spatial variability of field characteristics, resulting in an inefficient management due to under-application or over-application, with negative impacts on crop yields and the environment. The purpose of this Special Issue, "Irrigation and Fertilization Strategies in Orchards", is to present innovative studies, tools, strategies, and techniques recently developed by researchers worldwide, successful in addressing some of these concerns. Articles reviewing the state of the art are also welcome to this Special Issue

---

### Guest Editors

Dr. Anabela A. Fernandes-Silva

Prof. Dr. Teresa Afonso do Paço

Dr. Gonçalo C. Rodrigues

---

### Deadline for manuscript submissions

closed (31 January 2024)



# Horticulturae

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.0  
CiteScore 5.1



[mdpi.com/si/106284](https://mdpi.com/si/106284)

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