

# Special Issue

## Soil Science, Water and Nitrogen Management in Horticultural Production

### Message from the Guest Editor

Water and nitrogen management have a decisive impact on plant growth and the quality of horticultural crops and nitrate contamination of the waters. Thus, improving the sustainability of the water and nitrogen application to horticultural crops without compromising the yield is a priority and a challenge. In irrigated crops, the integrated management of the water quantity and quality (irrigation scheduling and methods, water-saving strategies, etc.) and nitrogen fertilization (inorganic and organic) (amount supply, form and ratio, method of application, etc.) may be the first step to increase water productivity and nitrogen use efficiency, contributing to reduce nitrogen fertilizer application, the levels of nitrate in irrigation water, and nitrate leaching. This Special Issue will examine recent advances in horticultural practices and strategies that integrate the soil, water, and nitrates that can contribute to increased water and nitrogen use efficiency and reduce nitrate leaching.

### Guest Editor

Dr. Rui Manuel Almeida Machado

MED—Mediterranean Institute for Agriculture, Environment and Development, Departamento de Fitotecnia, Escola de Ciências e Tecnologia, Universidade de Évora, Pólo da Mitra, Ap. 94, 7006-554 Évora, Portugal

### Deadline for manuscript submissions

closed (30 September 2023)



# Horticulturae

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.1  
CiteScore 3.5



[mdpi.com/si/113949](https://mdpi.com/si/113949)

*Horticulturae*  
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 3.1  
CiteScore 3.5



[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, Università del Salento, Centro Ecotekne, Via Provinciale Lecce Monteroni, 73100 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 - Q2 (Horticulture)