

Special Issue

Irrigation and Water Management Strategies for Horticultural Systems

Message from the Guest Editors

Water is an essential element for plant growth and one of the main limited resources for agricultural development, especially in arid and semi-arid regions. This Special Issue provides a platform for the discussion of irrigation and water utilization of plants. We welcome original research, modelling approaches and methods, and reviews on water management strategies for horticultural systems. Topics include, but are not limited to, the following: (1) examinations of how plants efficiently perceive and take up water in the soil; (2) diagnosis of water deficiencies; (3) the effects of different water management practices on plant growth, dry matter accumulation and translocation, nutrient uptake, forage quality, yield, and water and fertilizer use efficiencies; (4) optimized irrigation practices, cropping systems, and agronomic strategies for improving water use efficiency; (5) the plant response to water and salt stress; (6) unconventional water resource utilization in horticultural systems; (7) and research on secondary salinization and its prevention and control in facility horticultural soil.

Guest Editors

Dr. Juan Wang

Dr. Chun Cheng Liu

Dr. Bingjian Cui

Deadline for manuscript submissions

closed (10 May 2025)



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

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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

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