

Special Issue

Improve the Quality of Horticultural Products in Controlled Environment

Message from the Guest Editors

The quality of horticultural products is a significant consideration for customers and breeders as there is a growing demand for healthy horticultural crops. Environmental factors such as light, temperature, humidity, carbon dioxide, fertilizers, and fertigation conditions play important roles in regulating the quality of horticultural products. As a result, great progress in agriculture has been made in recent years in controlled environments. In this Special Issue, we would like to publish original research reports and critical reviews concerned with the quality of horticultural products that are affected by environmental factors. Topics might include, but are not limited to, the quality of horticultural products that are affected by microclimate adjustment (e.g., lighting, temperature, humidity, and carbon dioxide), agronomic management (e.g., breeding, irrigation, and fertilization), application of new techniques (e.g., artificial intelligence, advanced materials, and novel design), and coupling of multiple pre-harvest factors. We will particularly consider manuscripts that deal with their underlying mechanisms.

Guest Editors

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Deadline for manuscript submissions

closed (20 February 2025)



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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
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