Special Issue

Optimization of Horticultural Plant Production in Controlled Environments Using Proximal Sensing

Message from the Guest Editors

Nowadays, the production of horticultural crops in protected environments is facing a deep upgrade toward high technological control systems, precision techniques, and more sustainable agronomic practices. Controlled environments are characterized by the possibility to modulate environmental factors such as temperature, humidity, and light as well as the agronomic conditions such as the type of substrate, irrigation, and fertilization. These modulations enhance plant physiology and yield optimizing both quantitative and qualitative aspects of productions. In this context, it is strongly needed the development of non-destructive protocols to evaluate the plant physiological status in real time under different conditions. This Special Issue is aimed at collecting papers using non-destructive methodologies for proximal physiological measurements using portable photonic tools on horticultural plants. Papers dealing with the exploitation of new strategies for reducing the use of fertilizers, water, and phytochemicals are particularly welcomed.

Guest Editors

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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

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