Special Issue

Effects of Light Quantity and Quality on Horticultural Crops

Message from the Guest Editors

Light is the energy source for photosynthesis and is also an important abiotic stress factor that affects the accumulation of secondary metabolites in horticultural crops. Plant species respond differently to varying light conditions. Relatively few changes in spectral composition result in significant differences in crop yield and crop quality. With LED technology, the photon flux density and spectral distribution of illumination can be continuously varied, enabling full optimization of the lighting environment for a particular plant species. Measuring the light response of plants is of utmost importance for controlling the agricultural environment, to identify the trade-off between the energy consumption of artificial lighting and the economic value of the crop. The aim of this Special Issue is to gather horticultural research that reveals the effects and interactions of quantitative lighting parameters (photon flux density, photoperiod, etc.) and the spectral distribution of optical radiation, ranging from UV to far-red radiation.

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Deadline for manuscript submissions

closed (15 June 2024)

Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 5.1

mdpi.com/si/118951

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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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