

Special Issue

LED Lighting to Control Plants' Growth and Development

Message from the Guest Editors

Light plays a crucial role in plant growth and development. It has the fundamental role of fuelling photosynthesis while regulating circadian rhythms and affecting plants' physiology, morphology and secondary metabolism. LED lighting makes it possible to supply light in specific and narrow bandwidths and provides more flexibility in the management of the intensity, duration and spectral composition of light. This creates the possibility of finely tuning plant assimilation processes and regulating the growth and quality of horticultural and ornamental crops in Controlled Environment Agricultural systems. The purpose of this Special Issue, entitled "LED Lighting to Control Plants' Growth and Development", is to present innovative studies regarding plants' photobiology, growth and qualitative responses in relation to LED lighting in CEA systems from supplemental lighting in greenhouses to sole source lighting in vertical farms to produce high-quality and sustainable horticultural, vegetable and ornamental crops from nursery to full plant growth. Submissions of original research, reviews, mini-reviews and methods are welcome.

Guest Editors

Dr. Giuseppe Carlo Modarelli

Dr. Laura Cammarisano

Dr. Yun Kong

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Deadline for manuscript submissions

closed (5 May 2024)



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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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Technologies (DiSTeBA), Salento University, 73100 Lecce, Italy

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