



The Impact of LED (Light-Emitting Diode) Spectra on Plant Growth and Quality 2.0

Guest Editors:

Prof. Dr. Hail Rihan

1. School of Biological and Marine Sciences, University of Plymouth, Plymouth PL4 8AA, UK
2. Consultant Professor, King Abdulaziz City for Science and Technology (KACST), Riyadh 11442, Saudi Arabia

Prof. Dr. Mick Fuller

School of Biological and Marine Sciences, University of Plymouth, Plymouth PL4 8AA, UK

Deadline for manuscript submissions:

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Message from the Guest Editors

Light-emitting diodes (LEDs), a new method, have potential and great importance for use in agricultural production and plant development. LEDs (small in size) can be constructed in arrays big enough to provide enough PAR but still emit less heat than “traditional” high-intensity discharge lighting lamps. LEDs are also known for durability and long operating lifetime. LED arrays can be designed to have wavelength specificity, so that each plant responds differentially to different light wavelengths due to specific differences in their photoreceptors. Plenty of research has investigated the role of LEDs in enhancing plant shape, edible quality, biomass and growth rate. Simultaneously, research has demonstrated the effects of LEDs on chemical compounds, chlorophyll level, and different protein levels of many plant species.

For this Issue, articles that focus on the impact of LED light spectra on plant tissue culture, growth and yield, essential oil content and chemical composition of pharmaceutical plants, plant biochemistry, plant physiology, plant metabolites, and economical analysis of controlled environment agriculture (CEA) systems using LED lights are most welcome.





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Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

Message from the Editor-in-Chief

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Plants Editorial Office
MDPI, St. Alban-Anlage 66
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