



Control of LED Lighting Based on Plant Physiological Principles

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Message from the Guest Editor

Dear Colleagues,

Light is the primary energy source and the most important regulatory factor in the life cycle of plants. Light drives photosynthesis in plants, helping them to build carbon-based materials, and further acts as an environmental signal. Plants respond to the intensity, wavelength, duration, and direction of light. Light emitting diodes (LEDs), recently applied widely for plant cultures, are environmentally-friendly and long-lasting light sources available in the spectral range covering the entire visible and near-UV regions, and supersede conventional lamps in efficiency. This Special Issue on the “Control of LED Lighting Based on Plant Physiological Principles” will focus on the the broad area of plant growth and development including, but not limited to, germination, seedling establishment, photomorphogenesis, and the phase transition and flowering of plants using LED lighting technology.





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