

Special Issue

Light Environment Regulation of Crop Growth

Message from the Guest Editors

Light and its quality strongly influence plant growth and photosynthesis, and thus affect productivity, plant shape, the colour of the leaves, and even the production of secondary metabolites. The high year-round demand for high-quality agricultural and horticultural products means that the volume of crops cultivated with supplemental lighting is constantly rising. Traditional farming is extremely climate- and location-dependent, which makes it difficult to grow food without relying on costly shipments from other regions. LED technologies have opened up many new opportunities in efficient and effective spectral and intensity control that have never been seen before. The construction of modern lamps and control systems has enabled vertical farming technologies to be developed and the testing of new plant varieties in climate-controlled conditions to be undertaken.

The main aim of this Special Issue is to gather the most recent research results related to intensive horticultural production under an optimal light environment.

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