



## LED Lighting in Vegetable Crops

Guest Editors:

**Prof. Dr. Zhonghua Bian**

Institute of Urban Agriculture,  
Chinese Academy of Agricultural  
Sciences, Chengdu 610213, China

**Dr. Kai Cao**

Institute of Agricultural Facilities  
and Equipment, Jiangsu  
Academy of Agricultural  
Sciences, Nanjing 210014, China

Deadline for manuscript  
submissions:

**closed (10 May 2023)**

### Message from the Guest Editors

Dear Colleagues,

Light is not only the driving force for plant photosynthesis but also acts as an important transduction signal in modulating plant growth and endogenous substance metabolism. With the rapid advances in light-emitting diodes (LEDs), light environment regulation using LED light has been a vital strategy in improving vegetable crop yield and quality. With the monochromatic spectrum and flexible and controllable characteristics, LEDs provide great advantages in revealing the mechanism of light (light quality, light intensity, and photoperiod or light duration) on vegetable growth and development. Knowledge obtained in this research topic can provide useful information for high-quality production and artificial light design for greenhouse and vertical farming growth systems.

The aims of this Special Issue are to put forward important research on plant photobiology in vegetable production, presenting recent developments and important accomplishments of LED lighting in vegetable crops





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Luigi De Bellis

Department of Biological and  
Environmental Sciences and  
Technologies, Università del  
Salento, Centro Ecotekne, Via  
Provinciale Lecce Monteroni,  
73100 Lecce, Italy

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, FSTA, and other databases.

**Journal Rank:** JCR - Q1 (*Horticulture*) / CiteScore - Q2 (*Horticulture*)

## Contact Us

---

*Horticulturae* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/horticulturae](http://mdpi.com/journal/horticulturae)  
[horticulturae@mdpi.com](mailto:horticulturae@mdpi.com)  
[X@Horticult\\_MDP](https://twitter.com/Horticult_MDP)