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New Insight for Vegetable Growing in Protected Structure

Guest Editor:

Prof. Dr. Zihui Cheng

College of Horticulture,
Northwest A&F University, 3#
Taicheng Road, Yangling 712100,
Shaanxi, China

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Message from the Guest Editor

Growing vegetables in protected structures is very different from growing them in the open field. To improve vegetable production in protected structures, it is necessary to manage not only environment factors but also crop growth, development, yield, and quality. Among the environment factors involved, light is the leading factor that affects both other environment factors, such as temperature and humidity, and plant growth through light intensity, quality, and duration. Similar to temperature, the relative humidity in protected structures is often high, which may induce infectious diseases and cause stress to some vegetable crops. Atmospheric gases, especially carbon dioxide, affect plant growth, respiration, photosynthesis, and so on. The management of water and nutrients in soil and vegetable plants in protected structures must be constantly improved along with the development of the vegetable industry. The investigation of the effects of these biological factors on vegetable crops and of breeding and cultivar selection for vegetable production in protected structures will provide new insights into growing vegetables in protected structures.



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Special Issue



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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

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

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