



## Innovative Technologies and Production Strategies for Sustainable Controlled Environment Horticulture

Guest Editors:

**Dr. László Sipos**

**Dr. László Csambalik**

**Dr. Anna Divéky-Ertsey**

Deadline for manuscript  
submissions:  
**closed (31 January 2024)**

### Message from the Guest Editors

Dear Colleagues,

Recent progress in controlled environment agriculture (CEA) has opened the gate to the integration of smart technological innovations in protected plant cultivation. High investment costs are the main barriers; therefore, the settlement of such facilities is reasonable and profitable only in special situations and locations. With the development of technology, CEAs' high initial costs are expected to decrease, which could support the more widespread application of such systems.

The role of CEA in world agriculture, its integration, and its contribution to food security is still unclear. The sustainability of CEA systems are believed to be very high; however, there is a limited number of studies available to date. Nowadays, plant production in such systems has several limitations, which can be overcome by changing the common agricultural approach and adapting the technology to new expectations. The application of CEA systems requires fundamental changes in the classical approach to plant production, including species and variety selection, plant nutrition, and plant production.

*Guest Editors*





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, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/horticulturae  
horticulturae@mdpi.com  
X@Horticul\_MDPI