





an Open Access Journal by MDPI

# **Indoor Farming and Artificial Cultivation**

Guest Editors:

### Prof. Dr. Alberto Pardossi

Department of Agriculture, Food and Environment, University of Pisa, 56124 Pisa, Italy

### Dr. Luca Incrocci

Department of Agriculture, Food and Environment, University of Pisa, 56124 Pisa, Italy

### Dr. Martina Puccinelli

Department of Agriculture, Food and Environment, University of Pisa, 56124 Pisa, Italy

Deadline for manuscript submissions:

31 August 2024

## **Message from the Guest Editors**

Dear Colleagues,

There is growing interest in indoor farms (or plant factories), which are expressly designed to provide an optimal environment for crop plants. These typically include vegetable and medicinal species. The objective of a precise control of plant growth and development is obtained through a strict control of internal climate and the application of close-loop hydroponic system. Indoor farms have evolved from greenhouse crop environments, from which they differ in location (they are built in an urban environment), dependence on artificial lighting (with obvious effects on electricity consumption) and, often, on multi-layer cultivation (vertical farm is synonymous with indoor farm). The sustainability of indoor farms essentially depends on the reduction in energy consumption and on the increase in production and its commercial value (e.g., bio-fortification, pesticide-free application of specific techniques to improve the nutraceutical quality of fresh vegetables).











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**