horticulturae

IMPACT FACTOR 3.1

CITESCORE 2.4

an Open Access Journal by MDPI

Controlled Environment Agriculture (CEA) for High Quality Medicinal and Aromatic Plants

Guest Editors:

Prof. Dr. Silvana Nicola
Department of Agricultural, Forest, and Food Sciences (DISAFA), Vegetable Crops and Medicinal and Aromatic Plants (VEGMAP), University of Turin, Grugliasco, Italy

Dr. Saeid Hazrati
Department of Agronomy and medicinal plants, Faculty of Agriculture, Azarbaijan Shahid Madani University, Tabriz 53714-161, Iran

Deadline for manuscript submissions:
closed (20 March 2024)

Message from the Guest Editors

The type and concentration of the bioactive compounds produced by a plant are influenced by a multitude of factors during growth. The most relevant are light irradiation, temperature, water, CO2 and nutrient availability and soil characteristics. All these aspects variably affect the quality and quantity of the secondary metabolites, limiting the extensive exploitation. Improving the productivity of medicinal and aromatic plants requires innovative solutions that increase yields and quality from greenhouse to indoor farming.

This Special Issue aims to publish articles improving our knowledge of how to enhance the content in bioactive substances through plant cultivation systems with CEA, from greenhouses to indoor farms. Investigations or reviews on soilless culture systems, bioreactors, hydroponics, aeroponics, fogponics and any other advanced and controlled system are welcome, unravelling the influences of light, nutrients, water, relative humidity, air or root temperature, CO2, eustress, and elicitors on the bioactive compounds. Life cycle assessment (LCA), facility planning, and system efficiency evaluations will also be accepted.

mdpi.com/si/152181

Special Issue

horticulturae

IMPACT FACTOR 3.1

CITESCORE 2.4

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

mdpi.com/journal/horticulturae
horticulturae@mdpi.com
𝕏@Horticul_MDPI