horticulturae

IMPACT FACTOR 3.0

CITESCORE 5.1

an Open Access Journal by MDPI

Application of Non-Destructive Detection Techniques in Horticultural Plants

Guest Editors:

Dr. Danial Fatchurrahman
Research Unit in Postharvest Technology, Department of Agriculture, Food, Natural Science, Engineering, University of Foggia, Via Napoli 25, 71122 Foggia, Italy

Dr. Laifeng Lu
College of Food Science and Engineering, Tianjin University Science and Technology, State Key Laboratory of Food Nutrition and Safety, Tianjin 300457, China

Dr. Anisur Rahman
Department of Farm Power and Machinery, Bangladesh Agricultural University, Mymensingh 2202, Bangladesh

Message from the Guest Editors

Non-destructive detection techniques have recently emerged as a powerful analytical technique with the advantages of fast speed, convenient operation, and easy online inspection of various horticultural products. In recent years, non-destructive detection techniques (such as visible, near- and mid-infrared spectroscopy (VIS-NIRS), fluorescence spectroscopy, hyperspectral imaging (HSI), X-ray imaging, CT scan imaging, electronic nose, machine vision, and thermal imaging) have found numerous successful applications in horticultural product quality detection. These techniques are used to determine quality features and analyze horticultural products in a non-destructive way with minimal sample preparation. The resulting datasets are usually high dimensional and complex, requiring methods of pattern recognition or predictive analysis to extract quality information. This Special Issue aims to focus on the latest research progress of the application and jointly discuss the focus of non-destructive detection techniques in horticultural products.

Deadline for manuscript submissions:
5 September 2025

mdpi.com/si/209229

Special Issue

horticulturae

IMPACT FACTOR 3.0

CITESCORE 5.1

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Luigi De Bellis
Department of Biological and Environmental Sciences and Technologies (DiSTeBA), Salento University, 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 - Q1 (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