

Special Issue

Postharvest Treatments for Preserving Quality and Reducing Food Loss in Horticultural Products

Message from the Guest Editors

Food loss and waste are major global challenges, with significant post-harvest losses from quality deterioration. This Special Issue showcases recent advances in postharvest technologies/biological strategies to maintain product quality, prolong shelf-life, minimize waste. We welcome original research articles/reviews on:

- Innovative physical/chemical treatments (cold chain optimization, modified atmospheres, heat treatments, edible coatings, UV-C, ozone, irradiation, pulsed electric fields, cold plasma)
- Plant-derived elicitors, biostimulants, biocontrol agents: delay ripening, chilling injury, physiological damage, senescence; reduce microbial spoilage
- Metabolic pathways, stress responses (ripening, intrinsic defense, signaling: jasmonates/ethylene, phytohormones) to enhance beneficial secondary metabolites, antioxidant accumulation, cell wall degradation
- Omics approaches (transcriptomics, metabolomics) for molecular-level quality maintenance
- Smart packaging, nanomaterials: quality monitoring, targeted compound release

This Special Issue advances postharvest physiology, innovative technologies, practical/sustainable solutions to reduce food loss, enhance horticultural crop value.

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About the Journal

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.

Editor-in-Chief

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