

Special Issue

Applications of Rapid Non-Destructive Technology in Food Quality and Safety Detection

Message from the Guest Editors

This Special Issue, entitled "Applications of Rapid Non-Destructive Technology in Food Quality and Safety Detection", highlights cutting-edge advancements in real-time monitoring of food integrity at every stage—from farm to fork. It compiles interdisciplinary research on hyperspectral imaging, spectroscopic sensors, AI-driven pattern recognition, and emerging techniques such as terahertz spectroscopy to address challenges in contamination detection, shelf-life prediction, and intrinsic quality assessment. Coverage spans applications in perishable commodities (fruits, meat), processed foods (packaging integrity, allergen screening), and emerging contaminants (mycotoxins, antibiotic residues), focusing on integrating these technologies into smart manufacturing workflows. By addressing technical barriers (e.g., standardization, cost-effectiveness) and regulatory compliance, this Special Issue will bridge the gap between laboratory-scale innovation and industrial scalability. We invite contributions that explore the transformative potential of non-destructive technologies to shape the future of food safety analytics

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, *Foods* has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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