

Special Issue

Development and Application of Non-Destructive Technology in Food Safety and Quality

Message from the Guest Editor

Spectroscopic techniques (such as time domain NMR, infrared, fluorescence, Raman, hyperspectral imaging), as well as advanced imaging and sensor-based systems, enable the evaluation of chemical composition, physical structure, molecular dynamics, and water or lipid distribution in food matrices. These methods are also powerful in monitoring degradation, oxidation, and other processes that directly impact food quality. Equally relevant are applications in food authentication, where non-destructive approaches allow the detection of adulterants and contaminants in oils, dairy products, meats, grains, beverages, and fruits. Coupled with chemometric and multivariate data analysis, these techniques provide robust insights into complex datasets, supporting both scientific research and industrial practice. This Special Issue will highlight advances in the development and application of non-destructive technologies in food safety and quality. We invite contributions that demonstrate innovations in spectroscopy, imaging, sensor systems, and data-driven methods, helping to bridge fundamental science with practical applications.

Guest Editor

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Deadline for manuscript submissions

closed (10 May 2026)



Foods

an Open Access Journal
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Impact Factor 5.1
CiteScore 8.7
Indexed in PubMed



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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.

Editor-in-Chief

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