Special Issue

New Analytical Techniques in Food

Message from the Guest Editors

Dear colleagues, Food analysis provides information on the chemical composition of a food and its compliance with relevant laws through quality control processes and by confirming its authenticity. There are various analytical techniques that are used for foods, however simplicity, accuracy, and precision are the most important characteristics for such methods. Chromatographic techniques provide analytical accuracy and precision for chemical identification and quantification, while vibrational spectroscopy offers simple, fast, and non-destructive capabilities. Advancements in semiconductors and optical sensor technology have led to a new generation of miniaturized optical systems with similar or superior performance to their counterpart benchtop units.

This Special Issue seeks articles demonstrating recent progress in vibrational spectroscopy and chromatography in food science applications. Articles focusing on novel device technologies and with a focus on miniaturization or the application of these technologies for the characterization of food products are greatly welcomed.

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).