Special Issue

Food Analysis: Ensuring Safety, Quality, and Authenticity

Message from the Guest Editors

Food analysis plays a central role in protecting public health and maintaining consumer confidence by ensuring the safety, quality, and authenticity of food products. Advances in analytical chemistry, molecular biology, and data science have significantly enhanced our capacity to detect contaminants, residues, allergens, pathogens, adulterants, and food fraud within complex matrices. Molecular biology techniques, such as PCR-based methods, DNA barcoding, and next-generation sequencing, have become indispensable tools for species identification, authenticity verification, and traceability, effectively complementing classical chemical analyses. Reliable food analysis underpins regulatory compliance, risk assessment, and quality control across the entire food supply chain. In parallel, growing consumer expectations regarding transparency, origin verification, and sustainability demand robust and sensitive methodologies. Modern approaches, including chromatography, mass spectrometry, spectroscopy, biosensors, and omics technologies, combined with chemometric and statistical tools, provide comprehensive solutions to emerging challenges in food analysis.

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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