Special Issue

Research Progress in Detection Technology for Dairy Food Quality and Safety

Message from the Guest Editor

With increasing consumer demand for transparency, authenticity, and nutritional value, there is a growing need for advanced, reliable, and rapid detection technologies throughout the dairy supply chain. This Special Issue aims to gather cutting-edge research and innovative applications in analytical methods and sensor technologies designed to monitor and assess the quality, safety, traceability, and authenticity of dairy foods. Topics of interest include, but are not limited to, novel approaches in spectroscopic analysis, chromatography, biosensors, lab-on-a-chip systems, and multi-omics tools. Particular attention will be given to integrated platforms and data fusion strategies that combine chemical, microbiological, and physical analyses to provide a comprehensive assessment of dairy matrices. Contributions focusing on real-time monitoring, non-destructive testing, and high-throughput screening are especially welcome. We invite researchers and practitioners from academia, industry, and regulatory agencies to contribute original research articles, reviews, and case studies that highlight recent progress and emerging trends in this field.

Guest Editor

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Deadline for manuscript submissions

31 December 2025

Foods

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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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