

Special Issue

Advanced Methods and Techniques: Ensuring and Improving Food Safety and Quality

Message from the Guest Editors

Ensuring food safety and quality remains a global priority as supply chains become more complex and consumer expectations rise. This Special Issue highlights recent advances in analytical methods, monitoring technologies, and data-driven approaches designed to detect, prevent, and manage risks across the food supply chain. Contributions are expected to explore cutting-edge techniques such as high-resolution mass spectrometry, next-generation sequencing, biosensors, and artificial intelligence, which are reshaping how we assess contaminants, pathogens, and overall product integrity. Emphasis will also be placed on emerging strategies for traceability, real-time monitoring, and the integration of foodomics to support evidence-based decision-making. By showcasing innovative tools and interdisciplinary solutions, this issue aims to support researchers, policymakers, and industry stakeholders in strengthening food safety systems and enhancing product quality from farm to fork.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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