

## Special Issue

# Advanced Intelligent Detection and Processing Technology and Equipment for Food Safety and Quality

### Message from the Guest Editors

The escalating global demand for food and agricultural products, along with rising quality expectations, has driven the need for advanced food processing and detection technologies. While innovative approaches, such as numerical optimization, spectral imaging, and sensor networks, show potential for enhancing productivity and reducing waste, challenges remain in scalability, cost-effectiveness, and robustness. Future research should focus on simplifying system complexity and enhancing deployability in commercial environments. This Special Issue welcomes original research on advanced processing technologies that improve food quality, as well as novel analytical methods and chemometric tools for safety monitoring and quality assessment. Contributions may include, but are not limited to: emerging food processing techniques for quality enhancement; innovative detection strategies and data analysis for safety inspection; and predictive modeling, process control, optimization, and AI/ML applications in food systems. Research articles may cover non-destructive quality evaluation methods and processing technologies such as near-infrared spectroscopy and machine vision.

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### Guest Editors

Dr. Yawen Xiao

Prof. Dr. Anqi Li

Dr. Yanlong Han

Dr. Yang Liu

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### Deadline for manuscript submissions

closed (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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### Editor-in-Chief

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