

## Special Issue

# Sustainable Development in Food Quality and Safety

### Message from the Guest Editors

The sustainability and quality of agri-food systems are vital for food security, environmental health, and economic viability. Sustainable systems use practices that protect ecosystems, enhance soil fertility, and lower carbon footprints, addressing climate change and resource depletion. Quality encompasses not only nutritional value and food safety but also ethical aspects like fair labor practices and animal welfare. Innovative methods such as precision and organic farming, aquaponics, and hydroponics are making farming more sustainable and efficient. These approaches help build resilient food systems by promoting biodiversity, reducing waste, and improving water management. In the food industry, applying circular economy principles, sustainable packaging, reducing food waste, and using renewable energy benefit both producers and consumers. Sustainability can be assessed through life-cycle tools like life-cycle assessment (LCA), life-cycle costing (LCC), and social life-cycle assessment (S-LCA), integrating environmental, economic, and social dimensions.

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 December 2025)



## Sustainability

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## Editor-in-Chief

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