

Special Issue

Innovations in Sustainable Food Processing Technologies

Message from the Guest Editors

The food industry faces the dual challenge of ensuring global food security while minimizing environmental impacts. This Special Issue focuses on innovative, sustainable food processing technologies that enhance food quality, safety, and shelf life while addressing energy efficiency, waste reduction, and resource conservation. Topics include advancements in non-thermal processing (e.g., high-pressure processing, pulsed electric fields), energy-efficient drying methods, circular economy approaches for waste valorization, and the development of biodegradable and edible packaging solutions. Emerging technologies such as nanotechnology, AI-driven food processing, enzyme-assisted processing, and precision fermentation are particularly welcome. This Special Issue aims to provide a platform for interdisciplinary research and practical solutions that promote sustainability across the food supply chain and support environmental and economic goals.

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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