

## Special Issue

# Sustainable Food Systems and the Reuse of Food Waste

### Message from the Guest Editors

This Special Issue addresses the pressing challenge of agri-food waste management in a circular food economy. We seek contributions that convert these liabilities into assets through resource-efficient valorization: green extraction of high-value compounds (polyphenols, dietary fibres, proteins/peptides, lipids, pigments); microbial and enzymatic conversions to biochemicals, biopolymers, biofertilizers, and bioenergy; and integrated biorefinery strategies that cascade products and close loops. We also welcome work on fermentation of side streams with probiotic or starter cultures; synbiotic designs coupling probiotic strains with prebiotics recovered from wastes (e.g., pectins, arabinoxylans, resistant starch); process solutions to preserve viability (encapsulation, gentle drying) and tailor functionality (postbiotics, metabolites); and evaluations of safety, stability, and efficacy.

Key topics include feedstock characterization and pretreatment, process and reactor design, low-impact separation and purification, quality of recovered ingredients, and integration with food and feed supply chains, alongside techno-economic and life-cycle assessments.

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### Guest Editors

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### Deadline for manuscript submissions

31 December 2026



## Sustainability

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## Editor-in-Chief

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