

## Special Issue

# Emerging Technologies for the Valorization of Agro-Food Byproducts into Functional Ingredients and Foods

### Message from the Guest Editors

This Special Issue on "*Emerging Technologies for the Valorization of Agro-Food Byproducts into Functional Ingredients and Foods*" aims to bring together high-quality original research articles and review papers that explore innovative, sustainable, and efficient processing strategies for converting agro-food byproducts into value-added ingredients and food products. The goal is to highlight recent advances in emerging technologies that enhance the nutritional, functional, physicochemical, and sensory properties of food systems derived from agro-industrial residues. Topics of interest include, but are not limited to, the following:

- Microencapsulation of bioactive compounds;
- Ultrasound-assisted extraction and processing;
- Spray-drying, freeze-drying, and vacuum drying techniques;
- Recovery of natural antioxidants, pigments, and dietary fiber;
- Fortification and functionalization of food matrices;
- Development of novel food products using agro-food byproducts;
- Nutritional, techno-functional, and sensory evaluation;
- Controlled release systems and bioactive stability;
- Use of local biodiversity and underutilized crops;
- Circular economy and sustainability in food processing.

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### Guest Editors

Prof. Dr. Carlos A. Ligarda-Samanez

Prof. Dr. David Choque Quispe

Dr. Betsy S. Ramos-Pacheco

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### Deadline for manuscript submissions

15 October 2026



## Processes

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