

Special Issue

Valorization of Agri-Food Wastes: Extraction, Characterization and Functional Applications of Bioactive Compounds

Message from the Guest Editor

Agri-food waste has emerged as a significant global concern, contributing to environmental burden while simultaneously representing an underutilized resource rich in valuable bioactive compounds.

This Special Issue aims to explore cutting-edge research on the recovery, characterization, and utilization of bioactive compounds derived from agri-food residues. Emphasis is placed on interdisciplinary approaches integrating green extraction technologies, biochemical analysis, and practical applications in food and nutraceutical systems.

Original research articles and review papers are welcome, and research areas may include, but are not limited to, the following:

- Green extraction technologies (ultrasound, microwave, enzymatic, supercritical fluid);
- Characterization of bioactive compounds (polyphenols, carotenoids, peptides, etc.);
- Functional and antioxidant properties;
- Applications in functional foods, probiotics, and plant-based products;
- Food waste bioconversion and fermentation;
- Circular economy and sustainability in food systems;
- Encapsulation and delivery systems

We look forward to receiving your contributions.

Guest Editor

Dr. Pittaya Chaikham

Faculty of Science and Technology, Phranakhon Si Ayutthaya Rajabhat University, Phranakhon Si Ayutthaya Rajabhat 13000, Thailand

Deadline for manuscript submissions



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Message from the Editor-in-Chief

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Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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