

Special Issue

Advanced Processing and Integration of Functional Ingredients in Sustainable Food Systems

Message from the Guest Editors

The development of sustainable food systems increasingly depends on the adoption of responsible design of processes when obtaining and applying functional ingredients. This Special Issue aims to explore innovative and eco-efficient strategies for extracting, stabilizing, and incorporating functional compounds into food products, with a focus on minimizing environmental impact while maximizing health benefits and consumer acceptance. Topics of interest include, but are not limited to, the following areas:

- Sustainable extraction and processing of bioactive compounds.
- Valorization of agri-food by-products and upcycled ingredients.
- Integration of functional ingredients into food matrices.
- Process modeling, optimization, and life cycle assessment (LCA).
- Encapsulation, stabilization, and controlled release systems.

This Special Issue welcomes original research that offers insights into both technological innovation and practical implementation in the development of sustainable and functional food systems. We hope you will consider participating in this Special Issue.

Guest Editors

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Editor-in-Chief

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