

Special Issue

Value-Added Applications of Agricultural Byproducts: Bioactive Components and Sustainable Processing

Message from the Guest Editor

The sustainable utilization of agricultural by-products has become a key strategy to advance the circular bioeconomy and mitigate environmental impacts. These agro-industrial side streams, often discarded or underexploited, are valuable sources of bioactive ingredients that can contribute to improving the quality, functionality and safety of agricultural and agri-food systems. Recent advances in green extraction and biorefinery concepts have opened new opportunities. This Special Issue aims to gather interdisciplinary studies focused on the recovery, purification, characterization and application of bioactive ingredients derived from agricultural by-products. Topics of interest include but are not limited to: Green and sustainable extraction or fractionation techniques for agro-residues. Natural antioxidants, antimicrobial agents and their role in agricultural product quality and safety. Post-harvest valorization strategies for agricultural by-products. Circular bioeconomy approaches and sustainability metrics in agro-industrial chains. Nanoencapsulation and delivery systems of bioactive components for post-harvest preservation and quality.

Guest Editor

Dr. Anna Paula Azevedo De Carvalho

Research Support Group on Nanomaterials, Polymers, and Interaction with Biosystems (BioNano), Department of Biochemistry, Chemistry Institute, Federal University of Rio de Janeiro (UFRJ), Rio de Janeiro, Brazil

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Agriculture
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriculture@mdpi.com

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Message from the Editor-in-Chief

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Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental
Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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