

Special Issue

Bioactive Compounds from Agricultural Products and By-Products: Extraction, Characterization, and Potential Applications

Message from the Guest Editors

Bioactive compounds (polyphenols, flavonoids, alkaloids, terpenoids, proteins, peptides) are known for their beneficial biological activities. The extraction and characterization of these compounds not only offer an eco-friendly approach to waste management but also contribute to the development of high-value ingredients with potential applications in the food, pharmaceutical, cosmetic, and agricultural sectors.

This Special Issue aims to highlight recent advancements in the extraction, characterization, and application of bioactive compounds derived from agricultural products and by-products, as well as their uses in industrial sectors. Focus is placed on innovative solutions in the fields of biostimulants and biopesticides in the context of sustainable agriculture. Additionally, the issue explores the use of bioactive compounds as functional food additives, focusing on their potential to enhance the nutritional value and health benefits of food products.

This Special Issue will highlight the need for rigorous safety assessments, effective quality control measures, and comprehensive regulatory frameworks to ensure the responsible integration into products and practices.

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Message from the Editor-in-Chief

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