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New Horizons in the Synthesis, Recovery and Application of Bioactive Compounds Using Eco-Friendly Approaches

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Message from the Guest Editors

In recent years, there has been a growing interest in bioactive compounds such as pigments, minerals, polysaccharides, organic acids, dietary fibres, sugars, lipids, vitamins, protein hydrolysates and phytochemicals (polyphenols and carotenoids), serving not only as nutrients but also as natural additives and functional food ingredients with many beneficial health effects. Advances in their synthesis and/or extraction from plants have mostly been encouraged by the twelve principles of green chemistry, where three of them concern the use of solvents, safer reaction conditions, and waste prevention. The toxic and volatile nature of many organic solvents commonly used in the recovery of plant bioactive compounds have raised concerns about the environment and human health, thus stimulating innovations in extraction techniques. This Special Issue focuses on new horizons in the synthesis, recovery and application of bioactive compounds using eco-friendly approaches, including emerging extraction technologies, process optimization studies, and nutritive, functional, and pharmacological profiling toward the comprehensive utilization of bioactive compounds within the food industry.



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Special Issue



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Message from the Editor-in-Chief

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