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Sustainable Unconventional Processes for the Recovery and Enhancement of Functional Compounds from Plant Foods

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Message from the Guest Editor

Dear Colleagues,

In food and feed production, the use of plant extracts is a strategy of growing interest to replace the use of chemical and synthetic additives or ingredients.

In this context, industries are actively seeking new plant sources and environmentally friendly extraction methods for the recovery and encapsulation of these active compounds.

Recently, unconventional and innovative extraction techniques using ultrasounds, microwaves, high pressures, supercritical fluids, natural deep eutectic solvents, pulsed electric fields, etc., have been developed to recover bioactive compounds from plants and their byproducts to achieve acceptable results in terms of both the yield and environmental sustainability of the applied process.

In light of these considerations, this Special Issue will cover the most up-to-date knowledge on the green extraction/encapsulation of plant food products and byproducts in terms of innovative processes, methods, alternative solvents, and product safety, contributing to increasing the overall knowledge of plant-based phytochemicals, their biological activities, and innovative as well as sustainable processes.



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Guest Editor

Special Issue



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Message from the Editor-in-Chief

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