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Green Extraction Methods in Food Systems

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Message from the Guest Editors

When compared to traditional methods, advanced green procedures require shorter times, are energy efficient, and enable the efficient extraction of bioactive compounds with different polarities using reduced amounts of bio-based solvents while replacing harmful and hazardous ones. Thus, these novel methodologies for extraction have been used to mitigate the current challenges associated with the traditional extraction methods. Sustainable extraction methods include non-thermal treatment methods such as ultrasound-assisted extraction (UAE), microwave-assisted extraction (MAE), supercritical fluid extraction (SFE), high-pressure extraction (HPE), and enzyme-assisted extraction (EAE). However, although no single extraction method is capable of extracting all the desired components from food sources in an efficacious manner, these alternative techniques provide potential tools with which to develop eco-friendly processes that are safer and facilitate the production of high-quality extracts with applications in the field of functional food.



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Special Issue



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