

Special Issue

Sustainable Approaches to Natural Product Extraction in Food Systems

Message from the Guest Editor

The Special Issue, “Sustainable Approaches to Natural Product Extraction in Food Systems”, will address the growing need for environmentally friendly and resource-efficient methods to recover bioactive compounds and other natural products from food and food by-products. Conventional extraction processes often rely on hazardous solvents and high-energy inputs, creating both ecological and economic challenges. In response, increasing attention is being directed toward green technologies that contribute to sustainable food production and circular economy principles. This Special Issue invites contributions on innovative extraction methods such as supercritical fluid, ultrasound- and microwave-assisted, pressurized liquid, and enzyme-assisted processes, as well as the use of renewable and food-grade solvents, including natural deep eutectic solvents and ionic liquids. It will also include research on process-intensification strategies, the valorization of agricultural residues, and the integration of life cycle assessment and techno-economic analysis to better evaluate the sustainability of new approaches.

Guest Editor

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I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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