# **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 resourceefficient 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 technoeconomic analysis to better evaluate the sustainability of new approaches.

### **Guest Editor**

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### Deadline for manuscript submissions

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### Editor-in-Chief

Prof. Dr. Steve W. Lyon

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