

Special Issue

Advanced Analytical Methods for Plant Phytochemistry and Food Matrices

Message from the Guest Editors

Topics of interest include, but are not limited to, the following: Innovative Extraction Techniques: Development and optimization of green and emerging methods (e.g., SPME, MAE, UAE, and SFE) to enhance yield and reduce environmental impact. High-Resolution Separation: Advancements in Gas Chromatography (GC), Liquid Chromatography (LC), and multidimensional techniques (GC×GC, LC×LC) for complex matrix profiling. Hyphenated Techniques: Applications of MS, HRMS, and NMR for the structural elucidation of novel phytochemicals. Food Matrix Analysis: Novel protocols for assessing food quality, authenticity, and the stability of bioactive components during processing. Metabolomics and Chemometrics: Use of advanced data processing to understand plant–environment interactions and food composition.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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