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Ultra Performance Liquid Chromatography - Mass Spectrometry: Evaluation and Applications in Food Analysis

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Message from the Guest Editors

The use of ultra-high performance liquid chromatography coupled to mass spectrometry (UHPLC-MS) is increasing as a valid method/platform in food science for assessing food quality, safety, and traceability in a robust, efficient, sensitive, and cost-effective way.

The diffusion of UHPLC-MS instruments opened new frontiers and possibilities for scientists to characterize and determine food proteomes and metabolomes, but also for food authentication and pesticide residue analyses. These qualitative and quantitative analyses can also provide insights into food industrial processes as well as the use of adulteration practices, and the presence of food contaminants.

In addition, the advent of this analytical equipment coupled to chemometric techniques now offers enormous opportunities to obtain detailed information that can be correlated with various food properties and functionalities, which improve the scope of traditional targeted analysis, providing a new opportunity to investigate hitherto unresolved topics and problems in food science.



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Special Issue



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Message from the Editor-in-Chief

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