

Special Issue

Identification, Characterization, and Quantification of Food Compounds Using Chromatography and Mass Spectrometry: Second Edition

Message from the Guest Editors

Chromatography has become indispensable for the qualitative and quantitative analysis of a vast number of compounds in complex mixtures. In particular, gas chromatography (GC) and high-performance liquid chromatography (HPLC) have been widely used in food science. These techniques are often coupled to mass spectrometers, which are increasingly recognised as powerful tools for the unequivocal identification of specific compounds. HPLC-MS and GC-MS have been subjected to extensive and continuous improvements, allowing for the detection of bioactive compounds, food contaminants, toxins, and aroma compounds in different food matrices.

This Special Issue in *Foods* aims to gather the latest research including, but not limited to, the identification and quantitation of food bioactive compounds, flavor and aroma compounds, environmental pollutants, adulterants, pesticides, mycotoxins, natural toxins, veterinary and human drugs, and the toxins generated during food processing and packaging materials. The development and validation of extraction and chromatographic methods, the identification of existing challenges, and possible future approaches will also be considered.

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About the Journal

Message from the Editor-in-Chief

Foods (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, *Foods* has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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