Special Issue

Instrumental and Chemometric Methodologies to Assess Food Quality

Message from the Guest Editors

Currently, the use of instrumental methodologies for the evaluation of food quality has gained growing relevance due to their precision, speed, and ability to provide objective data. Instrumental techniques, such as chromatographic techniques (GC, HPLC), spectroscopic techniques (NIR, Raman, fluorescence...), imaging techniques, or electrochemical sensors, are increasingly employed to obtain detailed chemical, physical, and structural information about food products. These instrumental approaches are suitable for both laboratory and on-site applications. However, they often generate complex datasets that require advanced chemometric tools for meaningful interpretation. The integration of instrumental techniques with data analysis enables comprehensive assessments, including authentication, food adulteration, shelf-life prediction, and safety evaluation. This Special Issue focuses on the development and application of instrumental methodologies—individually or in combination—for the assessment and control of food quality. Emphasis is placed on practical implementations and scientific advances that support a more accurate, efficient, and reliable food quality evaluation process.

Guest Editors

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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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