

Special Issue

Analytical Methods for Safety and Quality Control of Functional Food

Message from the Guest Editors

Functional foods represent an interdisciplinary frontier combining food science and preventive medicine. Food safety and quality are the core of functional foods research and development, supported by analytical techniques such as chromatography, spectroscopy, mass spectrometry, and enzymatic assays. GC-MS is a powerful tool for detecting volatile compounds, pesticide residues, and harmful chemicals due to its high sensitivity and accuracy. Near infrared spectroscopy offers a cost effective, indirect analytical approach, while enzyme immunoassay readers are widely used in food safety testing and biopharmaceuticals. Research in functional foods and food quality analysis holds significant theoretical and practical value for global strategies promoting disease prevention through diet. We welcome original research and review articles that provide new insights into analytical methods for food safety and quality, and we hope this Special Issue will inspire further advances in functional food development.

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As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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