

Special Issue

Dietary Bioactive Compounds: Analytical Challenges and Health Perspectives

Message from the Guest Editor

Dietary bioactive compounds—such as polyphenols, carotenoids, alkaloids, peptides, and phytosterols—play a crucial role in modulating human health. Their potential benefits encompass antioxidant, anti-inflammatory, cardioprotective, neuroprotective, and anticancer activities. Understanding their impact on human health requires accurate identification, quantification, and characterization through robust analytical methods. This Special Issue aims to highlight recent advances in the analytical determination of dietary bioactive compounds and/or metabolites in various food matrices, including raw and processed products. We welcome authors to submit contributions focusing on the development, validation, and application of advanced analytical techniques, as well as studies exploring bioaccessibility and bioavailability. These should take the form of original research articles, reviews, and methodological papers.

Guest Editor

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Message from the Editor-in-Chief

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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