

Special Issue

Phenolic Compounds: Extraction, Chemical Profiles, and Bioactivity

Message from the Guest Editors

Phenolic compounds represent one of the most diverse and bioactive classes of secondary plant metabolites, widely recognized for their antioxidant, anti-inflammatory, antimicrobial, and therapeutic properties. In recent years, advances in extraction technologies, sustainable sourcing strategies, and analytical methods have significantly expanded our understanding of phenolic compounds, both in their natural matrices and as functional ingredients in food, pharmaceutical, and environmental applications. This Special Issue aims to provide an updated, multidisciplinary perspective on the extraction, chemical profiling, and bioactivity of phenolic compounds. Particular emphasis will be placed on innovative, eco-friendly extraction methods, such as ultrasound-assisted extraction and the use of natural deep eutectic solvents, as well as the valorization of agro-industrial by-products as sustainable sources of phenolics. Contributions addressing the structural characterization and comprehensive chemical profiling of phenolic compounds using advanced chromatographic and spectrometric techniques are especially welcome.

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About the Journal

Message from the Editor-in-Chief

As a new international and multidisciplinary peer-reviewed open access journal for multidisciplinary chemistry focused on chemical compounds, Compounds (ISSN 2673-6918) has been founded to publish reviews, original research papers, communications, case reports, letters, and short notes. Our goal is for Compounds to become a journal where the scientific community can present their results under open access. Our core objective is to provide high-quality research contributions in a wide range of chemistry areas. Manuscripts dealing with chemical compounds; the relationship between structure, properties, and/or functions of all kinds of compounds; as well as chemical theory and applications are welcome.

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