molecules

an Open Access Journal by MDPI

IMPACT FACTOR 4.6

Indexed in: PubMed

CITESCORE 8.6

Research on Polyphenolic Compounds from Nature Products: Extraction, Analysis and Biological Properties

Guest Editor:

Dr. Ireneusz Kapusta
Department of Food Technology and Human Nutrition, Faculty of Biology and Agriculture, Rzeszow University, 35-601 Rzeszow, Poland

Deadline for manuscript submissions:
closed (31 May 2024)

Message from the Guest Editor

Phenolic compounds are ubiquitous in plants that collectively synthesize several thousand different chemical structures characterized by hydroxylated aromatic rings. These compounds play several important functions in plants, representing a striking example of metabolic plasticity, enabling plants to adapt to changing biotic and abiotic environments, and conferring color, taste, technological properties, and putative health-promoting benefits on plant products. Phenolic compounds are the most studied phytochemicals and have been widely exploited as model systems in different areas of plant research. These components are known as secondary plant metabolites and also possess antimicrobial, antiviral, and anti-inflammatory properties, along with their high antioxidant capacity. Many efforts have been made to provide a highly sensitive and selective analytical method for the determination and characterization of polyphenols. The aim of this Special Issue is to provide information on the most recent developments in the chemical investigation of polyphenols, emphasizing the extraction, separation, and analysis of these compounds via chromatographic and spectral techniques.

molecules

an Open Access Journal by MDPI

IMPACT FACTOR 4.6 | Indexed in: PubMed | CITESCORE 8.6

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.
Journal Rank: JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Contact Us

Molecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
𝕏@Molecules_MDPI