Special Issue

Bioactive Phenolic and Polyphenolic Compounds

Message from the Guest Editor

Phenols and polyphenols are a class of plant secondary metabolites recently drawing a particular interest due to their broad spectrum of pharmacological effects. The identification of these bioactive molecules occurring in food and natural products is a difficult task because of the large number of components and complexity of their structures. From a chemical viewpoint, they can be classified in different groups, i.e., phenolic acids, flavan-3-ols, flavanones, flavones, flavonoids, lignans, and so on. The most common separation techniques used for their determination are capillary electrophoresis, gas chromatography, liquid chromatography, and, lately, supercritical fluid chromatography. Also, the hyphenation of any chromatography technique to mass spectrometry has come to play an influential role by allowing relatively fast tentative identification and accurate quantification of polyphenolic compounds at trace levels in vegetable media. This Special Issue aims to collect papers dealing with the determination of bioactive phenolic and polyphenolic compounds in food and natural products; in addition, a particular focus on new achievements in the field will be appreciated.

Guest Editor

Prof. Dr. Francesco Cacciola

Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, University of Messina, Viale F. Stagno d'Alcontres, 98166 Messina, Italy

Deadline for manuscript submissions

closed (31 October 2020)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/30366

Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

mdpi.com/journal/molecules

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/journal/molecules

MDPI

About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th 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.

Editor-in-Chief

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

Author Benefits

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)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).