



Characterization, Analysis and Application of Natural Antioxidants

Guest Editors:

Dr. Mustafa Bener

Department of Chemistry,
Faculty of Science, Istanbul
University, 34126 Istanbul, Turkey

Dr. Zhimin Xu

School of Nutrition and Food
Sciences, Louisiana State
University, Baton Rouge, LA
70803, USA

Deadline for manuscript
submissions:

closed (30 September 2022)

Message from the Guest Editors

Dear Colleagues,

The consumption of natural antioxidants is considered one of the important ways to combat serious health risks arising from “oxidative stress” conditions, and interest in these types of antioxidants has increased significantly in recent years. Research has focused on the study of the individual or collective extraction, isolation, characterization, and analysis of these natural antioxidants from natural sources such as fruits, vegetables, herbs, and spices. In addition, huge amounts of waste and by-products are produced throughout the agri-food supply chain, and many studies on the recovery of antioxidants from these by-products are at the forefront.

The scope of this Special Issue includes the isolation and characterization of antioxidants from all kinds of natural sources, antioxidant capacity/activity evaluations, the examination of other important quality parameters, and the development of new analytical methods for natural antioxidants. In addition, this Special Issue covers various applications of natural antioxidants and new approaches to the valorization of agricultural wastes.





an Open Access Journal by MDPI

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 experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all 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 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](https://twitter.com/Molecules_MDPI)