



Emerging Food Processing and Novel Approaches for Extraction and Application of Bioactive Compounds

Guest Editors:

Dr. Mohsen Gavahian

Department of Food Science,
National Pingtung University of
Science and Technology, 1,
Shuefu Road, Neipu, Pingtung
91201, Taiwan

Dr. Changwei Hsieh

Department of Food Science and
Biotechnology, National Chung
Hsing University, Taichung,
Taiwan

Deadline for manuscript
submissions:

closed (31 January 2023)

Message from the Guest Editors

Recent trends based on 21st Century consumer demands for healthy and functional foods boosted the application of naturally occurring bioactive compounds (e.g., polyphenols, phytosterols, fatty acids, flavonoids, caffeine, carotenoids, essential oils, etc.)

In this sense, extraction, stability during the process, and applications of these valuable molecules have attracted attention in the food, pharmaceutical, and cosmetic industries. Research showed that conventional extraction and processing technologies have several limitations such as low efficiency and degradation of bioactive compounds due to long processing time. Therefore, emerging food processing technologies and innovative approaches for the extraction and application of bioactive compounds, including phytochemicals, have been recently explored in various regions of the world.

These attractive technologies include extractions based on ohmic, microwave, radiofrequency, infrared, pulsed electric fields, moderate electric fields, ultrasound, high voltage electrical fields, high-pressure processing, combined technologies, and other innovative approaches.





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)