Special Issue

Challenges in Food Flavor and Volatile Compounds Analysis

Message from the Guest Editors

The analysis of food flavor and volatile compounds is a demanding task for analytical chemists. The diverse chemical nature of these compounds, and often, their instability and extremely low odor thresholds for important odorants, make their extraction from the food matrix, as well as separation and detection, challenging. Their isolation is mainly performed using extraction techniques based on sorbent technologies (SPME, TF-SPME, HCSE, SBSE and P&T). Two-dimensional gas chromatography, especially comprehensive two-dimensional gas chromatography (GC×GC), plays an increasingly important role in research on aroma/volatiles, and detection methods based on mass spectrometry are routinely used. The idea of this Special Issue is a follow-on of the symposium entitled "Challenges in Food Flavor and Volatile Compounds Analysis", which was organized on 22–23 September 2022 at the Poznan University of Life Sciences (https://www1.up.poznan.pl/zchziai/?p=1411). We welcome publications by speakers and participants of this symposium, as well as contributions from other authors whose research is focused on the analytical aspects of food aroma and flavor compounds.

Guest Editors

Prof. Dr. Henryk H. Jeleń

Dr. Małgorzata Majcher

Dr. Martyna Natalia Wieczorek

Deadline for manuscript submissions

closed (30 June 2024)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/152697

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).