Special Issue

Direct Injection Mass Spectrometry Analysis of Volatile Compounds in Food Applications

Message from the Guest Editors

The direct, rapid, and non-invasive analysis of volatile organic compounds in foods presents an efficient and highly informative tool to support the agroindustry and food science. This Special Issue aims to gather research papers, reviews and commentaries covering all facets of volatile compounds analysis food using direct injection mass spectrometry and other direct methods, including proton transfer reaction–mass spectrometry (PTR-MS), atmospheric pressure chemical ionization–mass spectrometry (APCI-MS), selected ion flow tube–mass spectrometry (SIFT-MS), direct analysis in real-time mass spectrometry (DART-MS), and secondary electrospray ionization–mass spectrometry (SESI-MS), amongst others. We invite contributions that span the entire spectrum of this field, from fundamental principles to practical applications, including integration with other analytical techniques. This Special Issue is associated with the 1st International Symposium on Direct Injection for Food Flavor Analytics (DIFFA23; 20-22 September 2023, Italy). Special considerations and submission benefits will be provided to conference attendees.

Guest Editors

Dr. Franco Biasioli

Dr. Jonathan Beauchamp

Dr. Patrick Silcock

Dr. Vittorio Capozzi

Deadline for manuscript submissions

closed (31 December 2024)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/185397

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

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).

MDPI