

## Special Issue

# Volatile Compounds in Food Chemistry

### Message from the Guest Editors

Aroma and flavor are considered to be decisive factors that affect consumers' acceptance and preference of food products. The sensation originates from the stimulation of human organs by volatile compounds. The compounds consist mainly of a class of small organic molecules (e.g., aldehydes, alcohols, ketones, esters, terpenes, acids) derived from an array of nutrients through plant metabolism, fermentation, and processing. Their compositions change with the geographical origin of food ingredients, food formulation, processing strategy, and storage conditions and serve as defining elements of distinct aroma/flavor of individual foods. This Special Issue aims to collect papers dealing with the characterization of volatile compounds in different types of foods and how they contribute to sensory/nutritional properties. Strategies centered on the improvement of food flavor/aroma and (or) their release patterns, such as advanced processing techniques, optimized processing conditions, encapsulation, and biomolecule interactions, will also be welcome. Changes to volatile compounds during fruit and vegetable development, growth, and post-harvest are also of interest.

### Guest Editors

Dr. Da Chen

Prof. Dr. Tao Feng

Dr. Jeffry Tang

### Deadline for manuscript submissions

closed (28 February 2023)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/si/96937](https://mdpi.com/si/96937)

*Molecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[molecules@mdpi.com](mailto:molecules@mdpi.com)

[mdpi.com/journal/  
molecules](https://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](https://mdpi.com/journal/molecules)



## About the Journal

### 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.

---

### 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).