

Special Issue

Flavor Compounds in Tea: Formation, Transformation and Health Beneficial Effects

Message from the Guest Editors

As a widely consumed beverage over the world, the growth of tea plants, the processing methods of teas, and their health benefits have been generating attention within both academia and industry. Tea contains various types of flavor matters, such as tea polyphenols, alkaloids, amino acids and volatiles, not only endowing teas with a unique taste and characteristic aroma but also contributing to their health benefits. Many flavor compounds in teas are thermolabile or susceptible, which are transformed during processing and storage resulted in the generation of new compounds not originating from tea leaves. In recent years, multi-omics technology and an advanced data analysis approach have been applied to deepen our understanding of tea growth, tea processing and tea health benefits. This Special Issue aims to collect research articles and review papers on the flavor compounds in teas, including their biosynthesis and regulation in tea plants, transformations during tea processing, as well as bioactivities and health benefits. Papers describing the formation, transformation or health benefits of specific flavor molecules are especially welcome.

Guest Editors

Dr. Jianhui Ye

Tea Research Institute, Zhejiang University, Hangzhou 310013, China

Dr. Liang-Yu Wu

College of Horticulture, Fujian Agriculture and Forestry University, Fuzhou 350002, China

Deadline for manuscript submissions

closed (31 December 2022)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/86045

Molecules

Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

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).