

## Special Issue

# Flavonoids and Xanthoness: Phytochemistry, Chemotaxonomy, and Biological Activities

### Message from the Guest Editor

Flavonoids are commonly reported from angiosperms, gymnosperms, ferns, and mosses as well as a few fungi and algae, and ca. 10,000 kinds are found as natural compounds. They are divided into an assortment of classes, including anthocyanins, flavones, flavonols, flavanones, dihydroflavonols, chalcones, aurones, flavans, and proanthocyanidins; they are found in most plant parts, e.g., flowers, leaves, roots, stems, buds, and seedlings and seeds, and act as antioxidants, UV shields, attractors of pollinators, flower colors, oviposition stimulants, allelopathic agents, and phytoalexins in many plants. On the other hand, ca. 200 xanthoness are reported from vascular plants, as well as fungi and lichens. However, flavonoids and xanthoness have not been surveyed in many plant species. In this Special Issue, we will accept papers on flavonoid identification, new sources, chemotaxonomy or chemosystematics, and biological activities.

### Guest Editor

Dr. Tsukasa Iwashina

Department of Botany, National Museum of Nature and Science,  
Amakubo 4-1-1, Tsukuba, Ibaraki 305-0005, Japan

### Deadline for manuscript submissions

closed (15 January 2023)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed

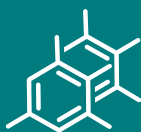


[mdpi.com/si/79371](https://mdpi.com/si/79371)

*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 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).