

## Special Issue

# Techniques for Extraction, Isolation and Characterization of Bioactive Compounds from Plant-Based Foods

### Message from the Guest Editors

Bioactive compounds from plants have been widely used due to their environmentally friendly and natural characteristics. The impacts of bioactive compounds on human health are of particular attention at the moment. However, current methods and techniques for extraction and isolation can cause severe environmental issues and there may still be many unknown components to be identified. Recently, new techniques have been developed for the extraction, isolation and characterization of various bioactive compounds in plant-based foods, including enzymes, peptides, polyphenols, polysaccharides, flavones and terpenes. This Special Issue comprises a collection of original research and review articles about novel advances in the extraction, isolation and characterization of plant-based foods. Topics include the following:

- Techniques for the extraction and isolation of bioactive compounds from plant-based foods;
- Techniques for the characterization of bioactive compounds from plant-based foods;
- New techniques for identifying compounds from plant-based foods;
- New techniques for characterizing new functions of known compounds from plant-based foods.

### Guest Editors

Prof. Dr. Chunsheng Hou

1. Institute of Bast Fiber Crops, Chinese Academy of Agricultural Sciences, Changsha 410205, China
2. Center of Southern Economic Crops, Chinese Academy of Agricultural Sciences, Changsha 410205, China

Prof. Dr. Sun Shuguo

National Engineering Laboratory for Deep Process of Rice and Byproducts, Hunan Key Laboratory of Grain-Oil Deep Process and Quality Control, Hunan Key Laboratory of Forestry Edible Resources Safety and Processing, College of Food Science and Engineering, Central South University of Forestry and Technology, Changsha 410004, China

### Deadline for manuscript submissions

closed (8 May 2025)



## Foods

an Open Access Journal  
by MDPI

Impact Factor 5.1  
CiteScore 8.7  
Indexed in PubMed



[mdpi.com/si/220777](https://mdpi.com/si/220777)

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

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





# Foods

---

an Open Access Journal  
by MDPI

---

Impact Factor 5.1  
CiteScore 8.7  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

*Foods* (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, *Foods* has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

---

### Editor-in-Chief

Prof. Dr. Arun K. Bhunia

1. Department of Food Science, Purdue University, West Lafayette, IN 47907, USA

2. Department of Comparative Pathobiology, Purdue University, West Lafayette, IN 47907, USA

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, FSTA, AGRIS, PubAg, and other databases.

#### Journal Rank:

JCR - Q1 (Food Science and Technology) / CiteScore - Q1 (Health Professions (miscellaneous))

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 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).