



*foods*



an Open Access Journal by MDPI

## Use of Emerging Technologies for Improving the Extraction of Valuable Compounds from Foods, Food Wastes, and Microalgal Biomass

Guest Editors:

**Dr. Gianpiero Pataro**

Department of Industrial Engineering (DIIIn), Università degli Studi di Salerno, Salerno, Italy

**Prof. Dr. Nabil Grimi**

TIMR, Université de Technologie de Compiègne, France

Deadline for manuscript submissions:

**closed (15 December 2022)**

### Message from the Guest Editors

In recent decades, emerging technologies, such as electrotechnologies (PEF, MEF, HVED), supercritical fluid extraction (SFE), microwave-assisted extraction (MAE), ultrasound-assisted extraction (UAE), and the use of high-pressure homogenization (HPH), among others, have been drawing attention in the field of improving the extraction efficiency of juices, solutes, and many valuable intracellular compounds (i.e., proteins, biopolymers, antioxidants, flavors, colorants, lipids, and fibers, among others) from a wide range of biomasses, including food-processing residual stream, and biosuspensions of microbial or algae cells.

Original research and review papers that help to elucidate the complex interaction between raw material properties, their changes after pretreatment, emerging technologies and downstream processes, as well as how emerging technologies can be used to improve the juice expression process and contribute to integrate sustainable biorefinery strategies in the development of valuable compounds from biomasses, including agro-food residues and suspensions of microbial and algae cells, are welcome in this Special Issue.



[mdpi.com/si/89557](https://mdpi.com/si/89557)

**Special** Issue



*foods*



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Arun K. Bhunia

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

2. Department of Comparative  
Pathobiology (Courtesy), Purdue  
University, West Lafayette, IN,  
USA

## 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.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**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))

## Contact Us

---

*Foods* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/foods](http://mdpi.com/journal/foods)  
[foods@mdpi.com](mailto:foods@mdpi.com)  
[X@Foods\\_MDPI](https://twitter.com/Foods_MDPI)