

## Special Issue

# Emerging Food Processing Technologies: Drying, Extrusion and Thermal Processing

### Message from the Guest Editors

Food processing technology faces several challenges crucial for meeting the growing global demand for processed food. Some of the key factors are food safety and quality assurance, clean labels and natural ingredients, improving processing efficiency, product innovation and development, ensuring a smooth and reliable supply chain, cost and waste management. Thus, the presented Special Issue is focused on emerging food processing technologies, particularly drying, extrusion and thermal processing. Emerging food processing technologies play a crucial role in enhancing food quality, safety and efficiency. These technologies, such as freeze, microwave, vacuum and even modern solar drying, as well as high-pressure and cold extrusion and 3D food printing, offer advantages such as improved energy efficiency, reduced processing times and better nutritional quality and flavor preservation in the final food products. As technology continues to advance, emerging food processing technologies are likely to play an increasingly important role in the food processing industry.

### Guest Editors

Prof. Dr. Jan Banout

Department of Sustainable Technologies, Faculty of Tropical AgriSciences, Czech University of Life Sciences Prague, Prague, Czech Republic

Dr. Klára Urbanová

Department of Sustainable Technologies, Faculty of Tropical AgriSciences, Czech University of Life Sciences Prague, Kamýcká 129, 165 00 Prague, Czech Republic

### Deadline for manuscript submissions

closed (10 February 2025)



## Foods

an Open Access Journal  
by MDPI

Impact Factor 5.1  
CiteScore 8.7  
Indexed in PubMed



[mdpi.com/si/191528](https://mdpi.com/si/191528)

*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).