



*foods*



an Open Access Journal by MDPI

## Enhancing Shelf Life of Food Products: Strategies, Challenges and Innovations

Guest Editors:

**Dr. Alessandro Bianchi**

Department of Agriculture, Food and Environment, University of Pisa, via del Borghetto 80, 56124 Pisa, Italy

**Dr. Francesca Venturi**

Department of Agriculture, Food and Environment, University of Pisa, Pisa, Italy

Deadline for manuscript submissions:

**closed (6 May 2025)**

### Message from the Guest Editors

The preservation of food products' quality during storage is a crucial step for reducing food waste and enhancing sustainability. This Special Issue explores current techniques, strategies, and innovations aimed at extending the shelf life of various food products. Factors influencing shelf life—including advanced packaging technologies, optimal storage conditions, minimal processing methods, and formulation adjustments—are examined for their effects on microbial growth, oxidation processes, and sensory quality preservation. Innovations such as active and intelligent packaging systems, natural antimicrobial agents, and novel processing techniques are highlighted for their potential to maintain nutritional quality and sensory acceptability while extending shelf life. Potential topics include but are not limited to the following:

- Strategies and innovations in food shelf life.
- Shelf life extension, evaluation, and modelling.
- Advanced storage conditions.
- Sustainability in packaging.
- Oxidative stability.
- Innovative processing technologies.
- Microbial growth inhibition.
- Formulation improvements.
- Sensory quality preservation.
- Minimal processing techniques



[mdpi.com/si/207545](https://mdpi.com/si/207545)

**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 47907, USA

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