



*foods*



an Open Access Journal by MDPI

## Irradiation Applications in Foods

Guest Editors:

**Prof. Dr. Masakazu Furuta**

Radiation Research Center,  
Graduate School of Engineering,  
Department of Quantum and  
Radiation Technology, Osaka  
Prefecture University, 1-2,  
Gakuen-cho, Naka-ku, Sakai,  
Osaka 599-8570 JAPAN

**Prof. Dr. Tamikazu Kume**

Dalat University, Vietnam

Deadline for manuscript  
submissions:

**closed (31 October 2019)**

### Message from the Guest Editors

This technology, “food irradiation”, has been applied to spices and cereal and to fresh, frozen, or cooked products as it is a physical, safe, environmentally-clean and efficient technology. Quarantine treatment of tropical fruits with irradiation has become popular as an alternative to chemical fumigation to disinfect insect pests and international trade of the irradiated fruits has started according to international rules. New irradiation sources, such as low energy electron beams and X rays, have recently emerged because of the compact size of irradiation systems and easy radiation safety management and combining irradiation processes with other decontamination techniques, such as heating or natural antimicrobial agents, are also interesting as a next-generation techniques. Understanding the decontamination mechanism, especially on bacterial spores, should be important to optimize advanced systems.



[mdpi.com/si/12987](https://mdpi.com/si/12987)

**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://www.instagram.com/Foods_MDPI)