

## Special Issue

# Microorganisms in Foods and Food Processing Environments

### Message from the Guest Editors

Microorganisms play a significant role in food production and processing. On the other hand, the presence of pathogenic microorganisms can pose a significant health risk to consumers. Spoilage bacteria and molds can also deteriorate food products, leading to decreased shelf life and product loss. Therefore, implementing appropriate preservation techniques is crucial for ensuring food safety and quality. Many currently used decontamination technologies have certain limitations and drawbacks. In addition, the need to meet consumers' expectations for safe and high-quality food products has resulted in the development of novel non-thermal technologies that can decontaminate foods, of which cold atmospheric pressure plasma technology is gaining attention. This Special Issue will focus on the latest findings on the antimicrobial effect of cold atmospheric pressure plasma. In addition, the influence of cold plasma on the nutritional aspects and physiochemical characteristics of foods should be considered. The action of other non-thermal processing techniques, including low-energy electron beam or pulsed light etc., will also be discussed.

---

### Guest Editors

Dr. Silvia Mošovská

Dr. Anna Mikulajová

Dr. Anna Zahoranová

---

### Deadline for manuscript submissions

closed (20 March 2024)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/si/167825](https://mdpi.com/si/167825)

*Applied Sciences*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
appls@mdpi.com

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





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



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



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### 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), Inspec, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)