

Special Issue

Advanced Methods and Techniques: Ensuring and Improving Food Safety and Quality

Message from the Guest Editors

Ensuring food safety and quality remains a global priority as supply chains become more complex and consumer expectations rise. This Special Issue highlights recent advances in analytical methods, monitoring technologies, and data-driven approaches designed to detect, prevent, and manage risks across the food supply chain. Contributions are expected to explore cutting-edge techniques such as high-resolution mass spectrometry, next-generation sequencing, biosensors, and artificial intelligence, which are reshaping how we assess contaminants, pathogens, and overall product integrity. Emphasis will also be placed on emerging strategies for traceability, real-time monitoring, and the integration of foodomics to support evidence-based decision-making. By showcasing innovative tools and interdisciplinary solutions, this issue aims to support researchers, policymakers, and industry stakeholders in strengthening food safety systems and enhancing product quality from farm to fork.

Guest Editors

Dr. Patrizio Lorusso

Dr. Valentina Terio

Dr. Pandiscia Annamaria

Deadline for manuscript submissions

31 January 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/245685

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

mdpi.com/journal/

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





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)