

Special Issue

Innovative Additives for Food Preservation

Message from the Guest Editors

The continuous growth of the global population poses a major challenge for food production and, consequently, for the food industry. Increasing numbers of consumers demand for nutrient-rich, minimally processed foods that offer health benefits, and maintain extended shelf life. Natural bioactive substances such as phenolics, tocopherols, carotenoids, and terpenoids have emerged as promising and innovative alternatives for food preservation applications; furthermore, these compounds are widely recognized for their nutraceutical properties. These innovations target key challenges in food preservation—including microbial contamination, lipid oxidation, and nutrient degradation—while aligning with growing consumer demand for clean-label products.

This Special Issue seeks to compile the latest advancements in sourcing, evaluating, and applying natural additives in food systems with the purpose of extending their shelf life. We invite you to contribute with review articles and research papers to this Special Issue.

Guest Editors

Dr. Henry I. Castro-Vargas

1. Faculty of Sciences, Universidad Santiago de Cali, Calle 5 # 62-00, Cali 760043, Valle del Cauca, Colombia
2. Food Engineering School, Universidad del Valle, Calle 13 # 100-00, Cali 760043, Valle del Cauca, Colombia

Dr. Menglei Xu

Jilin Provincial Key Laboratory of Nutrition and Functional Food and College of Food Science and Engineering, Jilin University, Changchun 130062, China

Deadline for manuscript submissions

28 February 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/247281

Applied Sciences
Editorial Office
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 5.5



[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)