# Special Issue

# Advances in Dairy Products: Composition, Properties, Detection, Application, and Development

**Message from the Guest Editor**

This Special Issue focuses on the latest advancements in dairy products. Research on dairy products is extensive, aiming to enhance their quality, safety, and functionality. **Topics covered in this Special Issue include the following:**

- Chemical composition of dairy products: Analysis of nutritional components, bioactive compounds, and potential allergens;
- Physical and rheological properties: Studies on texture, viscosity, syneresis, and other properties affecting the sensory quality of products;
- Novel production and processing methods: Development of innovative production technologies such as fermentation, microfiltration, ultrafiltration, and nanotechnology;
- Application of new ingredients and additives: Impact on the quality, shelf life, and functionality of dairy products;
- Development of new products: Creation of dairy products with special properties, such as probiotic, functional, and products designed for specific consumer groups;
- Analytical methods: Modern analytical techniques for determining the composition and quality of dairy products;
- Food safety: Issues related to microbiology, toxicology, and the safety of dairy products.

**Guest Editor**

Prof. Dr. Małgorzata Ziarno

Department of Food Technology and Assessment, Institute of Food Science, Warsaw University of Life Sciences-SGGW (WULS-SGGW), Nowoursynowska 159c St., 02-776 Warsaw, Poland

**Deadline for manuscript submissions**

20 December 2025

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/217967

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

mdpi.com/journal/applsci

MDPI

# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

# 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 )