

## Special Issue

# Advances in Food Processing Technology: Enhancing Quality, Safety, and Sustainability

### Message from the Guest Editors

Advances in food processing technologies are paving the way for the development of more sustainable, safe, and high-quality food products. As these technologies continue to evolve, they hold great promise for shaping the future of food production and consumption, guaranteeing food safety and having a lower impact on the sensory properties of food. This will allow for the development of foods with maximal retention of intact nutrients, a long shelf life, environmentally friendly properties and low costs. Key advancements in this field include High-Pressure Processing (HPP), Microbial Inactivation Technologies (including methods like ultraviolet (UV) light, pulsed electric fields (PEFs), and ozone treatment), Cold Plasma Technology, 3D Food Printing, Fermentation and Biotechnological Processes, Sustainable Packaging Technologies, Smart Food Monitoring and Traceability (including the use of IoT ("Internet of Things"), sensors and RFID tags), Plant-Based and Cultured Meat Technologies, Nanotechnology in Food Processing and, finally, Artificial and Machine Learning in Food Processing.

### Guest Editors

Prof. Dr. Ayerim Hernández-Almanza

Prof. Dr. Cristóbal Noé Aguilar González

Prof. Dr. Lorenzo M. Pastrana

### Deadline for manuscript submissions

20 February 2026



## Applied Sciences

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### 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.

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### Editor-in-Chief

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