

Special Issue

Advanced Technologies for Food Packaging and Preservation

Message from the Guest Editors

The existing technology for food packaging and preservation has constantly evolved to meet the growing and changing demands of society. Changes in population lifestyle have increased the demand for fresh or minimally processed products and functional, high quality and ready-to-consume foods without traditional preservatives but with a prolonged shelf-life, while also meeting strict food safety regulations. On top of this, there is significant food waste along the supply chain where packaging and conservation technologies are key to significantly reduce these losses. The scientific community is making great efforts to make sustainable, commercially available solutions based on advanced technologies such as active and biodegradable packaging, nanotechnology, irradiation, photocatalysis, 3D printing, high hydrostatic pressures, electric fields or biopreservatives to directly improve food shelf life, while other technologies such as ultrasounds, image analysis, machine learning or other AI applications can be used to monitor food processing and hence improve the overall food quality and safety.

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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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