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Enhancing Shelf Life of Food Products: Strategies, Challenges and Innovations

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Message from the Guest Editors

The preservation of food products' quality during storage is a crucial step for reducing food waste and enhancing sustainability. This Special Issue explores current techniques, strategies, and innovations aimed at extending the shelf life of various food products. Factors influencing shelf life—including advanced packaging technologies, optimal storage conditions, minimal processing methods, and formulation adjustments—are examined for their effects on microbial growth, oxidation processes, and sensory quality preservation. Innovations such as active and intelligent packaging systems, natural antimicrobial agents, and novel processing techniques are highlighted for their potential to maintain nutritional quality and sensory acceptability while extending shelf life. Potential topics include but are not limited to the following:

- Strategies and innovations in food shelf life.
- Shelf life extension, evaluation, and modelling.
- Advanced storage conditions.
- Sustainability in packaging.
- Oxidative stability.
- Innovative processing technologies.
- Microbial growth inhibition.
- Formulation improvements.
- Sensory quality preservation.
- Minimal processing techniques



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Special Issue



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Message from the Editor-in-Chief

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