



Recent Advances in the Use of Edible Thin Films/Coatings in Food Industries

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Message from the Guest Editors

Dear Colleagues,

Edible films and coatings are thin layers of materials applied on a wide range of fresh and processed food products to improve their quality and safety during transportation and storage through the prevention of mechanical damage and damage resulting from physical, chemical and microbiological activities. The edible film and coating industry is now emerging as a multimillion dollar industry owing to the increasing consumer demand to preserve food in a natural way, providing alternatives for plastic packaging of food materials and their associated environmental pollution.

Topics of interest include, but are not limited to:

- New renewable sources (polysaccharides, proteins, lipids and nanocomposites) with properties to use as films
- Structural characteristics and effect of edible films/coatings on foods
- Approaches in making edible films/coating food surfaces
- Incorporation of active ingredients or bioactive substances with edible films/coatings
- Antimicrobial and antioxidant properties
- Application in food preservation, packaging, and quality.





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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