



Trends in Sustainable Food Packaging and Coatings

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Message from the Guest Editors

Packaging contributes to the preservation of food quality during transportation and storage while simultaneously eliminating the possible risks of the chemical contamination of food products and food-borne illnesses associated with the safety of food. Food coatings limit the contact of food with the environment, alter the functional properties of foods, and promote the control of food's surface moisture. Currently, the food industry mainly relies upon non-biodegradable and fossil-derived synthetic plastic materials for food packaging. A significant amount of research has been conducted and is in progress to reduce these environmental impacts, such as the development of innovative, sustainable materials and technologies for improved food packaging and coatings.

Recent progress in novel packaging, including active, intelligent, biodegradable, recyclable, or reusable packaging research;

Advances in edible coatings for fresh produce;

Novel technologies for the surface modification of biodegradable polymers applied to food packaging;

Miscellaneous relevant to sustainable packaging and coatings.





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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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