

Special Issue

Advancements in Films and Coatings for Food Packaging and Storage

Message from the Guest Editors

Food packaging plays a critical role in the food production chain, safeguarding products from physical, chemical, and biological contamination. Without proper packaging, the risk of food loss and associated socio-economic and environmental impacts significantly rises. In recent years, there has been a growing emphasis on the development of sustainable packaging materials and their impact on food shelf life. The detrimental effects of non-sustainable, non-degradable packaging materials on municipal solid waste, land, and water pollution have prompted a shift towards bio-based films, particularly those derived from biopolymers, which offer biodegradability and a reduced environmental footprint.

- Food packaging material development;
- Physical and chemical properties of food packaging materials;
- Packaging systems;
- Nano packaging;
- Modified atmosphere, active and intelligent packaging systems;
- Edible film;
- Sensory properties of packaged foods;
- Migration from packaging materials;
- Food package interactions;
- Shelf life of packaged food products;
- Recycling of food packaging materials;
- Packaging sustainability.

Guest Editors

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About the Journal

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.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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