

Special Issue

Advances in Biodegradable Packaging, Bioedible Films, and Coatings for Food

Message from the Guest Editors

At present, biodegradable materials are attracting much attention for food packaging applications due to the fact that we are running out of petroleum resources and, more importantly, due to the serious environmental problems caused by the blooming use of synthetic plastic packaging materials. High-performance biodegradable packaging materials based on biopolymers are considered a suitable method to develop edible packaging materials. Biodegr(edible) packaging can be used wherever the application of petroleum-based materials is limited, e.g., edible coatings, casing, wraps, layers separating various components in complex food products, dosage forms for packaging pre-weighed quantities of food, nano- and microcapsules, vehicles for food additives, drugs release systems, etc. Novel biodegr(edible) packaging may act at different functional levels, i.e., by prolonging the shelf life, enhancing or maintaining the quality, providing indications, and regulating the freshness of a food product. We invite you to submit research articles or reviews on the latest research in this sector that emphasize and highlight applications in the food packaging sector.

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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