

Special Issue

Advanced Coatings and Films for Food Packing and Storage

Message from the Guest Editors

With the increasing demand for food quality and safety, it is urgent to develop efficient packaging strategies for prolonging the shelf life of food. An edible coating is a fine layer made up of an edible material that protects the food underneath from physicochemical and microbiological decomposition, and has various advantages such as edibility, biocompatibility, non-toxicity, non-polluting etc. Additionally, these coatings combine active ingredients such as deoxidizers, antioxidants and antimicrobials in the coating materials, and can release or absorb the active ingredients into the packaged foods or their surrounding environment. We invite researchers to contribute their original research results and review articles on the following topics: - Discovery of new natural biopolymers as the base materials for advanced coatings; - Natural biopolymer-based films with improved functionalities; - Discovery of new manufacturing methods for improving the functional properties of natural biopolymer-based films. - Advanced coatings for extending shelf life and maintaining food quality during storage. We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (31 March 2024)



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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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