

Special Issue

Advanced Edible Films and Coatings for Food Packaging

Message from the Guest Editors

There is a huge global demand for renewable and biodegradable food packaging for sustainability. Functionalized nanocomposites have been investigated for their biosensing features and real-time monitoring of food spoilage by microbes and other factors. Natural antimicrobial agents have been commonly preferred in active packaging owing to their abundance, biocompatibility, and biodegradability. The main aim of this Special Issue is to disclose the significance of the latest development in sustainable food packaging. We are pleased to invite submissions in the form of original research articles, short communications, letters, prospects, and mini reviews. This Special Issue is not limited to active and intelligent packaging but also welcomes manuscripts on electrospun nanofibers, kinetics on the release of active components, edible films/coatings processing, encapsulation techniques, life cycle analysis, novel techniques of biopolymer extraction, waste valorization, quorum sensing, bionanocomposites, naturally derived polysaccharides/proteins, structural modification of biopolymers, circular bioeconomy, modeling, etc.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2023)



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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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