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Biodegradable Films and Composite Coatings: Current and Future Trends

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Message from the Guest Editor

Dear Colleagues,

The relevance of developing environmentally friendly and biodegradable materials for the preparation of films and coatings is attracting much attention. This ambitious challenge is crucial for a more sustainable approach in the production of packaging for food products.

Films and coatings with antimicrobial and antioxidant properties are needed in food applications, for increasing shelflife and enhancing the microbial safety of food products.

Nanocomposites, which include nanoparticles and nanolaminates to create multilayered systems, are being developed in order to improve mechanical and barrier properties. However, despite the advantages of this innovative technology, the possible toxicity effects due to nanoparticles migration to the packaged food need to be addressed.

This Special Issue aims to collect key contributions to the field, and to give an overview about the use of biodegradable films and coatings in food packaging applications.







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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. Coatings is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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