

Sustainable Films and Coatings for Food Packaging

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Deadline for manuscript
submissions:

closed (31 May 2022)

Message from the Guest Editor

Dear Colleagues,

Research on biodegradable polymers through the valorization of agro-industrial wastes and biomasses or by taking advantage of renewable resources often represents a challenge, since the new materials need to possess performances comparable to the currently employed plastics, guaranteeing, for instance, gas and water barrier properties, transparency, and sealing.

For this reason, the development of novel sustainable coatings and films requires an interdisciplinary approach that combines the competences of experts in the fields of food and material sciences, chemistry, and engineering.

In particular, topics of interest include but are not limited to:

- Characterization of new sustainable materials for film and coatings;
- Valorization of agro-industrial wastes/by-products;
- Bio-based materials;
- Renewable sources of biodegradable materials;
- Surface functionalization;
- Edible films and coatings;
- Bioactive molecules for active and intelligent packaging;
- Evaluation of physiochemical and functional properties of coatings and films;
- Shelf-life studies for the evaluation packaging performance



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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.

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