

Special Issue

Novel Trends and Emerging Technologies in Green Coatings and Packaging Materials

Message from the Guest Editors

Novel and emerging technologies in food packaging are a trending area of research to boost food quality and safety in recent years. Packaging that is both environmentally friendly and edible is becoming more popular. To reduce waste and keep food fresh, edible packaging uses biodegradable materials that are applied as a consumable coating or wrapping around the food. Various recent studies have examined the value of edible components as an additional benefit to packaged foods. Nanotechnology is increasingly looking like a potential area to use bioactives, antimicrobials, vitamins, and antioxidants to produce edible packaging more useful, so it can be promoted as a component of edible and green coatings and films such as nanofibers, nanocapsules, nanoparticles, and nanoemulsions. Original articles or reviews including, but not limited to, the following topics are welcome:

- Active and smart/intelligent packaging;
- Biodegradable coatings and materials;
- Edible films;
- Antimicrobial coatings and films;
- Different coating technologies and materials;
- Novel and emerging technologies for food preservations;
- Nanotechnology research for packaging materials.

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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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