

# Special Issue

## Edible Films and Coatings Based on Biopolymers

### Message from the Guest Editors

We welcome contributions that address both fundamental and applied research aspects.

- Novel Biopolymer Sources: Exploration of new or underutilized polysaccharides, proteins, and lipids for film formation.
- Functional Properties: Enhancement of mechanical strength, barrier properties, and thermal stability.
- Active and Smart Packaging: Incorporation of bioactive compounds such as antioxidants, antimicrobials, vitamins, and natural pigments to create active systems. Development of pH-sensitive or freshness-indicating intelligent coatings.
- Nanotechnology Integration: Use of nanofillers and nanostructures to improve matrix properties and functionality.
- Characterization Techniques: Advanced physical, chemical, mechanical, and microbiological characterization of films and coatings.
- Application Studies: In vitro and in vivo studies demonstrating efficacy in food models, pharmaceutical coatings, or other relevant areas.
- Sustainability and Life Cycle Assessment: Evaluation of the environmental impact, biodegradability, and compostability of these materials.

We look forward to receiving your submission.

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### Guest Editors

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### Deadline for manuscript submissions

31 July 2026



## Coatings

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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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### Editors-in-Chief

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