

## Special Issue

# Edible Films and Coatings in the Age of Artificial Intelligence: From Materials to Applications

### Message from the Guest Editors

The growing global demand for safer, healthier, and more sustainable food has sparked a remarkable transformation in food preservation technologies. This Special Issue, titled “Edible Films and Coatings in the Age of Artificial Intelligence: From Materials to Applications”, seeks to reflect the breadth of advances in this dynamic and rapidly evolving field. Our goal is to connect fundamental materials research with practical, real-world applications. We welcome contributions on new biopolymers, characterization methods, and encapsulation techniques, but we are especially interested in studies that integrate emerging technologies. In particular, we encourage submissions exploring the use of microfluidics for developing precision-engineered emulsions and delivery systems, computer vision for non-destructive quality assessment, and artificial intelligence (AI) or machine learning for optimizing formulations, predicting shelf life, and analyzing complex sensory data.

### Guest Editors

Dr. Giovanna Rossi-Marquez  
Dr. Cristian Davalos-Saucedo  
Dr. Sergio Rodríguez-Miranda  
Dr. Edgardo Martinez-Orozco

### Deadline for manuscript submissions

15 August 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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