

## Recent Advances in Functional Biopolymers for Food Packaging and Biomedical Applications

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Deadline for manuscript  
submissions:

**closed (29 February 2024)**

### Message from the Guest Editors

This special issue is focused at a congregation of crucial developments in the biopolymer and biomaterials research leading to their improved physicochemical and functional properties for multifaceted applications. We intend to reach the readers not only from the academia, but also from the industries, and provide them with the frontier advances in this research area which could facilitate the commercialization. The purpose of this research topic is to promote the development of applications involving biodegradable, renewable polymers and biomaterials to various aspects touching human life directly or indirectly.

In particular, the topic of interest includes but is not limited to

- Synthesis and characterization of biopolymers and biomaterials.
- Extraction, utilization, and value-addition of biomaterials from waste resources.
- Engineering biopolymers and biomaterials aimed at amelioration of their physicochemical and functional properties.
- Applications of biomaterials in sustainable food packaging, edible packaging, and biomedical engineering.
- Degradation of biomaterials and biopolymers in natural or nature-mimicking environment.



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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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