Special Issue

Biopolymeric Hydrolysates and Functional Polymers: Innovations in Food Applications and Shelf-Life Enhancement

Message from the Guest Editor

Biopolymeric hydrolysates and functional polymers are emerging as key solutions in the food industry due to their ability to improve the nutritional profile, functionality, and shelf-life of food products. This Special Issue seeks to highlight innovative research on the extraction, characterization and application of these biopolymers from various natural sources, with a focus on their potential to enhance food quality and sustainability. Topics of interest include, but are not limited to, the following: Development and functional applications of biopolymeric hydrolysates in food systems. Novel strategies for extending shelf-life and improving food preservation. Exploration of antioxidant, antimicrobial, and bioactive properties of biopolymeric materials. Advances in sustainable production methods for biopolymers from renewable natural resources. Cutting-edge processing technologies, such as enzymatic hydrolysis, encapsulation, and nanotechnology, for functional polymer innovation.

Guest Editor

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker
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