

Special Issue

Sustainable and Functional Biopolymers for Food Packaging Applications

Message from the Guest Editors

The rising need for eco-friendly packaging solutions has driven research into biopolymers as substitutes for traditional plastics. This Special Issue seeks to explore the latest innovations in biopolymer-based materials for food packaging, encompassing natural polymers such as polysaccharides (cellulose, chitosan, starch, alginate, pectin, etc.), proteins, and lipids, along with hybrid systems and bio-nanocomposites. Areas of interest include innovative fabrication methods, active and intelligent packaging, enhancements in functionality (such as barrier, mechanical, antimicrobial, and antioxidant properties), and the potential for industrial scalability. Emphasis will be placed on evaluating the performance, biodegradability, safety, and potential for a circular economy of these materials. Contributions that bridge the gap between laboratory research and commercial applications are especially encouraged.

Guest Editors

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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 4.9.

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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