Special Issue

Sustainable Polymeric Composites from Polysaccharides

Message from the Guest Editors

Polysaccharides, as abundant and renewable biomaterials, offer immense potential for developing sustainable polymeric composites with applications in packaging, biomedicine, agriculture, etc. This Special Issue will highlight recent advances in the design, processing, characterization, and application of polysaccharide-based composites, emphasizing sustainability throughout their lifecycles. Topics of interest include but are not limited to the following: (1) novel extraction and modification techniques for polysaccharides (e.g., cellulose, chitosan, starch); (2) green fabrication methods (e.g., solvent-free processing, 3D printing); (3) performance optimization (mechanical, barrier, or bioactive properties); (4) biodegradability and environmental impact assessment; (5) scalable production and industrial applications. Contributions may cover fundamental research, technological innovations, or case studies that align with circular economy principles. By bridging gaps between material science, chemistry, and engineering, this Special Issue will provide a platform for sharing cutting-edge solutions to global sustainability challenges.

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 4.7.

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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