

Special Issue

Development and Application of Bio-Based Polymers

Message from the Guest Editors

As the world grapples with environmental challenges, bio-based polymers, derived from renewable sources, have emerged as a promising solution. This Special Issue will serve as a dynamic platform to disseminate cutting-edge research, innovative methodologies, and real-world case studies that delve into the synthesis, processing, recycling, characterization, and application of bio-based polymers. By presenting a comprehensive view of their potential, we hope to foster a deeper understanding of the opportunities and challenges surrounding these sustainable materials. The scope of this Special Issue encompasses an array of fascinating topics, including, but not limited to, biodegradable polymers that break down harmlessly in the environment, biocomposites that combine biopolymers with natural fibers or fillers for enhanced properties, bioplastics with diverse applications in various industries, bio-based nanomaterials with exceptional properties, and their use in packaging, biomedical devices, agriculture, textiles, and many other sectors.

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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