

Special Issue

Synthesis, Production and Applications of Cellulose

Message from the Guest Editor

This Special Issue focuses on recent progress in the synthesis, production, modification, and application of cellulose and cellulose-based materials. As the most abundant renewable biopolymer, cellulose offers remarkable versatility for a wide range of industrial and technological uses. This issue welcomes studies addressing chemical and physical modification routes, novel processing strategies, and advanced characterization techniques. Contributions may cover topics such as cellulose extraction and purification, functionalization for improved performance, incorporation into composites, and the development of cellulose-based membranes, films, or packaging materials. Submissions dealing with cellulose valorization from agricultural residues or industrial by-products are encouraged, as are those exploring emerging applications in fields including energy conversion, environmental remediation, biomedicine, and sustainable materials. Both fundamental research and application-oriented studies are welcome, with a particular interest in approaches that advance the understanding of structure–property relationships and enable scalable solutions for industry.

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 4.9.

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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