

## Special Issue

# Advances in Lignin-Based Composites and Polymers

### Message from the Guest Editor

Lignin is the second most abundant natural polymer on Earth, with an annual output of about 150 billion tons, and is considered an inexhaustible source owing to its renewable origin. Additionally, more than 70 million tons of lignin-related wastes are produced every year as a major byproduct of pulp and paper industry. Technology for the utilization of lignin in the preparation of value-added products such as composites and polymers has become an important technological frontier undergoing active development. However, high oxygen content (20%–35%) and complex linkages ( $\beta$ -O-4,  $\beta$ -5,  $\beta$ -1, 5-5, 4-O-5,  $\beta$ - $\beta$ ) make the utilization of lignin difficult. Many new methods and new strategies for the utilization of lignin in reasonable, highly efficient and environment-friendly ways are hence being proposed and developed. Accordingly, this Special Issue focuses on the advances in the new methods and strategies for the conversion and utilization of lignin in composites and polymers. Other relevant studies are highly welcome as well.

### Guest Editor

Dr. Zhanghong Wang

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### Deadline for manuscript submissions

closed (25 September 2023)



## Polymers

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Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



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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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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