

## Special Issue

# Applications of Lignin-Based Polymer

### Message from the Guest Editor

Lignin, the reserve second only to cellulose, is an abundant low-value, high molecular polymer with a polyphenol structure. The applications of lignin-based polymers have now received widespread attention. However, limited by the current levels of technology, less than 5% of lignin-based polymers have been resourcefully utilized. Most are discharged or burned directly, which is not a waste of bioresources, but also causes great damage to the environment. The characteristics of lignin-based polymers, such as environmental friendliness, sustainability and recyclability, indicate its great potential and broad prospects in energy conversion, fine chemicals, high value-added chemical synthesis and environmental applications, etc. We aim to gather high-quality research articles on the applications of lignin-based polymers. Specifically, the Issue will cover the following topics:

- Lignin-based polymer valorization into high-value chemicals and biofuel;
- Production design and process modelling for lignin-derived functional materials;
- Lignin-derived functional materials used for energy storage;
- Lignin-derived functional materials for environmental applications

### Guest Editor

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### Deadline for manuscript submissions

closed (20 August 2023)



## Polymers

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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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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