



Applications of Lignin-Based Polymer

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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





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Message from the Editor-in-Chief

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