



Advances in Lignin-Based Composites and Polymers

Guest Editor:

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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 (β -O-4, β -5, β -1, 5-5, 4-O-5, β - β) 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.





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