



New Insights into Lignocellulosic-Based Materials and Their Multifunctional Applications

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Message from the Guest Editors

Lignocellulosic refers to materials that are composed of lignin, cellulose, and hemicellulose. These materials are typically derived from plant biomass such as wood, agricultural residues, or energy crops. Lignocellulosic materials are abundant and renewable, exhibiting a high-reactivity surface and functionality along with a relatively low density and cost, and are of great interest to various industries, including bioenergy, biorefinery, and paper and pulp production. Research is ongoing to develop more efficient and cost-effective processes for the conversion of lignocellulosic materials into useful products such as cellulose fibres, micro- and nano-cellulose, epoxides, phenolic resins, and bioplastics for a wide range of applications such as biorefining for biofuel and biochemical production, biomedical, cosme- and pharmaceuticals, multifunctional carbon materials, and other eco-friendly specialty products. Therefore, the use of these materials can help to reduce reliance on fossil fuels and contribute to a more sustainable future.





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Message from the Editor-in-Chief

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