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Special Issue Reprint

Advances in Polymer Materials Based on Lignocellulosic Biomass

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The Reprint, “Advances in Polymer Materials Based on Lignocellulosic Biomass”, highlights recent advances in sustainable polymer materials derived from renewable lignocellulosic resources. It covers the development of bio-based polymers, natural fiber composites, surface modification techniques, flame-retardant and hydrophobic materials, and functional systems for environmental and industrial applications. The contributions emphasize innovative approaches for biomass valorization, improved material performance, and reduced environmental impact. By integrating chemistry, materials science, and engineering, this Reprint supports the transition toward sustainable and circular polymer technologies and provides a valuable reference for researchers in green materials and biomass-based polymer engineering.

