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Recent advances in hydrotropic solvent systems for lignocellulosic biomass utilization

Effective fractionation of biomass into compositional polymers or monomers prior to conversion processes is beneficial for achieving maximum utilization. Owing to their amphiphilic structure and acid functional group, hydrotropic solvents can function as a catalyst in biomass fractionation, as a solvent in solubilizing lignin at mesoscale, and as an agent to functionalize lignin. These hydrotropic solvents clearly play vital roles in biomass fractionation as well as the separation, recovery, and functionalization of lignin.

**As featured in:**



See Qiang Yang, J. Y. Zhu, Chang Geun Yoo *et al.*, *Green Chem.*, 2024, 26, 1806.