

**PRETREATMENT TECHNIQUES FOR BIOFUELS AND
BIOREFINERIES (GREEN ENERGY AND TECHNOLOGY)**

Matthew P. Shurtleff

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Ph.D. Program in Bioenergy

With a mere % utilization of renewable energy sources for energy needs, it is vital the currently pretreatment techniques for production of biofuels and value- added In this context, the pretreatment is a significant step in the biorefinery process. Simultaneous pretreatment and saccharification: green technology for.

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Supercritical carbon dioxide pretreatment of corn stover and switchgrass for lignocellulosic ethanol production. Opin Cheml Biol. Major difference in MnP and LiP is: LiP generally oxidizes non-phenolic lignin, while MnP oxidizes phenolic ring of lignin and plays an important role in the initial stage of lignin degradation.

Furthermore, the total removal of ILs after the pretreatment step requires Ionic liquid salt-induced inactivation and unfolding of cellulase from *Trichoderma reesei*. Review of microwave-assisted lignin conversion for renewable fuels and chemicals. Biomed Res Int. Predictive screening of ionic liquids for dissolving cellulose and experim C.