Hydrothermal Process for Increasing Acetic Acid Yield from Lignocellulosic Wastes

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Usual wet oxidation (WO)

Lignocellulosic wastes $\rightarrow$ Monosaccharides $\xleftarrow{\text{H}_2\text{O}}$ Acetic acid

Maximum yield is about 12%.

Furfural $\rightarrow$ Acetic acid

Yield twice.

Two step reaction process