



Cost-Effective Approach for Oxidative Catalytic Pretreatment of Plant Biomass via Homogenous Catalysis and Co-oxidants

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The Wisconsin Alumni Research Foundation is seeking commercial partners interested in an improved method for deconstructing biomass for use in plant-derived products, including aromatics and non-petroleum-based fuels.

The Invention

Researchers from UW-Madison and other institutions have developed an improved alkaline pretreatment method for plant biomass that makes the production of lignocellulose-derived sugars for bio-based fuels and chemicals more economically feasible. The process uses a homogenous catalyst with one or more metals and metal coordinating ligands, along with at least two oxidants such as hydrogen peroxide and oxygen. The enhanced method increases enzymatic digestibility and reduces processing costs.

Additional Information

For More Information About the Inventors

- [Shannon Stahl](#)

Tech Fields

- [Clean Technology: Biobased & renewable chemicals & fuels](#)

For current licensing status, please contact Jennifer Gottwald at jennifer@warf.org or 608-960-9854