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Aqueous Pretreatment of Plant Biomass for Biological and Chemical Conversion to Fuels and Chemicals presents a comprehensive overview of the currently available aqueous pretreatment technologies for cellulosic biomass, highlighting the fundamental chemistry and biology of each method, key attributes and limitations, and opportunities for future advances.

Aqueous Pretreatment of Plant Biomass for Biological and ...

biomass and provides pretreatment at ambient temperatures. Ammonia ensiling is followed by ammonia-ethanol soaking/steeping at < 60 °C for 10-24 hrs prior to fractionation into major

Ammonia Biomass Pretreatment Fractionation Process

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Summary The analysis of biomass feedstocks for conversion into fuels and chemicals is a ... Mittal, Robert W. Sykes, Recalcitrance Assessment of the Agro-industrial Residues from Five Agave Species: Ionic Liquid Pretreatment, Saccharification and Structural ... Aqueous Pretreatment of Plant Biomass for Biological and Chemical Conversion to ...

Progress in the Summative Analysis of Biomass Feedstocks ...

Turning Plant Matter into Fuel. Book by UC Riverside professor focuses on aqueous processing of cellulosic biomass, which includes wood, grasses, and agricultural and forestry residues,

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for conversion into fuel. By Sean Nealon on June 12, 2013. RIVERSIDE, Calif. (www.ucr.edu) — A University of California, Riverside professor in the Chemical and Environmental Engineering Department edited a recently published book that provides in-depth information on aqueous processing of cellulosic ...

UCR Today: Turning Plant Matter into Fuel

Hydrothermal (aqueous) pretreatment. Pretreatment at neutral pH is an acid catalyzed process. At high temperature and pressure, saturated liquid water increases the concentration of protons in solution, becoming weakly acidic. H^+ and OH^- concentrations in water at 250 °C are 23.3 times higher than those at 25 °C. In addition, hemicellulose is hydrolyzed in acidic conditions and releases acetyl and uronic groups.

Promise of combined hydrothermal/chemical and

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mechanical ...

Assessment of biomass pretreatment processes depends on a parameter called the “severity factor”, which is defined as the combined effect of temperature, acidity, and duration of pretreatment. Studies on biomass pretreatment have used the severity factor for comparing pretreatment results even though it does not provide an accurate measure of the severity.

Biomass pretreatment: Fundamentals toward application ...

Pretreatment methods of biomass include typically dilute-acid , , ammonia fiber explosion (AFEX) , soaking in aqueous ammonia (SAA) , ammonia recycle percolation (ARP) and alkaline pretreatments . Alkaline reagents such as ammonium hydroxide, sodium hydroxide and calcium hydroxide have been used as pretreatment reagents for bioconversion of lignocellulosic biomass.

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Comparison of various alkaline pretreatment methods of

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In this process, an aqueous organic solvent mixture is used as the pretreatment medium, and biomass is fractionated into its main components (49). Usually, ethanol is used as the solvent and ...

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“Adding Tetrahydrofuran to Dilute Acid Pretreatment Provides New Insights into Substrate Changes that Greatly Enhance Biomass Deconstruction by *Clostridium thermocellum* and Fungal Enzymes,” *Biotechnology for Biofuels*, 10, 252.

Publications | Aqueous Biomass Processing (ABP) Group

Biomass pretreatment. A 10 % (w/w) biomass solution was

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prepared by combining 1 g of switchgrass with 9 g of IL in a 25 mL tube reactor. The reactor was heated in an oil bath to the desired temperature and stirred at 150 rpm with a magnetic stir bar for 3 h. All pretreatment reactions were conducted in duplicate.

Copyright code: [d41d8cd98f00b204e9800998ecf8427e](https://doi.org/10.1016/j.fuel.2016.08.088).