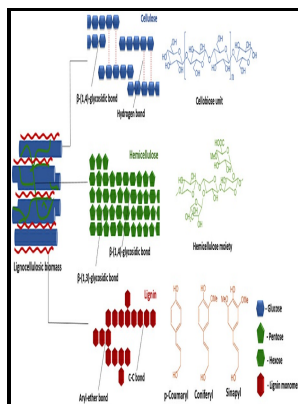


# Delignification methods of the future

## - - Delignification and Ionic Liquid Treatment of Wood toward Multifunctional High



Description: -

-delignification methods of the future

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### Understanding laccase/HBT

Compound II oxidizes  $Mn^{2+}$  to produce  $Mn^{3+}$ , the cation responsible to oxidize aromatic compounds. Changes in both cellulose morphol.

### Understanding laccase/HBT

Once having reached a steady state operation, the ozone application is adjusted solely under the coupled control procedure. Moreover, it is worth highlighting that the fabricated samples were totally additive-free composed entirely from wood components, and hence, only the interactions within the aligned cellulose fibers were decisive.

### High Selectivity Oxygen Delignification (Other)

Moreover, a correlation between some pulp properties and pyrolysis data could be established, showing the potential of this technique for lignin analysis when small pulp samples are used in bleaching optimization studies. The unique properties of VPs strongly suggest that they contribute to ligninolysis; however, the role of VPs in fungal delignification has not been reported before and their relative importance remains unclear.

### Delignification

Therefore, it can occupy only the terminal positions in the lignin chains. Brazilian economy is one of the most important agricultural-based economies in the world, being the first ranked worldwide in production and exportation of coffee, sugarcane, tropical fruits, beans and meat; second ranked in the production of ethanol, soybean and cassava and the third ranked in the production of corn.

### Process for delignification of cellulosic substances by pretreating with a complexing agent followed by peroxide prior to kraft digestion

Previously, a spare pulp digester was converted to a new extractor, and in 2009 it was demonstrated that a good hemicellulose extract could be produced, while simultaneously producing market pulp. This model is then use to est. The resulting lignins were characterized with the methods described above and were classified into three groups within which lignins show similar characteristics.

## **Quantitative mapping of lignin**

Acetyl groups can form strong hydrogen bonds with carboxyl groups, so deacetylation also increases the paths available for diffusion Sjöström et al. HS — increases the rate of lignin degradation by specifically promoting cleavage of  $\beta$ -aryl-ether linkages in phenolic units in the lignin molecule.

## **WO2016028244A1**

Both reactions promote lignin fragmentation and lignin solubilization, making the hydroxide ion a vital part in the removal of lignin. On the other hand, fungi co-culture is an alternative to generated and integrated process for ethanol production.

## **Scientists develop efficient methods to turn woody biomass into fuels**

Recently, Moniruzzaman and Ono 2012 described an enhanced method to promote the enzymatic delignification of wood chips, using ionic liquid swollen biomass in ionic liquid aqueous systems with the aim of overcoming the difficulties with accessibility of the enzyme and solubility of substrates and products. A weight of aqueous solution equal to 8 times the weight of dry wood was employed. Delignification process can be stopped when the chemical material consumption stops or the delignification rate decreases.

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