Biorefinery: a holistic approach targeting bio-materials, chemicals and fuels

by

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Abstract

Lignocellulosic biomass, such as wood, agricultural residues, consists of diversifying constituents, including cellulose, hemicellulose, and lignin. Biorefinery is not just for the purpose of producing bio-fuels, e.g., bio-ethanol. Rather, the integrated forest biorefinery concept calls for the full commercial exploitation of biomass, which is based on a holistic approach so that the value of each of constituents will be maximized, with a large spectrum of products, like bio-materials, chemicals and fuels. In this presentation, many of these examples are presented, focusing on those that the author and his co-workers have worked in the last 10 years or so.

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