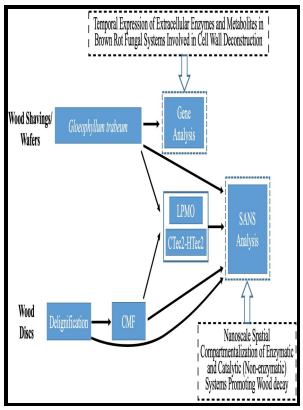
Microbial and enzymatic degradation of wood and wood components

Springer-Verlag - Litter decomposition in forest ecosystems: a review



Description: -
-
Cephalopoda -- Arctic regions.
Pteropoda -- Arctic regions.
Microbial metabolism.
Cellulose -- Biodegradation.
Wood-decaying fungi.
Wood -- Deterioration.Microbial and enzymatic degradation of wood and wood components
-
Springer series in wood scienceMicrobial and enzymatic degradation of wood and wood components
Notes: Includes bibliographical references (p. [335]-397) and index.
This edition was published in 1990

Filesize: 42.55 MB

Tags: #Enzymatic #and #microbial #processing #of #wood #and #wood #fiber #to #fuels #and #other #chemicals

CAB Direct

The chemical corrosion of the wood over many decades resulted in wood cells detaching and separating into a fibrous mass. This emphasizes the need of dissolved oxygen for growth by SR and TB; something that was available in the waters of Antarctic, where concentration of oxygen are close to saturation reflecting the annual phytoplankton blooms.

Enzymatic and microbial processing of wood and wood fiber to fuels and other chemicals

The plant litter quality is measured by means of chemical composition of nitrogen, phosphorus, potassium and chief cell wall components, such as lignin, cellulose and hemicelluloses that influence the litter decomposition and nutrient release Swift et al.

Enzymatic and microbial processing of wood and wood fiber to fuels and other chemicals

O 2 reduction to H 2O by the multicopper oxidases. Decay decreased 10 cm below seabed and only erosion bacteria were found able to degrade wood in the anoxic sediment layers at 48 cm depth.

Litter decomposition in forest ecosystems: a review

Update on microorganism technologies, projects at US Forest Products Lab abstract. SEM micrograph shows degradation of cell wall by tunnelling bacteria. Intriguingly, microorganisms have evolved to exploit these ancient mechanisms to also decompose synthetic plastic polymers.

CAB Direct

These cells have no middle lamella this is the area between cells that has high lignin concentration. Environments with slow decomposition rates and low surface litter deposition have k values less than 1.

Decay in historic and archaeological wood

In the wood weight loss test, both F. In soils, nitrogen is associated with the soil organic material, which contains about 5% of the total nitrogen Brady and Weil. Project Methods This research will consist of basic and applied studies on the discovery and use of microorganisms and enzymes to treat virgin fibers, recycled fibers, and wood residues.

Related Books

- Kloster, Priestermönch und Privatmesse - ihr Verhältnis im Westen von den Anfängen bis zum hohen Mit
- Hazrat Aisha.
- Segmentation of the Wasatch fault zone, Utah--summaries, analyses, and interpretations of geological
- Studentenbefragungen in der Bundesrepublik Deutschland - methodische Problematik, Themen- und Ergebn
- Intervista multistrato ad Aldo Carotenuto