Tsao

Recent Progress in Bioconversion of Lignocellulosics



This volume describes recent advances in the bioconversion of lignocellulosics. It starts with two articles on genetics and properties of cellulases and their re- tion kinetics and mechanisms. The cost of cellulases has been a hindrance to large scale use of enzymatic hydrolysis. Two articles on cellulase production by submerged fermentation and by solid state fementation are included to describe the state of the art in this area. Dilute acid hydrolysis of cellulose continues to be of interest as well as potentially useful. The most recent advances in this area is also covered. A great deal of progress has been made in genetic engineering for improved regulation of xylose fermentation by yeasts. An article on genetically engineered Saccharomyces for simulteaneous fermentation of glucose and xylose describes the importance advances made in production of fuel ethanol from lignocellulosic biomass. In recent years, there has been increasing interests in recycling and the reuse of scrap paper as well as environment considerations. A contribution is presented which describes the research perspectives in that area. Finally, recent advances in the use of lignocellulosic biomass for the p- duction of ethanol and organic acids are presented in two articles. Renewable resources are inevitably of great importance in the years to come. There is a never-ending search for better living conditions for human beings. The more resource materials can be recycled, the richer we will be.

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320,99 €
320,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783540655770
Medium: Buch
ISBN: 978-3-540-65577-0
Verlag: Springer
Erscheinungstermin: 02.09.1999
Sprache(n): Englisch
Auflage: 1. Auflage 1999
Serie: Advances in Biochemical Engineering/Biotechnology
Produktform: Gebunden
Gewicht: 1350 g
Seiten: 292
Format (B x H): 160 x 241 mm

fachmedien.de
WISSEN. EINFACH. FINDEN.

27.11.2026 | 12:25 Uhr

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)