

Lignocellulose Biotechnology

Future Prospects

Editors

R.C. Kuhad • Ajay Singh



I.K. International

**Lignocellulose Biotechnology Techniques And
Applications Hardcover 2007 By R C Kuhad**

Hongzhang Chen



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Extremophiles Pratibha Dheeran,Sachin Kumar,2023-04-07 This book Extremophiles Wastewater and Algal Biorefinery explores the potential of extremophiles extremotolerant organisms in wastewater treatment biorefining of algal biomass and in the treatment of industrial waste effluent The book provides a holistic overview about the current status of extremophiles in waste water treatment and various industrial processes The chapters comprehensively cover the scientific and research findings on various industrial applications of extremophiles such as biofuels extremozymes electricity generation biofilms microbial corrosion and waste water treatment etc This book is an integrated source of literature for the scientists engineers academicians and students working in the area of extremophiles microbial technology and biorefinery **Sustainable**

Degradation of Lignocellulosic Biomass Anuj Chandel,Silvio Silverio Da Silva,2013-05-15 This book provides important aspects of sustainable degradation of lignocellulosic biomass which has a pivotal role for the economic production of several value added products and biofuels with safe environment Different pretreatment techniques and enzymatic hydrolysis process along with the characterization of cell wall components have been discussed broadly The following features of this book attribute its distinctiveness This book comprehensively covers the improvement in methodologies for the biomass pretreatment hemicellulose and cellulose breakdown into fermentable sugars the analytical methods for biomass characterization and bioconversion of cellulose into biofuels In addition mechanistic analysis of biomass pretreatment and enzymatic hydrolysis have been discussed in details highlighting key factors influencing these processes at industrial scale

Lignocellulosic Biomass Production and Industrial Applications Arindam Kuila,Vinay Sharma,2017-05-11 This book covers the utilization of lignocellulosic biomass for biofuel production as well as other industrial applications such as in biotechnology paper and pulp chemical and bioplastics Lignocellulosic materials such as agricultural residues e g wheat straw sugarcane bagasse corn stover forest products hardwood and softwood and crops such as switchgrass and salix are becoming a potent source for generating valuable products Lignocellulosic Biomass Production and Industrial Applications describes the utilization of lignocellulosic biomass for various applications Although there have been numerous reports on lignocellulosic biomass for biofuel application there have been very few other applications reported for lignocellulosic biomass based biotechnology chemicals and polymers This book covers both application areas Besides describing the various types of biofuel production such as bioethanol biobutanol biodiesel and biogas from lignocellulosic biomass it also presents various other lignocellulosic biomass biorefinery applications for the production of enzymes chemicals polymers paper and bioplastics In addition there are chapters on valorization of lignocellulosic materials alkali treatment to improve the physical mechanical and chemical properties of lignocellulosic natural fibers and a discussion of the major benefits limitations and future prospects of the use of lignocellulosic biomass *Agro-Industrial Wastes as Feedstock for Enzyme Production* Gurpreet S. Dhillon,Surinder Kaur,2016-08-25 Agro industrial Wastes as Feedstock for Enzyme Production Apply and Exploit

the Emerging and Valuable Use Options of Waste Biomass explores the current state of the art bioprocesses in enzyme production using agro industrial wastes with respect to their generation current methods of disposal the problems faced in terms of waste and regulation and potential value added protocols for these wastes It surveys areas ripe for further inquiry as well as future trends in the field Under each section the individual chapters present up to date and in depth information on bioprospecting of agro industrial wastes to obtain enzymes of economic importance This book covers research gaps including valorization of fruit and vegetable by product a key contribution toward sustainability that makes the utmost use of agricultural produce while employing low energy and cost efficient bioprocesses Written by experts in the field of enzyme technology the book provides valuable information for academic researchers graduate students and industry scientists working in industrial food microbiology biotechnology bioprocess technology post harvest technology agriculture waste management and the food industry Addresses key opportunities and challenges in the emerging field of enzyme technology with an emphasis on energy and bio based industrial applications Explores the current state of the art bioprocesses in enzyme production using fruit and vegetable wastes with respect to their generation current methods of disposal and problems faced in terms of waste and regulation Presents in depth information on bioprospecting of fruit and vegetable to obtain enzymes of economic importance Delves into environmental concerns and economic considerations related to fruit and vegetable processing by products

Confronting Global Climate Change Mark Harris, 2019-06-07 This book offers a solutions based approach to climate change problems which potentially impinge on human beings within the tropics It largely comprises research articles with supplementary applications and illustrations The effects of atmospheric phenomena energy acquisition wind power CO₂ sequestration are linked with soils aquatic life reducing deforestation rainwater harvesting and clay pot farming climate plant disease and food security to show that no area of life is untouched by the phenomenon of climate change It discusses specific problem areas and provides an overview of geotechnical and sustainable solutions to lessen the impact of climate

Lignocellulose Biotechnology Ramesh Chander Kuhad, Ajay Singh, 2007 The agricultural and forestry processing wastes lignocellulosics are an important material resource and energy source However if untreated they can pose a danger to the environment and potentially valuable resources Microorganisms contribute significantly to solving the problem of biomass degradation its recycling and conservation In the recent years an increasing interest shown by the textile food feed pulp and paper industries in the microbial and enzymatic processes has triggered in depth studies of lignocellulolytic microorganisms and their enzymes Moreover the advent of recombinant DNA technology in the late 1970s further paved the way for developing technologies based on lignocellulolytic microbes and enzymes Lignocellulose Biotechnology presents a comprehensive review of the research directed towards environmentally friendly agricultural and forest by products The book comprises 22 chapters divided in four sections It deals with a wide range of topics including biodiversity of lignocellulose degrading microorganisms and their enzymes molecular biology of biodegradation of lignin

characterization of lignocellulolytic enzymes bioconversion of plant biomass to produce enzymes animal feed bioethanol and industrial applications of lignocellulolytic enzymes The chapters dealing with industrial applications also address current biotechnological approaches in lignocellulose bioconversion to value added products This book is essential for students researchers scientists and engineers working in the fields of environmental microbiology environmental biotechnology life sciences waste management and biomaterials *Biotechnology of Lignocellulose* Hongzhang Chen, 2014-04-21 This book presents and summarizes the new thoughts new methods and new achievements that have emerged in the biotechnology of lignocellulose in recent years It proposes new concepts including the primary refining fractionation multi level utilization and selective structural separation of lignocellulose etc By approaching lignocellulose as a multi level resource biotechnology could have a significant effect on ecological agriculture bio energy the chemical and paper making industries etc ultimately establishing distinctive eco industrial parks for lignocellulose Additionally this book provides systematic research methods for the biotechnology of lignocellulose including investigation methods for the primary refining of lignocellulose for microbial degradation and enzymatic hydrolysis for cellulose fermentation and for lignocellulose conversion processes It offers an excellent reference work and guide for scientists engaging in research on lignocellulose Dr Hongzhang Chen is a Professor at the Institute of Process Engineering of the Chinese Academy of Sciences Beijing China *Lignocellulose for Future Bioeconomy* Hidayah Ariffin, S. M. Sapuan, Mohd Ali Hassan, 2019-04-20 Lignocellulose for Future Bioeconomy discusses the conversion and utilization of lignocellulosic biomass This book focuses on the utilization of lignocelluloses for various products including biopolymers bionanomaterials and bioproducts Recent findings in scientific investigation engineering product development economic and lifecycle analysis are discussed as are current synthesis technologies and potential applications The book progresses from a discussion of the potential sources of biomass to the refinement and processing of materials A sampling of various sustainability issues faced by industries in their production methods and a look at real world examples of the use of lignocellulose based materials in the bioeconomy round out the discussion Presents information on lignocellulosic biomass management and its utilization for the production of bioproducts biopolymers and bionanomaterials Highlights the applications of advanced materials developed from lignocellulosic biomass and their contribution towards future bioeconomy Discusses the lifecycle of lignocellulosic biomass **Lignocellulose** Kelly L. Pittman, 2015 This book is focused on new developments in lignocellulose research In particular lignocellulosic biomass has been the focus of considerable attention for the production of a wide range of valuable products in biorefineries which aim to utilize renewable starting material instead of fossil based products The authors focus on the usage of hemicellulose to produce various bio based products including platform chemicals that have considerable market potential in the coming years Other chapters in the book review studies which have explored how the lignocellulose morphological structure affects the enzymatic hydrolysis reaction and the corresponding plant cell wall structural changes Other chapters describe the state of the art of pretreatment

processes fermentation processes microbial lipid accumulation pathway and methanolysis of the microbial lipids to increase the yields of biodiesel as well as the challenges associated with the use of lignocellulosic biomass LCB the ways in which membrane technology has been gaining widespread recognition to substitute the existing separation and purification technologies specifically the applications of ionic liquid based membranes and the quantitative composition of secretome of potent biomass hydrolyzing fungi along with their post translational modifications and also the role of PTMs

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