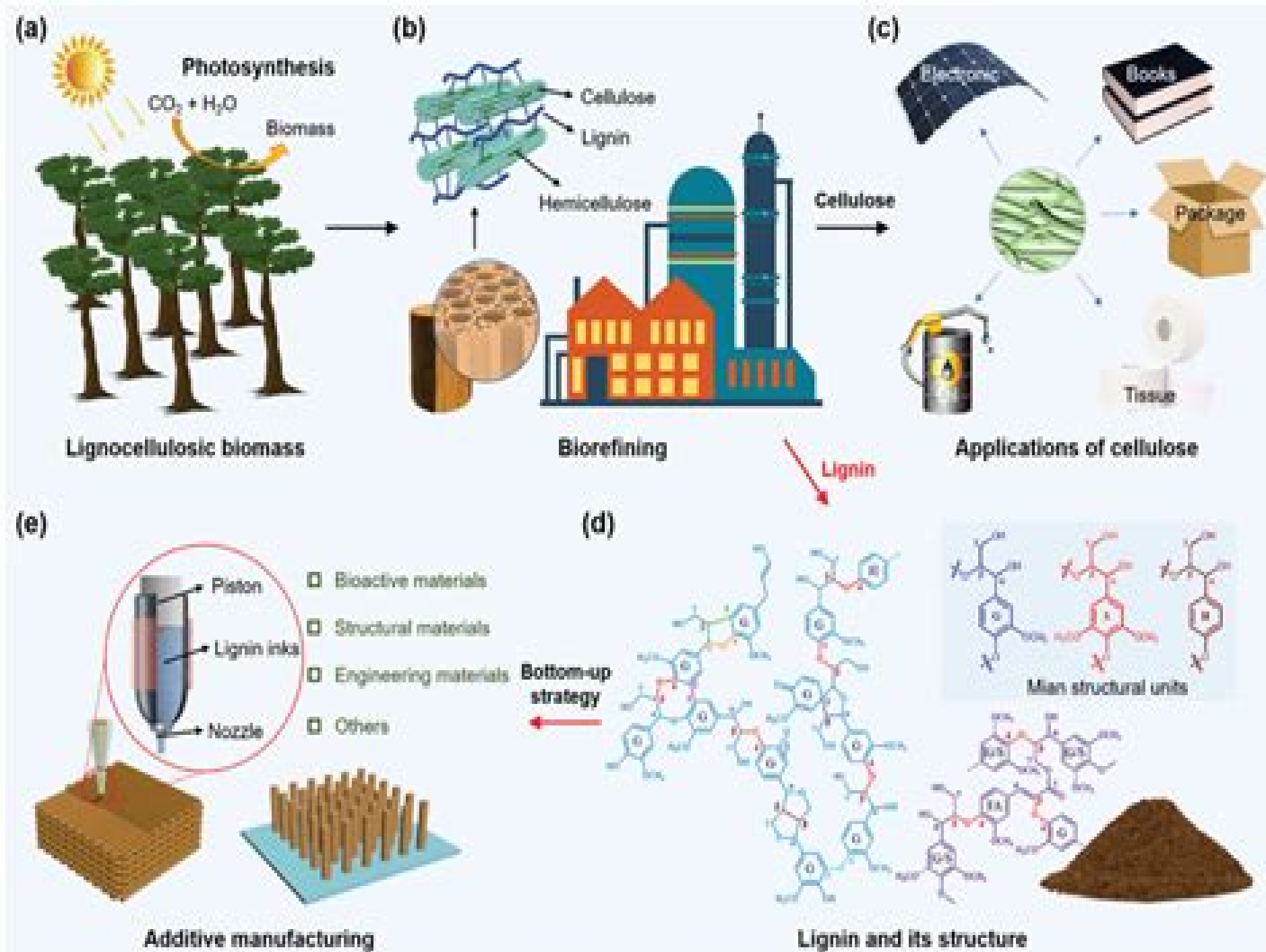




Lignocellulose Biotechnology Techniques And Applications

**Shashi Kant Bhatia, Parmjit Singh
Panesar, Ranjit Gurav**



Lignocellulose Biotechnology Techniques And Applications:

Lignocellulosic Biomass in Biotechnology Pratima Bajpai, 2021-07-13 Lignocellulosic Biomass in Biotechnology highlights significant aspects of lignocellulose biotechnology demonstrating its potential value from an application perspective Sections cover the physico chemical characteristics of lignocellulosic biomass the physical and structural properties of hemicelluloses celluloses and lignin sources of lignocellulosic biomass microorganisms and their lignocellulytic enzymes enzymatic degradation of lignocellulosic biomass regulation of cell wall degrading enzymes barriers to lignocellulose biodegradation biotechnological importance of lignocellulosic biomass lignocellulosic pretreatment techniques bioprocessing of lignocellulosic biomass lignocellulosic biomass pretreatment methods valuable chemicals and products techno economic evaluation and future perspectives This book answers questions surrounding the biotechnology of lignocelluloses It is ideal for both students and professionals in the industry supply chain It also provides a reference for researchers and administrators engaged in the utilization and industrial development of agricultural resources Presents recent advances in the processing of lignocellulosic biomass Highlights significant aspects of lignocelluloses biotechnology with an emphasis on its potential value from an application perspective Looks at the cost of enzymes and the potential of modern approaches that could be employed to reduce the cost Summarizes the new achievements that have emerged in the biotechnology of lignocelluloses in recent years Discusses a wide range of topics related to the fundamental and applied aspects of lignocellulose utilization processing and biotechnological applications Biotechnological Applications of Biomass Thalita Peixoto Basso, Thiago Olitta Basso, Luiz Carlos Basso, 2021-08-18 Biotechnological Applications of Biomass provides a comprehensive overview of the current state of the art of biomass utilization in agriculture and pharmaceuticals The information contained herein is useful to researchers and other readers interested in biomass utilization and production of bioproducts *Value Addition and Utilization of Lignocellulosic Biomass* Gunjan Mukherjee, Sunny Dhiman, 2025-03-28 This book addresses the pressing global challenge of lignocellulosic biomass waste by exploring innovative technological solutions for its mitigation and conversion into valuable products One of the key challenges faced is the effective management of lignocellulosic biomass waste generated from various industries including agriculture forestry and food processing The demand for sustainable solutions for lignocellulosic waste management is steadily increasing driven by environmental concerns government regulations and the pursuit of circular economy principles This book aims to delve into the innovative technological solutions driving these transformations It provides valuable insights into the transformative potential of these approaches in lignocellulosic biomass waste mitigation and the transition towards a more sustainable environment This book is a definitive resource for researchers professionals and policymakers engaged in the fields of lignocellulosic biomass valorisation waste management and sustainable development The exploration of case studies economic assessments and policy perspectives will contribute to the body of knowledge in this critical field and facilitate the

transition towards a more sustainable future

Lignocellulosic Biomass Production and Industrial Applications

Arindam Kuila, Vinay Sharma, 2017-06-01 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

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

Biotechnology for Zero Waste

Chaudhery Mustansar Hussain, Ravi Kumar Kadeppagari, 2022-01-18 Biotechnology for Zero Waste The use of biotechnology to minimize waste and maximize resource valorization In Biotechnology for Zero Waste Emerging Waste Management Techniques accomplished environmental researchers Drs Chaudhery Mustansar Hussain and Ravi Kumar Kadeppagari deliver a robust exploration of the role of biotechnology in reducing waste and creating a zero waste environment The editors provide resources covering perspectives in waste management like anaerobic co digestion integrated biosystems immobilized enzymes zero waste biorefineries microbial fuel cell technology membrane bioreactors nano biomaterials and more Ideal for sustainability professionals this book comprehensively sums up the state of the art biotechnologies powering the latest advances in zero waste strategies The renowned contributors address topics like bioconversion and biotransformation and detail the concept

of the circular economy Biotechnology for Zero Waste effectively guides readers on the path to creating sustainable products from waste The book also includes A thorough introduction to modern perspectives on zero waste drives including anaerobic co digestion as a smart approach for enhancing biogas production Comprehensive explorations of bioremediation for zero waste biological degradation systems and bioleaching and biosorption of waste Practical discussions of bioreactors for zero waste and waste2energy with biotechnology An in depth examination of emerging technologies including nanobiotechnology for zero waste and the economics and commercialization of zero waste biotechnologies Perfect for process engineers natural products environmental soil and inorganic chemists Biotechnology for Zero Waste Emerging Waste Management Techniques will also earn a place in the libraries of food technologists biotechnologists agricultural scientists and microbiologists

Lignocellulosic Biomass and Enzymes Rajeev Kumar Kapoor,Kalavathy Rajan,2025-05-26 This book aims to offer comprehensive insights into biomass pretreatment and utilization for recovering value added products The book focuses on various topics including lignocellulosic biorefinery challenges lignolytic enzymes bioprocess advancements and emerging industrial applications It also serves as a knowledge repository on the use of lignocellulosic biomass and enzymes in biotechnological processes bio composites development pulp and paper processing bio energy production biomass detoxification and more Chapters of this book cover a broad focus on enzyme technologies treatment strategies and the application of industrially important enzymes Chapters cover the unique features like the focus on economically feasible treatment strategies and highlight the book s emphasis on practicality The book includes aspects of microbial enzymes and biomass overview advancements in biomass pretreatment metabolic and genetic engineering approaches improved process and recovery strategies eco friendly bio bleaching in the pulp and paper industry bioethanol production and lignocellulose biorefinery This book is targeted towards a diverse audience including undergraduates postgraduates and researchers in academia and industries Microbial Oxidative Enzymes Arti Gupta,Pankaj Kumar,2023-12-31 Microbial oxidative enzymes are in need of today and in the future also Several microbial oxidative enzymes are being used by various sectors like food agriculture medicine detergents leather paper etc Microbial oxidative enzymes are a natural product hence the application of these enzymes is eco friendly Oxidative enzymes from microbes like bacteria and fungi will be helpful in numerous applications including plant soil health management and waste treatments This book will be more informative as well as useful for related industries and end users and will be of great value to those interested in present day research on oxidation reduction enzymes In the coming years this book will be a game changer for the field of oxidative enzyme development and its applications **Utilising Biomass in Biotechnology** Helen Treichel,Gislaine Fongaro,Thamarys Scapini,Aline Frumi Camargo,Fábio Spitz Stefanski,Bruno Venturin,2019-10-15 This book addresses the developing area of biomass for technological applications Written by leading researchers in the field the book differs from other literature available by providing a detailed in depth discussion of the characteristics of these materials The use of biomass for technological

applications is a rapidly growing area in materials engineering and green bioprocesses. In this approach, pre-treatments focus on the bioavailability of nutrients and facilitate the use of biomass for delivering byproducts e.g. enzymes and for bioenergy production, both of which are discussed at length in this book. In this regard, it explores various aspects of the structural complexity of residual biomass produced by agricultural, industrial and livestock activities for biotechnological purposes and assesses both conventional and emerging pre-treatments e.g. biological, enzymatic and physical-chemical. This book reveals the advantages of these techniques both individually and in combination, making it an excellent resource for all readers interested in cutting-edge applications of biomass.

Extremophilic Enzymatic Processing of Lignocellulosic

Feedstocks to Bioenergy Rajesh K. Sani, R. Navanietha Krishnaraj, 2017-06-23. This book introduces fundamentals of enzymatic processes, various renewable energy resources and their pretreatment processes. It presents in-depth review of extremophilic enzymes e.g. Cellulases, Xylanases, Lytic Polysaccharide Monooxygenases, Amylases, Ligninases, Pectinases, Esterases and Chitinases which can be used in several biotechnological processes. In addition, the authors present expert knowledge on how to engineer enzymes for enhanced conversion of lignocellulosic feedstocks to biofuels. Extremozymes play important roles in many kinds of bioprocessing e.g. in conversion of non-food biomass into usable power. Existing enzymatic technologies including hydrolysis of lignocellulose into sugars have several limitations such as they have very slow enzymatic hydrolysis rates, yields low products, requires high dosages of enzymes and are sensitive to microbial contamination problems. These limitations could be overcome using extremophilic enzymes.

Bioresources and Bioprocess in Biotechnology

Shiburaj Sugathan, N. S. Pradeep, Sabu Abdulhameed, 2017-05-26. This book is a compilation of detailed articles on various products and services that can be derived from bioresources through bioprocess. It offers in-depth discussions and case studies on commercially and therapeutically important enzymes, antimicrobials, anti-cancer molecules and anti-inflammatory substances. It also includes a separate section on emerging trends in bioactive substances research. This unique book is a valuable source of information for biotechnologists and bioprocess experts as well as academics and researchers who are actively involved in product and process development.

Fungal Applications in Sustainable Environmental

Biotechnology Diane Purchase, 2016-09-13. Fungi are distinct eukaryotic organisms renowned for their remarkable biodiversity and extensive habitat range. Many fungal species have long been exploited for food and medicines. This volume considers other important applications of fungal biotechnology especially in an environmental context, showcasing the essential contributions of these amazingly versatile organisms. It explores how fungi offer sustainable solutions to tackle various environmental concerns. Written by eminent experts in their fields, this work presents a broad array of current advances and future prospects in fungal environmental biotechnology and discusses their limitations and potential. The book is organized in five parts, each addressing a theme of the UN Sustainable Development Goals: SDG 2 (strengthen food security), Zero Hunger, wastewater treatment, Clean Water, Sanitation, pollution reduction, Life on Land, biofuel production, Affordable

Clean Energy and biosynthesis of novel biomolecules Responsible Consumption Production **Encyclopedia of Renewable Energy, Sustainability and the Environment** ,2024-08-09 Encyclopedia of Renewable Energy Sustainability and the Environment Four Volume Set comprehensively covers all renewable energy resources including wind solar hydro biomass geothermal energy and nuclear power to name a few In addition to covering the breadth of renewable energy resources at a fundamental level this encyclopedia delves into the utilization and ideal applications of each resource and assesses them from environmental economic and policy standpoints This book will serve as an ideal introduction to any renewable energy source for students while also allowing them to learn about a topic in more depth and explore related topics all in a single resource Instructors researchers and industry professionals will also benefit from this comprehensive reference Covers all renewable energy technologies in one comprehensive resource Details renewable energies processes from production to utilization in a single encyclopedia Organizes topics into concise consistently formatted chapters perfect for readers who are new to the field Assesses economic challenges faced to implement each type of renewable energy Addresses the challenges of replacing fossil fuels with renewables and covers the environmental impacts of each renewable energy Biotechnological Applications in Industrial Waste Valorization Vineet Kumar,Pradeep Verma,2025-04-09 This book overviews the cutting edge applications of biotechnological tools and techniques in valorizing industrial waste to achieve the United Nations Sustainable Development Goals It provides comprehensive insights into the latest research technologies processes and case studies making it an invaluable resource for researchers professionals policymakers and students interested in waste management bioenergy recovery and sustainable development By transforming industrial waste into high value products this book fosters a circular economy and lessens environmental strain bridging the gap between academia and industry with practical solutions and innovative strategies It seeks to fill the gap between academics and industry by outlining workable solutions and discussing cutting edge tactics that can be used in realistic situations While providing an in depth exploration of advanced biotechnological techniques being widely used to valorize industrial waste the book covers a wide range of issues that help academics and professionals efficiently deal with various waste streams such as microbial bioremediation renewable energy resource recovery enzymatic degradation metabolic engineering bioprocess development and others The book intends to motivate and guide students researchers practitioners and policymakers in pursuing sustainable waste management strategies by exhibiting the revolutionary power of microbial technology The concise and impartial content structure will also benefit corporate researchers It is an essential resource for anyone interested in the intersection of biotechnology and environmental sustainability offering insights that are both academically rigorous and practically applicable Advances in Sustainable Biomaterials Ajay Kumar,D. K. Rajak,Parveen Kumar,Ashwini Kumar,2024-10-28 Sustainable biomaterials are used as substitutions for traditional materials in aerospace automotive civil mechanical environmental engineering medical and other industries This book presents the current knowledge and recent developments

on the characterization and application of sustainable biomaterials with biomanufacturing 4.0 techniques. The book also describes the unique properties of various classes of sustainable biomaterials making them highly suitable for many industrial applications. *Advances in Sustainable Biomaterials Bioprocessing 4.0 Characterizations and Applications* presents key chapters on smart biopolymer composites production and processing methods and provides a wide range of applications in a variety of fields such as medical food agriculture electronics manufacturing and chemical engineering. The book features the most recent and detailed information on advancements in biopolymer biomaterials and emphasizes synthesis characterization modeling manufacturing and testing strategies. Written to be used as a resource guide on biomaterials and innovations, undergraduate and postgraduate students studying manufacturing and materials science will find this book very useful. In addition to those working in mechanical engineering biomedical engineering manufacturing of pharmaceuticals biotechnology and electronics engineering fields, the book can also be used as additional classroom reading for an advanced course on biomaterials modeling and optimization.

Industrial Biotechnology Devarajan Thangadurai, Jeyabalan Sangeetha, 2017-03-03. This important new book covers recent advancements, innovations and technologies in industrial biotechnology, specifically addressing the application of various biomolecules in industrial production and in cleaning and environmental remediation sectors. The goal of industrial biotechnology is to develop new techniques and technologies to transform renewable raw materials into chemicals, materials and fuels by the substitution of fossil fuels. With the increase in the world's population and the resultant growing energy demand, the need for more energy can be successfully met with the advancements in industrial biotechnology. Currently across the globe, significant research has been undertaken in the production of cleaner fuels, materials and semi-synthetic chemicals with environmental benefits. Developing countries have huge agricultural resources that could be utilized for production of value-added byproducts for the sustainable development of a bio-based economy. The book opens with the chapter on the production of exopolysaccharides from halophilic microorganisms, a polymer that is normally very useful in various production sectors of the food, pharmaceutical and petroleum industries. The book goes on to cover the production of antimicrobial compounds from alkaliphilic bacteria, thermophilic actinomycetes, food, agro and pharmaceutical potential and biotechnological applications of biosurfactants, halophiles, cyclodextrin, glycosyl transferase, fungal chitinase, proteases, yeasts and yeast products. Also covered in the book are the environmental aspects of industrial biotechnology such as the genetic enhancement for biofuel production, the production of biodegradable thermoplastics, advancements in the synthesis of bio-oil, ecofriendly treatment of agro-based lignocelluloses and anaerobic bio-reactors for hydrocarbon remediation. The international roster of chapter authors have been chosen for their renowned expertise and contribution to the various fields of industrial biotechnology. This book is suitable to chemists, biotechnologists, from research institutes, academia and students as well as for industry professionals.

Technologies for Biochemical Conversion of Biomass Hongzhang Chen, Lan Wang, 2016-12-14. Technologies for

Biochemical Conversion of Biomass introduces biomass biochemical conversion technology including the pretreatment platform enzyme platform cell refining platform sugar platform fermentation platform and post treatment platform Readers will find a systematic treatment not only of the basics of biomass biochemical conversion and the introduction of each strategy but also of the current advances of research in this area Researchers will find the key problems in each technology platform for biomass biochemical conversion identified and solutions offered This valuable reference book features new scientific research and the related industrial application of biomass biochemical conversion technology as the main content and then systematically introduces the basic principles and applications of biomass biochemical conversion technology Combines descriptions of these technologies to provide strategies and a platform for biochemical conversion in terms of basic knowledge research advances and key problems Summarizes models of biomass biochemical conversion for multiple products Presents products of biomass biochemical conversion from C1 to C10 Microbial Biofuel Shashi Kant Bhatia, Parmjit Singh Panesar, Ranjit Gurav, 2025-03-07 Microbial Biofuel A Sustainable Source of Renewable Energy explores microbial biofuel production from a technical standpoint addressing a wide range of topics including bio alcohol biodiesel biohydrogen biomethane biohythane jet fuel drop in fuel bioelectricity bio oil biomass to biofuel carbon capture and more Each chapter provides an in depth examination of a specific biofuel type discussing the underlying science production processes challenges and its potential applications The title draws examples from the latest research and advancements in the field including cutting edge technologies methodologies and case studies It covers advances in fermentation strategies and commercial scale implementation of microbial technology for biofuel production along with comprehensive information on bio alcohol biodiesel biohydrogen biomethane etc The book explores practical applications of microbial biofuels and uses real life examples and case studies Moreover the book discusses sustainability and environmental benefits of using renewable energy The title is an ideal read for graduate students and researchers specialising in bioenergy and chemical engineering Advances in Ethanol Research and Application: 2013 Edition , 2013-06-21 Advances in Ethanol Research and Application 2013 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about ZZZAdditional Research in a concise format The editors have built Advances in Ethanol Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Ethanol Research and Application 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at [http www ScholarlyEditions com](http://www.ScholarlyEditions.com) **Innovative Biorefinery Processes for Agri-Food Value Chains** Brijesh K Tiwari, Milica

Pojic,Xianglu Zhu,2025-08-01 Innovative Biorefinery Processes for Agri Food Value Chains provides detailed information on biorefinery concepts and technologies and their applications in agri food value chains It covers various topics related to biorefinery such as biomass feedstocks conversion technologies product recovery and economic and environmental sustainability Divided into five sections the first one brings the definitions and fundamental information of agri food biorefinery The second section explores biomass for agri food biorefinery Section three deals with technological aspects of biorefinery while Section four brings Novel value chains using renewable biomass for food biorefinery and bioproducts and Section five presents the environmental and social aspects of biorefinery The book also includes case studies and examples of successful biorefinery projects from around the world Edited by a team of experts in the field this book is a great resource for researchers academics industry professionals policymakers and graduate and post graduate students working in the fields of food science and technology agriculture and sustainable development Discusses the economic and environmental sustainability of biorefinery systems including their impact on the circular economy and the bioeconomy Covers the application of biorefinery in agri food value chains including case studies and examples Explains biorefinery concepts and technologies including their benefits and limitations

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Lignocellulose Biotechnology Techniques And Applications Introduction

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