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Biotechnology Of Lignocellulose Theory And Practice

**Arun Lal Srivastav, Abhishek Kumar
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Biotechnology Of Lignocellulose Theory And Practice:

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Biotechnology of Lignocellulose Hongzhang Chen, 2014-05-02 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

The Principles of Green Energy and Technology, Volume 2 Surajbhan Sevda, 2025-10-28 The Principles of Green Energy and Technology A Guide to Green Technology Eco Innovations presents a comprehensive exploration of sustainable energy solutions and innovative technologies shaping our transition toward a low carbon future Covering critical topics such as biomass utilization fuel stoichiometry flue gas analysis waste to energy conversion smart grids and energy storage for solar power the book offers in depth insights into current and future energy systems It also addresses global renewable resources fossil fuel reserves and pollution sources from conventional energy technologies making it an essential guide for researchers professionals and students in the field of green energy and sustainability

The Handbook of Polyhydroxyalkanoates Martin Koller, 2020-11-05 The first volume of the Handbook of Polyhydroxyalkanoates PHA Microbial Biosynthesis and Feedstocks focusses on feedstock aspects enzymology metabolism and genetic engineering of PHA biosynthesis It addresses better understanding the mechanisms of PHA biosynthesis in scientific terms and profiting

from this understanding in order to enhance PHA biosynthesis in bio technological terms and in terms of PHA microstructure It further discusses making PHA competitive for outperforming established petrol based plastics on industrial scale and obstacles for market penetration of PHA Aimed at professionals and graduate students in Polymer plastic industry wastewater treatment plants food industry biodiesel industry this book Covers the intracellular on goings in PHA accumulating bacteria Assesses diverse feedstocks to be used as carbon source for PHA production including current knowledge on PHA biosynthesis starting from inexpensive waste feedstocks Summarizes recent relevant results dealing with PHA production from various organic by products Presents the key elements to understand and fine tune the microstructure and sequence controlled molecular architecture of PHA co polyesters Discusses the use of CO rich syngas sourced from various organic waste materials for PHA biosynthesis

The Handbook of Polyhydroxyalkanoates, Three Volume Set

Martin Koller, 2020-11-05 The Handbook of Polyhydroxyalkanoates PHA focusses on and addresses varying facets of PHA biosynthesis and processing spread across three volumes The first volume discusses feedstock aspects enzymology metabolism and genetic engineering of PHA biosynthesis It addresses better understanding the mechanisms of PHA biosynthesis in scientific terms and profiting from this understanding in order to enhance PHA biosynthesis in bio technological terms and in terms of PHA microstructure It further discusses making PHA competitive for outperforming established petrol based plastics on industrial scale and obstacles for market penetration of PHA This second volume focusses on thermodynamic and mathematical considerations of PHA biosynthesis bioengineering aspects regarding bioreactor design and downstream processing for PHA recovery from microbial biomass It covers microbial mixed culture processes and includes a strong industry focused section with chapters on the economics of PHA production industrial scale PHA production from sucrose next generation industrial biotechnology approaches for PHA production based on novel robust production strains and holistic techno economic and sustainability considerations on PHA manufacturing Third volume is on the production of functionalized PHA bio polyesters the post synthetic modification of PHA processing and additive manufacturing of PHA development and properties of PHA based bio composites and blends the market potential of PHA and follow up materials different bulk and niche applications of PHA and the fate and use of spent PHA items Divided into fourteen chapters it describes functionalized PHA and PHA modification processing and their application including degradation of spent PHA based products and fate of these bio polyesters during compositing and other disposal strategies Aimed at professionals and graduate students in Polymer plastic industry wastewater treatment plants food industry biodiesel industry this set Presents comprehensive and holistic consideration of these microbial bioplastics in the volumes Enables reader to learn about microbiological enzymatic genetic synthetic biology and metabolic aspects of PHA biosynthesis based on the latest scientific discoveries Discusses design and operate a PHA production plant Strong focus on post synthetic modification preparation of functional PHA and follow up products and PHA processing Covers all related engineering

considerations Smart Biocomposite Materials Md Rezaur Rahman, Muhammad Khusairy Bin Bakri, 2025-11-27 Smart Biocomposite Materials Fabrication Applications and Sustainability presents the latest advancements in this important research field. The book offers comprehensive insights into the classification, innovative fabrication techniques, and functional fillers of biocomposite materials. Additionally, it addresses mechanical performance, environmental impact, bio-sustainability, high performance applications, and practical implementation. This resource is essential for professionals seeking to adopt sustainable materials in future research projects. Beyond the technical aspects, the book also examines ethical, cultural, and societal factors, providing a holistic view of biocomposite materials. It outlines key challenges and future directions while offering in-depth technical insights to aid informed decision-making. Presents the latest research findings on the properties, manufacturing, and potential future applications of intelligent biocomposite materials. Includes practical guidelines and best practices for incorporating intelligent biocomposite materials into various industrial products, offering step-by-step approaches and real-world examples. Provides quantifiable sustainability metrics along with LCA, helping readers to assess the environmental impact of their material choices. Covers applications in intelligent sensors and actuators in drug delivery and in the biomedical, aerospace, automotive, and construction sectors. Features case studies from various global regions and industries to showcase how these materials can be used in different cultural and economic contexts, emphasizing the inclusivity of sustainable practices.

Advanced Applications of Biobased Materials Shakeel Ahmed, Annu Tomer, 2023-03-01 Advanced Applications of Biobased Materials: Food, Biomedical, and Environmental Applications brings together cutting-edge developments in the preparation and application of biobased materials. This book begins by providing an overview of biobased materials, their classification, and their physical and chemical modifications. This is followed by a section covering the latest techniques in fabrication, processing, and characterization. Subsequent chapters are grouped by application area, offering insights into advanced and emerging utilizations of biobased materials in food, biomedical, environmental, and other industrial applications. The final part of the book highlights other key considerations, including life cycle assessment, circular economy, sustainability, and future potential. Presents processing methods, characterization techniques, and the latest advances in biobased materials. Focuses on advanced and emerging applications of biobased materials in three key areas: food, biomedicine, and the environment. Considers sustainability issues relating to biobased materials, including environmental impact, lifecycle assessment, and the circular economy.

Valorization of Biomass Wastes for Environmental Sustainability Arun Lal Srivastav, Abhishek Kumar Bhardwaj, Mukesh Kumar, 2024-03-14 This volume discusses the reduction, recycling, and reuse of industrial and agricultural biomass wastes to develop value-added products using environmentally sustainable practices and technologies. Through these waste valorization approaches, biomass waste materials can be converted into useful bio-chemical products, sustainable construction materials, polymers, bio-energy, and bio-fuel as sustainable alternatives to products and materials with negative environmental and health consequences. The chapters

highlight the development and implementation of eco friendly solutions to biomass waste production with the aim of reducing natural resource deterioration bolstering rural and small scale business systems in communities impacted by pollution and climate change and providing power from residual biomass to broadly reduce environmental impacts through improved waste management practices The book is intended to be a useful resource for researchers policymakers NGOs government agencies and local community authorities working in waste management and environmental sustainability Fermentative Hydrogen Production Yanan Yin,Jianlong Wang,2024-07-30 Fermentative Hydrogen Production From Fundamentals and Processes is a comprehensive examination of the theoretical and operational aspects of dark fermentative production of hydrogen The book presents the latest technological developments analyzes advantages and challenges and discusses the potential for the maturity of dark fermentation Part One analyzes the various technologies for hydrogen production purification storage applications and safety In Part Two first to third generation feedstocks are reviewed as well as co fermentation and solid and liquid wastes Part Three examines the typical hydrogen producing microorganisms in both pure and mixed cultures along with sequencing techniques pretreatment considerations and engineering options Part Four discusses influencing factors such as operational parameters promoters inhibitors and has a dedicated section on the effects of Iron Finally Part Five directly compares dark hydrogen with other hydrogen production technologies through life cycle environmental impact assessments highlighting bottlenecks and challenges in scaling up these technologies Critically reviews the fundamentals and environmental impacts of biological hydrogen production technologies Evaluates and compares various feedstocks for biohydrogen production including co fermentation of different feedstocks Examines the use of pure and mixed cultures Provides case studies with real world applications of the technologies discussed in the book

Higher Alcohols Production Platforms Hamid Amiri,Meisam Tabatabaei,Abdul-Sattar Nizami,2023-09-27 Higher Alcohols Production Platforms From Strain Development to Process Design comprehensively covers the production of higher alcohols from the fundamentals to the latest research Bringing together experts from industry and academia the book sheds light on the practical aspects of higher alcohol production and offers a roadmap for researchers to follow In addition to the fundamentals of higher alcohol production readers are presented with detailed information on up and downstream processes including microbial processes and the various production pathways available A discussion of metabolic pathways has a dedicated chapter as do C2 C3 C8 and C4 sugar fermentation platforms A lifecycle assessment is also presented addressing the energy environmental social and economic factors in the sustainability of higher alcohol production Readers will find this to be a unique and comprehensive reference on the production of higher alcohols that will be of interest to students researchers and industry professionals involved in bioenergy and renewable energy and more Provides comprehensive coverage of the energy environmental and economic aspects of higher alcohols biofuels Presents a rational basis for assessing alcoholic products that can be used as a roadmap for their further developments Analyzes and synthesizes the

latest research and developments on the production of higher alcohols as biofuels for audiences in academia and industry

New and Future Developments in Microbial Biotechnology and Bioengineering H.B Singh, Vijai G. Gupta, Sudisha Jogaiah, 2018-10-19 New and Future Developments in Microbial Biotechnology and Bioengineering Microbial Genes Biochemistry and Applications consolidates the most widely used genetic methods available bringing together the fields of biochemistry biotechnology and microbiology The chapters outlined give clear and concise direction on both standard and applied microbial genetic improvements presenting undergraduates postgraduates and researchers with the latest developments in microbial gene technology In addition the book describes the background and usefulness of each experiment in question All chapters covered in the book are derived from current peer reviewed literature as accepted by the international scientific community Compiles the latest developments made in the area of microbial gene systems Includes exhaustive information on almost all areas of microbial gene technology Relates microbial engineering and its direct application to the production of many useful compounds Written by an international team of authors and compiled by award winning editors

Biotechnology Research Abstracts, 1984 Monthly Classified listing of references to worldwide articles dealing with all aspects of biotechnology Also includes books and conferences Each entry gives bibliographic information institutional address of author s and abstract Author and subject index

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

Anaerobic Phased Solids Digester (APS-digester) System for Biogasification of Agricultural and Food Wastes Zhiqin Zhang, 2000

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

Plant Products and the New Technology Phytochemical Society of Europe,1985 This volume focuses on short term ways to expand the current knowledge of plant biochemistry by using biotechnological techniques The contributors discuss forest products and particularly crop plants surveying the latest technical information Other papers consider such topics as the commercial significance of plants and the problems of patenting Bibliography of Agriculture ,1998 **Biofuels**

Engineering Process Technology, Second Edition Caye M. Drapcho, Nghiem Phu Nhuan, Terry H. Walker, 2020-07-21 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Fully updated processes for the production of renewable and environmentally safe biofuels This thoroughly revised guide presents a complete and up to date introduction to biofuels process technology Written by a team of industry leading experts Biofuels Engineering Process Technology Second Edition shows step by step how renewable feedstocks are processed and how biofuels are refined You will explore the entire spectrum of biofuel processes including the production of ethanol from sugarcane and corn biodiesel from animal fats and plant oils and methane by anaerobic digestion The book clearly explains newly developed technologies for the production of drop in biofuels and the use of microbial fuel cells to produce electricity Coverage includes An introduction to biofuel engineering processes Harvesting energy from biochemical reactions Microbial modeling of biofuel production Biofuels feedstocks Ethanol Biodiesel Drop in biofuels Biological production of hydrogen Microbial fuel cells Methane And more

Critical Reviews in Biotechnology ,1989 **II International Symposium on Anaerobic Digestion of Solid Waste (II ISAD-SW): Oral presentations** F. Cecchi, J. Mata-Alvarez, A. Tilche, 2000

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



















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