

Bioenergy Research: Advances and Applications

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Bioenergy Research Advances And Applications:

Bioenergy Research: Advances and Applications Vijai G. Gupta, Maria Tuohy, Christian P Kubicek, Jack Saddler, Feng Xu,2013-12-05 Bioenergy Research Advances and Applications brings biology and engineering together to address the challenges of future energy needs The book consolidates the most recent research on current technologies concepts and commercial developments in various types of widely used biofuels and integrated biorefineries across the disciplines of biochemistry biotechnology phytology and microbiology All the chapters in the book are derived from international scientific experts in their respective research areas They provide you with clear and concise information on both standard and more recent bioenergy production methods including hydrolysis and microbial fermentation Chapters are also designed to facilitate early stage researchers and enables you to easily grasp the concepts methodologies and application of bioenergy technologies Each chapter in the book describes the merits and drawbacks of each technology as well as its usefulness The book provides information on recent approaches to graduates post graduates researchers and practitioners studying and working in field of the bioenergy It is an invaluable information resource on biomass based biofuels for fundamental and applied research catering to researchers in the areas of bio hydrogen bioethanol bio methane and biorefineries and the use of microbial processes in the conversion of biomass into biofuels Reviews all existing and promising technologies for production of advanced biofuels in addition to bioenergy policies and research funding Cutting edge research concepts for biofuels production using biological and biochemical routes including microbial fuel cells Includes production methods and conversion processes for all types of biofuels including bioethanol and biohydrogen and outlines the pros and cons of each

Modern Industrial Microbiology and Biotechnology Nduka Okafor, Benedict C. Okeke, 2017-11-22 The field of industrial microbiology involves a thorough knowledge of the microbial physiology behind the processes in the large scale profit oriented production of microbe related goods which are the subject of the field In recent times a paradigm shift has occurred and a molecular understanding of the various processes by which plants animals and microorganisms are manipulated is now central to industrial microbiology Thus the various applications of industrial microbiology are covered broadly with emphasis on the physiological and genomic principles behind these applications Relevance of the new elements such as bioinformatics genomics proteomics site directed mutation and metabolic engineering which have necessitated the paradigm shift in industrial microbiology are discussed Anaerobic Co-Digestion of Lignocellulosic Waste Luis Isidoro Romero García, Carlos José Álvarez Gallego, Luis Alberto Fernández Güelfo, 2021-09-02 Some terms such as eco friendly circular economy and green technologies have remained in our vocabulary because the truth is that mankind is altering the planet to put its own subsistence at risk Besides for rationalization in the consumption of raw materials and energy the recycling of waste through efficient and sustainable processes forms the backbone of the paradigm of a sustainable industry One of the most relevant technologies for the new productive model is anaerobic digestion Historically anaerobic digestion has been

developed in the field of urban wastes and wastewater treatments but in the new challenge its role is more relevant Anaerobic digestion is a technologically mature biological treatment which joins bioenergy production with the efficient removal of contaminants This issue provides a specialized but broad in scope overview of the possibilities of the anaerobic digestion of lignocellulosic biomass mainly forestry and agricultural wastes which is expected to be a more promising substrate for the development of biorefineries Its conversion to bioenergy through anaerobic digestion must solve some troubles the complex lignocellulosic structure needs to be deconstructed by pretreatments and a co substrate may need to be added to improve the biological process Ten selected works advance this proposal into the future Science and Technology of Fruit Wine Production Maria R. Kosseva, V.K. Joshi, P.S. Panesar, 2016-11-01 Science and Technology of Fruit Wine Production includes introductory chapters on the production of wine from fruits other than grapes including their composition chemistry role quality of raw material medicinal values quality factors bioreactor technology production optimization standardization preservation and evaluation of different wines specialty wines and brandies Wine and its related products have been consumed since ancient times not only for stimulatory and healthful properties but also as an important adjunct to the human diet by increasing satisfaction and contributing to the relaxation necessary for proper digestion and absorption of food Most wines are produced from grapes throughout the world however fruits other than grapes including apple plum peach pear berries cherries currants apricot and many others can also be profitably utilized in the production of wines The major problems in wine production however arise from the difficulty in extracting the sugar from the pulp of some of the fruits or finding that the juices obtained lack in the requisite sugar contents have higher acidity more anthocyanins or have poor fermentability. The book demonstrates that the application of enzymes in juice extraction bioreactor technology and biological de acidification MLF bacteria or de acidifying yeast like schizosaccharomyces pombe and others in wine production from non grape fruits needs serious consideration Focuses on producing non grape wines highlighting their flavor taste and other quality attributes including their antioxidant properties Provides a single volume resource that consolidates the research findings and developed technology employed to make wines from non grape fruits Explores options for reducing post harvest losses which are especially high in developing countries Stimulates research and development efforts in non grape wines Sustainable Energy Investment Joseph Nyangon, John Byrne, 2021-03-10 This book examines the technical market and policy innovations for unlocking sustainable investment in the energy sector While finalizing this book the COVID 19 pandemic is cutting a devastating swath through the global economy causing the biggest fall in energy sector investment exacerbating the global trade finance gap worsening signs of growing income inequality and devastating the health and livelihoods of millions What is the parallel between the COVID 19 pandemic and the climate change crisis The impacts of the global pandemic are expected to last for a few years whereas those associated with the climate crisis will play out over several decades with potentially irreversible consequences However both show that the cost of inaction or delay in

addressing the risks can lead to devastating outcomes or a greater probability of irreversible catastrophic damages In the context of sustainable energy investment and the transition to a low carbon climate resilient economy what ways can financial markets and institutions support net zero emission activities and the shift to a sustainable economy including investment in energy efficiency low carbon and renewable energy technologies. This book provides students policymakers and energy investment professionals with the knowledge and theoretical tools necessary to address related questions in sustainable energy investment risk management and energy innovation agendas Food in a Planetary Emergency Dora Marinova, Diana Bogueva, 2022-05-03 This book Food in a Planetary Emergency is a timely overview of the current food systems and the required transformations to respond to the challenges of climate change population pressures biodiversity loss and use of natural resources such as soils water and phosphorus This book takes a planetary health perspective which explores the links between natural systems and human wellbeing implying that there is need for united actions to achieve important environmental and population health co benefits This book outlines that the foundation of planetary health is sustainability It addresses environment and climate change emergency as a global agenda however emphasises the urgency of the sustainability perspective which integrates a wide spectrum of issues that require integrated solutions to offer better prospects for humanity This book drives this argument further through the global Sustainable Development Goals SDGs where food is not just SDG2 but transcends all 17 goals This book tackles the problems of food production and consumption at a global industry and individual level linking it to topics related to the natural environment climate change waste marketing new ways of producing food and providing alternative proteins mitigating non communicable diseases flexitarianism and the role of Generation Z in the emerging dietary choices This book benefits readers with understanding the importance and intricacy of their dietary choices at a point in time when our planet is facing an emergency triggered by long term dependence on fossil fuels and artificial fertilisers but also by the ways we have provided food However this book also delivers the message that safeguarding and sustaining planetary health is possible Bioremediation using weeds Deepak Pant, Shashi Kant Bhatia, Anil K. Patel, Anand Giri, 2021-02-22 div style color rgb 0 0 0 font family Helvetica Arial sans serif font size 14px In this monograph the core elements of multidisciplinary bioremediation practices are addressed and environmental pollutants which can be effectively remediated using weeds is focused upon Weeds plants can easily grow in waste dumping sites with their rapidly colonizing ability The contents include recent results in bioremediation and focuses on the current trend of introduction of potentials of weeds in bioremediation practice This volume will be a useful guide for researchers academics and scientists div style Handbook of Sustainable Polymers for Additive Manufacturing Antonio Paesano, 2022-05-24 This book provides the latest technical information on sustainable materials that are feedstocks for additive manufacturing AM Topics covered include an up to date and extensive overview of raw materials their chemistry and functional properties of their commercial versions a description of the relevant AM processes products applications

advantages and limitations prices and market data and a forecast of sustainable materials used in AM their properties and applications in the near future Data included are relative to current commercial products and are presented in easy to read tables and charts Features Highlights up to date information and data of actual commercial materials Offers a broad survey of state of the art information Forecasts future materials applications and areas of R D Contains simple language explains technical terms and minimizes technical lingo Includes over 200 tables nearly 200 figures and more than 1 700 references to technical publications mostly very recent Handbook of Sustainable Polymers for Additive Manufacturing appeals to a diverse audience of students and academic technical and business professionals in the fields of materials science and mechanical chemical and manufacturing engineering Green Biorefinery Solutions Sanjiv K. Soni, Raman Soni, 2025-07-26 This book delves into the innovative concept of biorefineries as a sustainable approach for managing biodegradable waste and producing valuable resources It highlights the pressing need to address environmental challenges such as waste accumulation and resource depletion while meeting the increasing demand for renewable energy and bio based products The book introduces the concept of biorefineries which are analogous to conventional oil refineries but focus on converting biomass and biodegradable waste into a range of high value products These products include biofuels biochemicals bioplastics biofertilizers and other materials that can replace fossil derived equivalents The author explores various technological pathways and processes involved in efficiently transforming different types of biodegradable waste such as agricultural residues food waste and organic byproducts into usable resources Readers are guided through the principles of biorefinery design integration of various unit operations and the optimization of conversion processes to achieve maximum resource utilization and minimal environmental impact The book emphasizes the importance of circular economy concepts where waste is considered a valuable input rather than a burden It also discusses the economic social and environmental benefits of adopting biorefinery solutions in different sectors from agriculture to industry The book is a valuable resource for researchers policymakers industry professionals and students interested in exploring innovative approaches to waste management resource recovery and the transition towards a more sustainable and circular bioeconomy By highlighting the transformative potential of biorefineries the book contributes to the ongoing dialogue on creating a more environmentally conscious and resource efficient future Energy Footprints of the Bio-refinery, Hotel, and Building Sectors Subramanian Senthilkannan Muthu, 2018-08-29 This book deals with the energy footprints of biorefineries and the hotel and buildings sector It presents footprint case studies which include background information methodological frameworks assessment checklists calculation tools and techniques applications challenges and limitations It also discusses the application of each indicator framework in various industrial sectors and the associated challenges along with outlooks for the future Consumption and conservation of energy are key elements in any industry s sustainability strategy

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