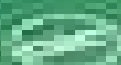


Biohydrogen Production

Fundamentals and Technology Advances



Debabrata Das
Namita Khanna
Chitralekha Nag, Pradyumn

 CRC Press
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Biohydrogen Production Fundamentals And Technology Advances

Imran Ahmad



Biohydrogen Production Fundamentals And Technology Advances:

Biohydrogen Production Debabrata Das, Namita Khanna, Chitralekha Nag Dasgupta, 2017-10-27 Biohydrogen Production Fundamentals and Technology Advances covers the fundamentals of biohydrogen production technology including microbiology biochemistry feedstock requirements and molecular biology of the biological hydrogen production processes It also gives insight into scale up problems and limitations In addition the book discusses mathematical modeling of the various processes involved in biohydrogen production and the software required to model the processes The book summarizes research advances that have been made in this field and discusses bottlenecks of the various processes which presently limit the commercialization of this technology The authors also focus on the process economy policy and environmental impact of this technology since the future of biohydrogen production depends not only on research advances but also on economic considerations the cost of fossil fuels social espousal and the development of H₂ energy systems The book describes the fundamentals of this technology interwoven with more advanced research findings Further reading is suggested at the end of each chapter Since the beauty of any innovation is its applicability socioeconomic impact and cost energy analysis the book examines each of these points to give you a holistic picture of this technology Illustrative diagrams flow charts and comprehensive tables detailing the scientific advancements provide an opportunity to understand the process comprehensively and meticulously Written in a lucid style the book supplies a complete knowledge bank about biohydrogen production processes

Biohydrogen Production from Organic Wastes Jianlong Wang, Yanan Yin, 2017-05-27 This book comprehensively introduces fundamentals and applications of fermentative hydrogen production from organic wastes consisting of eight chapters covering the microbiology biochemistry and enzymology of hydrogen production the enrichment of hydrogen producing microorganisms the pretreatment of various organic wastes for hydrogen production the influence of different physicochemical factors on hydrogen production the kinetic models and simulation of biological process of fermentative hydrogen production the optimization of biological hydrogen production process and the fermentative hydrogen production from sewage sludge The book summarizes the most recent advances that have been made in this field and discusses bottlenecks of further development This book gives a holistic picture of this technology and details the knowledge through illustrative diagrams flow charts and comprehensive tables It is intended for undergraduate and graduate students who are interested in bioenergy and wastes management researchers exploring microbial fermentation process and engineers working on system optimization or other bioenergy applications

Fundamentals of Biofuel Production Processes Debabrata Das, Jhansi L. Varanasi, 2019-04-16 Focusing on fundamentals of biofuel production from renewable energy sources and biohydrogen production this book offers a complete understanding of the bioconversion processes Each chapter begins with a fundamental explanation for general readers and ends with in depth scientific details suitable for expert readers It discusses different types of production technologies covering basic concepts production strategies commercial

usage and advances **Materials for Hydrogen Production, Conversion, and Storage** Inamuddin,Tariq Altalhi,Sayed Mohammed Adnan,Mohammed A. Amin,2023-02-09 MATERIALS FOR HYDROGEN PRODUCTION CONVERSION AND STORAGE Edited by one of the most well respected and prolific engineers in the world and his team this book provides a comprehensive overview of hydrogen production conversion and storage offering the scientific literature a comprehensive coverage of this important fuel Continually growing environmental concerns are driving every or almost every country on the planet towards cleaner and greener energy production This ultimately leaves no option other than using hydrogen as a fuel that has almost no adverse environmental impact But hydrogen poses several hazards in terms of human safety as its mixture of air is prone to potential detonations and fires In addition the permeability of cryogenic storage can induce frostbite as it leaks through metal pipes In short there are many challenges at every step to strive for emission free fuel In addition to these challenges there are many emerging technologies in this area For example as the density of hydrogen is very low efficient methods are being developed and engineered to store it in small volumes This groundbreaking new volume describes the production of hydrogen from various sources along with the protagonist materials involved Further the extensive and novel materials involved in conversion technologies are discussed Also covered here are the details of the storage materials of hydrogen for both physical and chemical systems Both renewal and non renewal sources are examined as feedstocks for the production of hydrogen The non renewal feedstocks mainly petroleum are the major contributor to date but there is a future perspective in a renewal source comprising mainly of water splitting via electrolysis radiolysis thermolysis photocatalytic water splitting and biohydrogen routes Whether for the student veteran engineer new hire or other industry professionals this is a must have for any library **Lignocellulosic Biorefining Technologies** Avinash P. Ingle,Anuj Kumar

Chandel,Silvio Silverio da Silva,2020-01-08 A text to the advances and development of novel technologies in the production of high value products from economically viable raw materials Lignocellulosic Biorefining Technologies is an essential guide to the most recent advances and developments of novel technologies in the production of various high value products from economically viable raw materials Written by a team of experts on the topic the book covers important topics specifically on production of economical and sustainable products such as various biofuels organic acids enzymes biopigments biosurfactants etc The book highlights the important aspects of lignocellulosic biorefining including structure function and chemical composition of the plant cell wall and reviews the details about the various components present in the lignocellulosic biomass and their characterizations The authors explore the various approaches available for processing lignocellulosic biomass into second generation sugars and focus on the possibilities of utilization of lignocellulosic feedstocks for the production of biofuels and biochemicals Each chapter includes a range of clear informative tables and figures and contains relevant references of published articles This important text Provides cutting edge information on the recent developments in lignocellulose biorefinery Reviews production of various economically important and sustainable products

such as biofuels organic acids biopigments and biosurfactants Highlights several broad ranging areas of recent advances in the utilization of a variety of lignocellulosic feedstocks Provides a valuable authoritative reference for anyone interested in the topic Written for post graduate students and researchers in disciplines such as biotechnology bioengineering forestry agriculture and chemical industry Lignocellulosic Biorefining Technologies is an authoritative and updated guide to the knowledge about various biorefining technologies

Biofuels Production and Processing Technology M.R. Riazi, David Chiaramonti, 2017-10-10 The importance of biofuels in greening the transport sector in the future is unquestionable given the limited available fossil energy resources the environmental issues associated to the utilization of fossil fuels and the increasing attention to security of supply This comprehensive reference presents the latest technology in all aspects of biofuels production processing properties raw materials and related economic and environmental aspects Presenting the application of methods and technology with minimum math and theory it compiles a wide range of topics not usually covered in one single book It discusses development of new catalysts reactors controllers simulators online analyzers and waste minimization as well as design and operational aspects of processing units and financial and economic aspects The book rounds out by describing properties specifications and quality of various biofuel products and new advances and trends towards future technology

Emerging Biofuels Sonil Nanda, Vaibhav Vasant Goud, Ajay K. Dalai, 2024-03-15 Emerging Biofuels Stationary and Mobile Applications presents a comprehensive assessment of supply chains and conversion pathways of the promising biofuels in the 21st century Highlighting the potential of emerging biofuels the book covers the latest breakthroughs and process intensification strategies for the development of near to mid term commercialization Chapters provide readers with an overview of emerging biofuels key advantages and major drivers for the biofuel industry The majority of the book is dedicated to assessing each emerging biofuel including renewable diesel bio CNG 3rd generation lignocellulosic ethanol fisher tropsch biofuels biohydrogen microalgal biodiesel bio jet fuel hythane methanol and bio oil dimethyl ether and more The final chapters of the book examine techno economic viability sustainability and the lifecycle of selected biofuel through detailed case studies while also analyzing international policy frameworks for biofuels This book is a valuable reference for students researchers and industry engineers involved in biofuels production but will also be of interest to multidisciplinary teams working across Renewable Energy Chemical Engineering Environmental Science and Sustainability Science Brings together the fundamentals and latest developments on emerging biofuels Provides a comparative assessment of biofuels and alternative conversion pathways Offers a holistic assessment of biomass supply chains for guided sustainability analysis and informed decision making

Nanobiotechnology for Sustainable Bioenergy and Biofuel Production Madan L. Verma, 2020-09-01 Nanobiotechnology for Sustainable Bioenergy and Biofuel Production provides insights into the most recent innovations trends concerns and challenges in the production of biofuels This book highlights a number of key research topics and practical applications of modern nanomaterials and nanocomposite

driven enzyme biotechnology for biofuels production including the advances in the nanoscaffolds design nanomaterials support for immobilizing bioenergy producing enzymes nanobiocatalyst system the recent trends in biomass processing untreated treated agriculture and food waste grasses algal etc using advanced nanobiocatalysts for biofuels production and the scale up study of bioenergy production using nanomaterials immobilized enzymes and biofuel harvesting using nanomaterials At the outset of new nanobiotechnology applications in biofuel production there is a need for a new resource in the bioenergy field This book delivers an overview of the contributions of biofuel production and the most up to date advances in nanobiotechnology to a diverse audience ranging from post graduate students to researchers in biochemical engineering biotechnology bioremediation and environmental studies and pharmaceutical professionals Key Features Outlines the most recent nanobiotechnological advances in biofuels and bioenergy for biofuels productions Covers biodiesel bioethanol biomethane biohydrogen biorefineries and biofuel harvesting using nanomaterials Explains the scale up nanobiotechnological study of biofuel production at the bioreactor level

Green Technologies for Wastewater Treatment and Bioenergy Production Imran Ahmad, 2025-03-28 Currently most of the physical and chemical technologies generally employed for the treatment of wastewater are costly and inefficient Researchers have been working to find green technologies for the sustainable and economically viable treatment methods for wastewater and Green Technologies for Wastewater Treatment and Bioenergy Production focuses on these latest advancements These include bioremediation bioaugmentation wetlands and algal treatment technologies which are considered to contribute toward a circular bioeconomy and to be crucial in attaining various sustainable development goals Examines the production of biofuels and other forms of bioenergy derived from wastewater Explains how these emerging green technologies contribute toward a circular bioeconomy and aid in achieving various sustainable development goals

Agricultural Biomass Nanocatalysts for Green Energy Applications Manish Srivastava, Ashutosh Kumar Rai, 2024-04-29 The book discusses the various sustainable approaches to combine agrowaste and nanomaterials into catalysts or nanocatalysts with the objective of enhancing biofuel production It explores the practical sustainability of agronanocatalysts in bioenergy production at a mass scale while also addressing the existing challenges and proposes sustainable remedies to overcome these limitations Additionally the book dives into the cost considerations recognizing it as a major concern for the widespread utility of catalysts and explores viable commercial applications in this context Nanomaterials continue to attract attention in the field of proteins and enzymes due to their versatile physicochemical properties and potential They offer opportunities to enhance various biofuel production processes by serving as catalysts in the reaction medium For instance studies have highlighted the significant improvements in cellulase enzyme production stability pretreatment of lignocellulosic biomass and enzymatic hydrolysis efficiency achieved through the utilization of nanomaterials The impact of nanomaterials on fermentative hydrogen production has also been documented While the application of nanomaterials in biofuel production processes has

been reported in the literature there remains a need to focus on the type of nanomaterials their synthesis and their specific effects on important process parameters Addressing and evaluating these factors is crucial to effectively improve and streamline biofuel production processes using nanomaterials The book serves as a comprehensive introduction to nanomaterials and nanotechnology in biofuel production catering to the needs of researchers academicians and students

The book delves into Biohydrogen Production Fundamentals And Technology Advances. Biohydrogen Production Fundamentals And Technology Advances is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Biohydrogen Production Fundamentals And Technology Advances, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Biohydrogen Production Fundamentals And Technology Advances
 - Chapter 2: Essential Elements of Biohydrogen Production Fundamentals And Technology Advances
 - Chapter 3: Biohydrogen Production Fundamentals And Technology Advances in Everyday Life
 - Chapter 4: Biohydrogen Production Fundamentals And Technology Advances in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Biohydrogen Production Fundamentals And Technology Advances. This chapter will explore what Biohydrogen Production Fundamentals And Technology Advances is, why Biohydrogen Production Fundamentals And Technology Advances is vital, and how to effectively learn about Biohydrogen Production Fundamentals And Technology Advances.
3. In chapter 2, the author will delve into the foundational concepts of Biohydrogen Production Fundamentals And Technology Advances. This chapter will elucidate the essential principles that must be understood to grasp Biohydrogen Production Fundamentals And Technology Advances in its entirety.
4. In chapter 3, this book will examine the practical applications of Biohydrogen Production Fundamentals And Technology Advances in daily life. The third chapter will showcase real-world examples of how Biohydrogen Production Fundamentals And Technology Advances can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Biohydrogen Production Fundamentals And Technology Advances in specific contexts. The fourth chapter will explore how Biohydrogen Production Fundamentals And Technology Advances is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Biohydrogen Production Fundamentals And Technology Advances. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Biohydrogen Production Fundamentals And Technology Advances.

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