

BIOHYDROGEN PRODUCTION



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Biohydrogen Chapter 7 Photofermentative Biohydrogen Production

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Ximenes, Cristiane Sanchez Farinas**

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Biohydrogen Patrick C. Hallenbeck, 2013-06-11 There are many biological paths to hydrogen production each with potential advantages but also with its own challenges to implementation Nonsulfur photosynthetic bacteria are able to capture solar energy and use it to drive the nearly complete conversion of substrate to hydrogen and carbon dioxide in a process called photofermentation These organisms which have the potential capacity to use a variety of feedstocks are well known for their light driven conversion of organic acids to hydrogen and carbon dioxide Thus they are ideal candidates for two stage or coculture systems that derive additional hydrogen from the effluents of dark fermentations In addition various industrial and agricultural waste streams rich in organic acids can potentially serve as substrates for photofermentation The metabolic and enzymatic properties underlying photofermentation as well as possible waste streams that may be used successfully are reviewed Recent progress including the use of immobilized systems and metabolic engineering is highlighted

Biohydrogen Ashok Pandey, Jo-Shu Chang, Patrick C. Hallenbeck, Christian Larroche, 2013-06-11 This book provides in depth information on basic and applied aspects of biohydrogen production It begins with an introduction to the topic and follows with the basic scientific aspects of biohydrogen production such as the enzyme involved in biohydrogen production the microorganisms and metabolic engineering information It then provides state of art information on various aspects of biohydrogen production methods such as from solid wastes from industrial effluents thermo chemical route for biohydrogen production etc It also includes information on engineering aspects such as the design of bioreactors for biohydrogen production and scale up issues Finally it touches on the issues of hydrogen economy and commercialization The book introduces you to all aspects of biohydrogen research helping you understand the various issues involved and plan your own research based on recent findings and commercial needs Provides information on the most advanced and innovative biohydrogen technologies including fermentation and metabolic processes Provides examples on large scale and commercial applications of biohydrogen processes and explains the steps necessary for scaling up Explains the chemistry theory of the processes involved and provides information on integration of the various processes and technologies on biohydrogen Guides through the process design reactors and materials selection Devotes a whole chapter on the economical aspects of the processes and their commercialization

Biohydrogen - Advances and Processes Carlos Ricardo Soccol, Satinder Kaur Brar, Kugenthiren Permaul, Kannan Pakshirajan, Júlio Cesar de Carvalho, 2024-04-09 This book presents an introduction to biohydrogen production and the recent advances and developments of the cleanest biofuel produced from bioresources Biohydrogen has the highest energy content relative to weight and burns cleanly generating just water It is the best choice for fuel cells where it generates electricity directly in its reaction with oxygen Biohydrogen occurs naturally as part of digestive gases from mammals and can be produced in specially designed anaerobic biodigesters or through photocatalysis with microalgae The gas is also easy to purify and use The economic production of biohydrogen is still full of challenges From

the efficient and rapid conversion of the substrate to storage transportation and safe use there are several aspects that need to be developed Research in this field is addressing the issue of efficient large scale production from several directions Substrate pretreatment to enhance digestibility metabolic networks analysis microbial diversity and succession to highlight constraints in production bioreactor and downstream design to improve throughput and reduce costs to name a few The ideas and technologies presented in this book contribute to achieving the UN Sustainable Development Goal 7 Affordable and Clean Energy The book is written for researchers and students interested in biorefinery and biofuel technologies

Handbook of Biofuels Production Rafael Luque,Carol Sze Ki Lin,Karen Wilson,James Clark,2016-05-19 Handbook of Biofuels Production Second Edition discusses advanced chemical biochemical and thermochemical biofuels production routes that are fast being developed to address the global increase in energy usage Research and development in this field is aimed at improving the quality and environmental impact of biofuels production as well as the overall efficiency and output of biofuels production plants The book provides a comprehensive and systematic reference on the range of biomass conversion processes and technology Key changes for this second edition include increased coverage of emerging feedstocks including microalgae more emphasis on by product valorization for biofuels production additional chapters on emerging biofuel production methods and discussion of the emissions associated with biofuel use in engines The editorial team is strengthened by the addition of two extra members and a number of new contributors have been invited to work with authors from the first edition to revise existing chapters thus offering fresh perspectives Provides systematic and detailed coverage of the processes and technologies being used for biofuel production Discusses advanced chemical biochemical and thermochemical biofuels production routes that are fast being developed to address the global increase in energy usage Reviews the production of both first and second generation biofuels Addresses integrated biofuel production in biorefineries and the use of waste materials as feedstocks *Biohydrogen* S. Venkata Mohan,K. Chandrasekhar,P. Chiranjeevi,P. Suresh

Babu,2013-06-11 Biohydrogen H₂ production from renewable wastewater signifies a sustainable alternative to a fossil fuel based economy H₂ is deemed to be the futuristic energy carrier with a high energy yield This chapter specifically addresses H₂ production through wastewater remediation A comprehensive emphasis is made on the fermentative routes namely light driven and light independent processes encompassing wastewater and mixed culture application as a focal point Important process parameters that have critical roles on process efficiency are elaborated Some of the persistent limitations encountered during the process operation are delineated Stress is made on the pertinent discussion on biocatalyst pretreatment methods in the context of mixed culture wastewater usage Reported strategies to overcome the limitations are discussed to make the process economically viable especially for large scale applications *Biohydrogen Production*

Prakash Kumar Sarangi,Krushna Prasad Shadangi,Pravakar Mohanty,Sanjukta Subudhi,2025-11-11 Worldwide concern for clean energy environmental protection and global warming has given rise to the rapid search for alternative energy sources

Hydrogen as an alternative energy for the future is considered in high regard due to its efficiency as well as its sustainability. This new book presents up to date information on solutions for the production of biohydrogen from renewable sources for clean fuel waste management waste valorization reduced greenhouse gas emissions and climate change mitigation. It provides an overview of the prospects and challenges faced in biohydrogen production while also considering environmental issues and economic aspects.

Biohydrogen G. Balachandar, Namita Khanna, Debabrata Das, 2013-06-11 Hydrogen can be produced sustainably by dark anaerobic bacterial growth on carbohydrate rich substrates. This chapter discusses microbiology, biochemistry, molecular biology and the various other aspects related to dark hydrogen production. Pure cultures known to produce hydrogen from carbohydrates include species of *Enterobacter* and *Clostridium*. However, for efficient degradation of complex substrates, mixed cultures easily obtainable from natural sources and able to proliferate on nonsterile feedstock are required. Compared to pure substrates, complex substrates, especially different kinds of waste, may offer a sustainable and economical alternative for hydrogen production. However, for maximization of hydrogen production, different physicochemical processes need to be determined. In this regard, the various parameters affecting the dark hydrogen production process, which include pH, temperature, hydraulic retention time and hydrogen partial pressure, have been discussed in detail. In addition, this chapter discusses the different types of reactors and their suitability to carry out studies on dark fermentative hydrogen production. Overall, the chapter presents a holistic understanding of the dark hydrogen production process and highlights the recent new findings and achievements in the field.

Biohydrogen Production Debabrata Das, Namita Khanna, Chitralkha Nag Dasgupta, 2014-02-21 This book compiles the fundamentals of biohydrogen production technology. It offers comprehensive coverage of 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 processes involved in biohydrogen production and the software required to model the processes. It also summarizes research advances, discusses bottlenecks of the various processes and covers the process economy, policy and environmental impact of this technology.

Recent Advances in Bioconversion of Lignocellulose to Biofuels and Value Added Chemicals within the Biorefinery Concept Edivaldo Ximenes Ferreira Filho, Leonora Rios de Souza Moreira, Eduardo de Aquino Ximenes, Cristiane Sanchez Farinas, 2020-05-07 Recent Advances in Bioconversion of Lignocellulose to Biofuels and Value Added Chemicals within the Biorefinery Concept covers the latest developments on biorefineries along with their potential use for the transformation of residues into a broad range of more valuable products. Within this context, the book discusses the enzymatic conversion process of lignocellulosic biomass to generate fuels and other products in a unified approach. It focuses on new approaches to increase enzymatic production by microorganisms, the action of microbial inhibitors and strategies for their removal. Furthermore, it outlines the benefits of this integrated approach for generating value added products and the benefits to social and economic aspects, circular bio economy, HUBs and

perspectives Covers the mechanisms of enzymatic conversion of biomass into value added products Discusses bioproducts derived from lignocellulose and their applications Includes discussions on design development and the technologies needed for the sustainable manufacture of materials and chemicals Offers a techno economic evaluation of biorefineries for integrated sustainability assessments Discusses the socioeconomic and cultural economic perspectives of the lignocellulosic biorefinery Presents a virtual biorefinery as an integrated approach to evaluate the lignocellulose production chain

Biomass, Biofuels, Biochemicals Ashok Pandey, S. Venkata Mohan, Jo-Shu Chang, Patrick C. Hallenbeck, Christian Larroche, 2019-01-12 Biomass Biofuels and Biochemical Biohydrogen Second Edition provides general information basic data and knowledge on one of the most promising renewable energy sources including its production and applications The book describes a green technology for abating environmental crisis and enabling the transformation into a sustainable future Researchers students and science enthusiasts alike will appreciate this holistic view of biohydrogen production which details the functional mechanisms employed operational configurations influencing factors and integration strategies With 50% more content this new edition outlines the scaling of processes and features material from experienced international researchers working at the interface of biotechnology and engineering Hydrogen is an energy carrier and is available in chemically combined forms in water fossil fuels and biomass About 95 % of current hydrogen requirements are produced through fossil fuel sources Being a clean energy source its future widespread use as a fuel is likely to be in the transportation and distributed power generation sectors Depicts a holistic view of biohydrogen in a unified approach making it a single point of reference Includes new technologies and perspectives giving up to date state of the art information on research and commercialization Provides strategic integrations of acidogenesis with various bioprocesses essential in establishing a circular biorefinery Includes new research findings since the 1st edition appeared with 50% more content Integrates various subjects including biotechnology bioengineering molecular biology environmental science etc Reviews the various topics from a global perspective and an international list of contributors

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