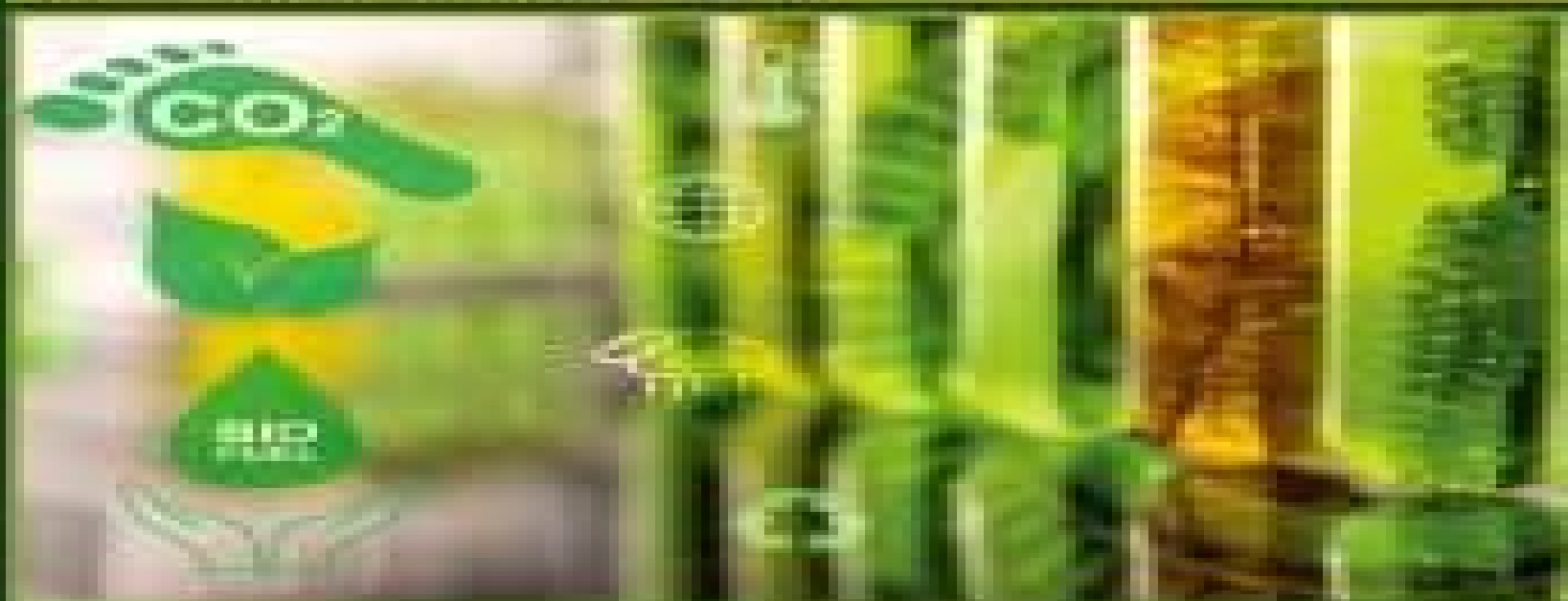


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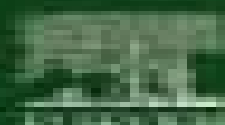


MICROALGAL BIOFUELS

SUSTAINABLE PRODUCTION AND CONVERSION

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Biofuels From Algae Chapter 13 Life Cycle Assessment Of Microalgal Based Biofuels

**David Ulises Santos Ballardó, Sergio
Rossi**



Biofuels From Algae Chapter 13 Life Cycle Assessment Of Microalgal Based Biofuels:

Biofuels from Algae Pierre Collet, Daniele Spinelli, Laurent Lardon, Arnaud Hélias, Jean-Philippe Steyer, Olivier Bernard, 2013-08-08 Fossil fuel depletion and attempts at global warming mitigation have motivated the development of biofuels. Several feedstock and transformation pathways into biofuel have been proposed as an alternative to the usual fuels. Recently microalgae have attracted a good deal of attention because of the promise of reduced competition with food crops and lowered environmental impacts. Over the last years several life cycle assessments (LCAs) have been realized to evaluate the energy benefit and potential global warming reduction of biofuel and bioenergy produced from microalgae. This chapter presents a bibliographic review of 15 LCAs of microalgae production and/or transformation into biofuel. These studies often differ by the perimeter of the study, the functional unit and the production technologies or characteristics. Methods for environmental impact assessment and the energy balance computation also diverge. This review aims to identify the main options and variations among LCAs and concludes with some recommendations and guidelines to improve the contribution of an LCA and to facilitate comparisons among studies.

Biofuels from Algae Ashok Pandey, Duu-Jong Lee, Yusuf Chisti, Carlos R. Soccol, 2013-08-08 This book provides in depth information on basic and applied aspects of biofuels production from algae. It begins with an introduction to the topic and follows with the basic scientific aspects of algal cultivation and its use for biofuels production such as photo bioreactor engineering for microalgae production, open culture systems for biomass production and the economics of biomass production. It provides state of the art information on synthetic biology approaches for algae suitable for biofuels production followed by algal biomass harvesting, algal oils as fuels, biohydrogen production from algae, formation of co-products and more. The book also covers topics such as metabolic engineering and molecular biology for algae for fuel production, life cycle assessment and scale up and commercialization. It is highly useful and helps you to plan new research and design new economically viable processes for the production of clean fuels from algae. Covers in a comprehensive but concise way most of the algae biomass conversion technologies currently available. Lists all the products produced from algae i.e. biohydrogen, fuel oils etc. their properties and potential uses. Includes the economics of the various processes and the necessary steps for scaling them up.

Microalgae as Promising Source of Commercial Bioproducts David Ulises Santos Ballardo, Sergio Rossi, 2025-06-06 This book contains a wide compendium of information which includes algal culture basics and the newest scientific and industrial advances in microalgal applications including traditional uses such as renewable energy, biofuels, wastewater treatment, edible products, aquaculture and livestock production. It also presents emerging perspectives of microalgae valorization for example health/cosmetic products, biofertilizers, bioplastics, vaccine delivery systems, nanotechnology and enzymes/bio-factories. Moreover, this book provides a comprehensive overview for those readers that are initiating the study about microalgae potential as a renewable source of valuable commercial products and highlights the state of the art on the innovative advances for scientific researchers.

students and microalgae commercial producers which already focused in developing microalgae biotechnology for bioenergy food and other applications Also the role of microalgae technology in the blue economy is analyzed an aspect with high relevance in the present and the future time but which is regularly understudied

Recent Developments in Energy and Environmental Engineering Rafid Al Khaddar,S. K. Singh,N. D. Kaushika,R. K. Tomar,S. K. Jain,2023-06-19 This book comprises select proceedings of the International Conference on Trends and Recent Advances in Civil Engineering TRACE 2022 It discusses the latest topics related to energy and environmental engineering The topics covered include green and clean technologies zero energy buildings solar energy energy conservation and heat recovery solar architecture artificial intelligence for sustainable buildings climate change and plastic and air pollution This book is useful for researchers and professionals working in the area of civil engineering and energy and environmental engineering

Algae for Biofuels and Energy Michael A. Borowitzka,Navid R. Moheimani,2012-12-11 Microalgae are one of the most studied potential sources of biofuels and bioenergy This book covers the key steps in the production of renewable biofuels from microalgae strain selection culture systems inorganic carbon utilisation lipid metabolism and quality hydrogen production genetic engineering biomass harvesting extraction Greenhouse gas and techno economic modelling are reviewed as is the 100 year history of microalgae as sources of biofuels and of commercial scale microalgae culture A summary of relevant basic standard methods used in the study of microalgae culture is provided The book is intended for the expert and those starting work in the field

Biomass, Biofuels, Biochemicals Ashok Pandey,Duu Jong Lee,Jo-Shu Chang,Yusuf Chisti,Carlos Ricardo Soccol,2018-11-14 Biomass Biofuels and Biochemicals Biofuels from Algae Second Edition provides information on strategies for commercial microalgae based biofuel production including their cultivation pre treatment and conversion methods The book discusses methods for producing microalgal biomass in large scale by outdoor culturing and outlines new technologies for their use In addition it explains how modern genetic engineering enables the generation of recombinant strains that generate higher quantities of feedstock The complete utilization of microalgal biomass which can also be obtained from valorizing nutrients from wastewater and industrial exhaust gases can be efficiently converted to energy rich biofuels and high value pharmaceuticals in a well defined biorefinery Includes the current technologies for the cultivation and conversion of energy rich microalgal biomass into biofuels Provides information on all the conversion methods biochemical and thermochemical conversions Covers other high value products from microalgae and less conventional applications such as fine chemical production and aviation fuel generation Discusses the economics of microalgal biofuel production and how to accomplish cost competitive results

The Carbon Dioxide Revolution Michele Aresta,Angela Dibenedetto,2021-01-04 This book focuses on carbon dioxide and its global role in our everyday life Starting with society s dependency on energy it demonstrates the various sources of carbon dioxide and discusses the putative effects of its accumulation in the atmosphere and its impact on the climate It then provides an overview of how we can reduce carbon dioxide production and reviews

innovative technologies and alternative energy resources The book closes with a perspective on how carbon dioxide can be utilized reasonably and how mimicking nature can provide us with a solution Using simple language this book discusses one of today's biggest challenges for the future of our planet in a way that is understandable for the general public The authors also provide deep insights into specific issues making the book a useful resource for researchers and students *Handbook of Algal Biofuels* Mostafa El-Sheekh, Abd El-Fatah Abomohra, 2021-12-02 Handbook of Algal Biofuels Aspects of Cultivation Conversion and Biorefinery comprehensively covers the cultivation harvesting conversion and utilization of microalgae and seaweeds for different kinds of biofuels The book addresses four main topics in the algal biofuel value chain First it explores algal diversity and composition covering micro and macroalgal diversity classification and composition their cultivation biotechnological applications current use within industry for biofuels and value added products and their application in CO₂ sequestration wastewater treatment and water desalination Next the book addresses algal biofuel production presenting detailed guidelines and protocols for different production routes of biodiesel biogas bioethanol biobutanol biohydrogen jet fuel and thermochemical conversion methods Then the authors discuss integrated approaches for enhanced biofuel production This includes updates on the recent advances breakthroughs and challenges of algal biomass utilization as a feedstock for alternative biofuels process intensification techniques life cycle analysis and integrated approaches such as wastewater treatment with CO₂ sequestration using cost effective and eco friendly techniques In addition different routes for waste recycling for enhanced biofuel production are discussed alongside economic analyses Finally this book presents case studies for algal biomass and biofuel production including BIQ algae house Renewable Energy Laboratory project Aquatic Species Program and the current status of algal industry for biofuel production Handbook of Algal Biofuels offers an all in one resource for researchers graduate students and industry professionals working in the areas of biofuels and phycology and will be of interest to engineers working in renewable energy bioenergy alternative fuels biotechnology and chemical engineering Furthermore this book includes structured foundational content on algae and algal biofuels for undergraduate and graduate students working in biology and life sciences Provides complete coverage of the biofuel production process from cultivation to biorefinery Includes a detailed discussion of process intensification lifecycle analysis and biofuel byproducts Describes key aspects of algal diversity and composition including their cultivation harvesting and advantages over conventional biomass Microalgal Biofuels Krishna Kumar Jaiswal, Bhaskar Singh, Amit K. Jaiswal, 2025-01-29 Microalgal Biofuels Sustainable Production and Conversion is a comprehensive guide to the latest advancements in microalgal biofuels The book provides systematic coverage of the processes of biofuel production from microalgae biomass resources to biomass conversion processes and catalytic materials It delves into the critical topic of sustainability addressing LCA approaches to evaluate the environmental impacts of microalgal based biofuels It provides practical information and guidance on the latest strategies opportunities and challenges in the transition to sustainable bioenergy This is an invaluable

reference for students researchers and industrial practitioners working on biofuels biotechnology bioprocess engineering and biomass conversion Divided into four sections the first section introduces the principles of microalgal biology and cultivation including an overview of the different types of microalgae their growth requirements and the cultivation systems used for large scale production The second section explains the conversion of microalgal biomass into biofuels including biodiesel bioethanol biogas and hydrogen Each chapter in this section covers a different biofuel pathway highlighting the technological advancements challenges and opportunities for scaling up production The third section of the book explores the sustainability aspects of microalgal biofuel production including the use of waste streams and the integration of biofuel production with other industries This section also covers the LCA approaches used to evaluate the environmental impacts of microalgal biofuels and the strategies for enhancing their sustainability The fourth and final section of the book examines the commercialization and prospects of microalgal biofuels This section covers the market potential of microalgal biofuels the regulatory landscape and the challenges and opportunities for the industry Presents the latest advancements in microalgal based biofuel production and sustainability Offers comprehensive coverage of microalgal biomass resources conversion processes and catalytic materials Provides sustainability and environmental impacts using lifecycle assessment LCA approaches Includes a detailed analysis of the commercialization and prospects of microalgal biofuels

Micro-algae: Next-generation Feedstock for Biorefineries Pradeep Verma, 2022-07-26 The edited book covers all potential products from microalgal based biorefinery having the focus on contemporary technologies and future outlook Along with the focus on microalgal biorefinery products the book also focuses on biotechnological advances via the utilization of modern molecular biology system biology synthetic biology or metabolic engineering approach in microalgal biorefinery The development of any technologies has a direct effect on the human being and the environment therefore the socio economic techno economic and environmental impact of the microalgae based biorefineries will also be included in the book In microalgal biomass based biorefinery different biofuel biodiesel bioethanol bio hydrogen and value added compounds such as carotenoids fatty acids and protein can be produced simultaneously Understanding the technical advances to develop an integrated biorefinery approach with the motive of designing a consolidated self sustainable microalga based biorefinery This book is equally beneficial for researchers and engineers in biomass based biorefineries or the bachelors master or young budding graduate students as a textbook

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