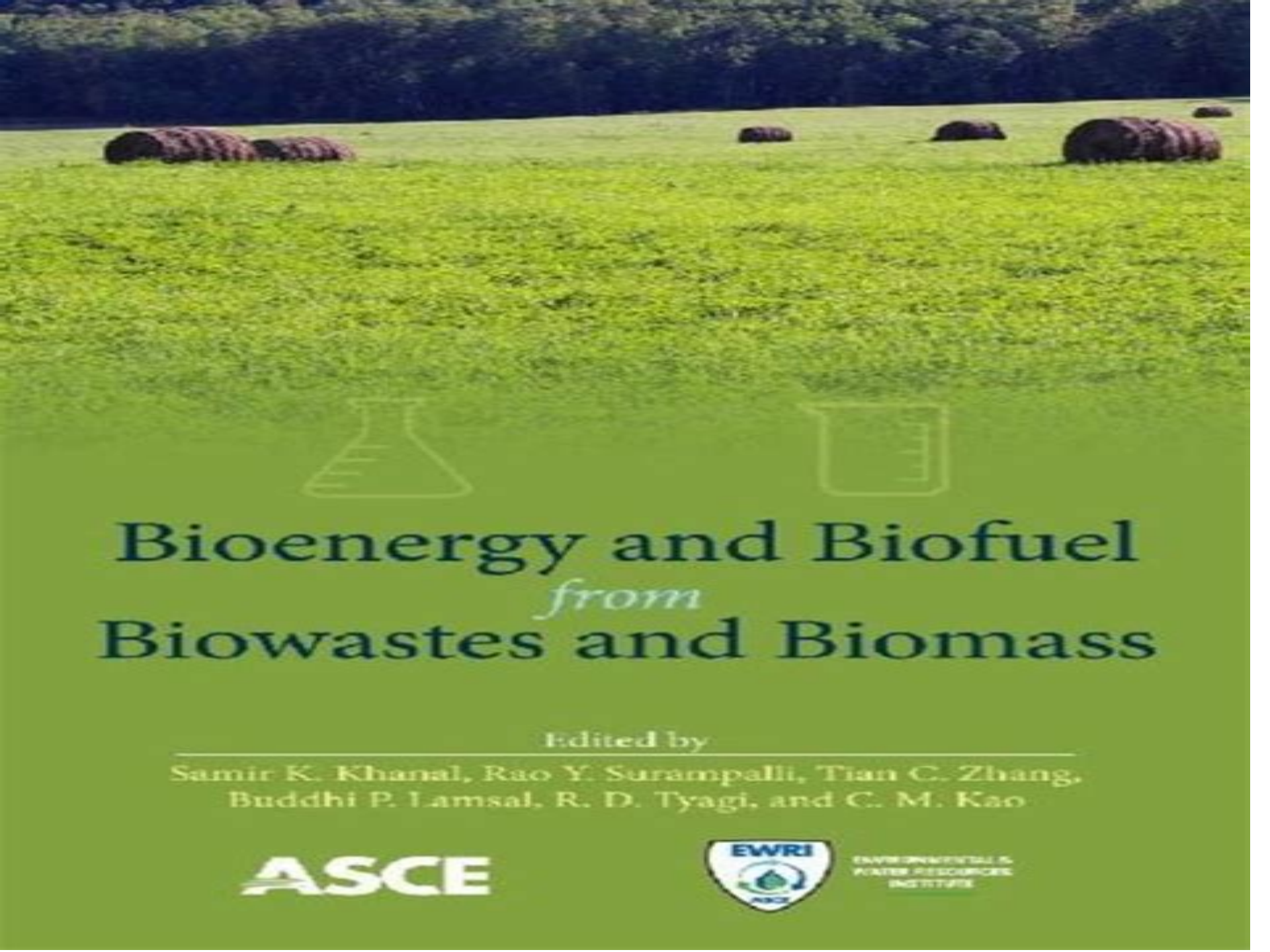




Bioenergy and Biofuel *from* Biowastes and Biomass

Edited by

Samir K. Khanal, Rao Y. Surampalli, Tian C. Zhang,
Buddhi P. Lamsal, R. D. Tyagi, and C. M. Kao

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Bioenergy And Biofuel From Biowastes And Biomass

Ensheng Dong



Bioenergy And Biofuel From Biowastes And Biomass:

Bioenergy and Biofuel from Biowastes and Biomass Samir Kumar Khanal, 2010 Biofuel and bioenergy produced from biowastes and biomass is a clean energy source which can be produced renewably The 21 chapters of this book provide state of the art reviews current research and technology developments with respect to 1st 2nd and 3rd generation biofuels and bioenergy The book focuses on the biological biochemical pathway as this option has been reported to be the most cost effective method for biofuel bioenergy production The opening chapter covers the overview of the current status of biofuel and bioenergy production The rest of the chapters are grouped into seven categories they cover biomethane production microbial fuel cells feedstock production preprocessing biomass pretreatment enzyme hydrolysis and syngas fermentation Algal processes for biofuel production biobutanol production bioreactor systems and value added processing of biofuel residues are included This book addresses life cycle analyses LCA of 1st and 2nd generation biofuels from corn soybean jatropha and cellulosic biomass and the emerging applications of nanotechnology in biofuel bioenergy production The book is organized in such a way that each preceding chapter builds a foundation for the following one At the end of each chapter current research trends and further research needs are outlined This is one of the first books in this emerging field of biofuel bioenergy that provides in depth technical information on the broad topics of biofuel and bioenergy with extensive illustrations case studies summary tables and up to date references This book will be valuable to researchers instructors senior undergraduate and graduate students decision makers professionals and others interested in the field of biofuel bioenergy

Biomass, Biofuels, Biochemicals Ganti S. Murthy, Edgard Gnansounou, Samir Kumar Khanal, Ashok Pandey, 2021-09-17 Systems analysis for sustainability is an emerging discipline where technologies processes or policies are evaluated comprehensively for sustainability Trifold sustainability metrics such as technical feasibility economic viability and environmental impacts are commonly used to assess sustainability In addition to these metrics it is important to consider resource sustainability policies and social aspects for evaluating the sustainability of any proposed alternative Green Economy Systems Analysis for Sustainability provides a theoretical background to perform such analyses and detailed case studies The first part of this book introduces methods and tools to perform technical feasibility analysis economic viability analysis environmental impacts assessment environmental risk assessment resource sustainability assessment policy and social aspects of technologies general logic based sustainability assessment for green products and introduces resilience thinking The second part of the book focuses on case studies with an emphasis on solar energy biofuels and bioproducts from across the globe Covers sustainability analysis for bioeconomy Provides theoretical background for conducting sustainability analysis Includes case studies from around the world that use these methods Examines techno economic analysis life cycle assessment resource assessment environmental risk analysis policy and social aspects of technologies *Biomass, Biofuels, Biochemicals* Ashok Pandey, Christian Larroche, Edgard Gnansounou, Samir Kumar Khanal, Claude-Gilles Dussap, Steven

Ricke,2019-06-06 Biomass Biofuels Biochemicals Biofuels Alternative Feedstocks and Conversion Processes for the Production of Liquid and Gaseous Biofuels Second Edition provides general information basic data and knowledge on one of the most promising renewable energy sources liquid and gaseous biofuels and their production and application The book delineates green technologies for abating environmental crisis and enabling the transformation into a sustainable future It provides date based scientific information on the most advanced and innovative technology on biofuels as well as the process scale up and commercialization of various liquid and gaseous biofuels detailing the functional mechanisms involved various operational configurations influencing factors and integration strategies All chapters have been updated with new chapters covering topics of current interest including sustainability and biohydrogen Presents a holistic view of biofuels in research operation scale up and application Widens the scope of the existing technologies providing state of the art information and knowledge Provides strategic integrations of various bioprocesses that are essential in establishing a circular biorefinery Contains interdisciplinary knowledge on the environment molecular biology engineering biotechnology microbiology and economic aspects Integrates various subjects including biotechnology bioengineering molecular biology environmental science sustainability science and chemical engineering *Biofuels and Bioenergy* Baskar Gurunathan,Renganathan Sahadevan,2022-06-14 Biofuels and Bioenergy A Techno Economic Approach provides an in depth analysis of the economic aspects of biofuels production from renewable feedstock Taking a biorefinery approach the book analyzes a wide range of feedstocks processes and products including common biofuels such as bioethanol biobutanol biooil and biodiesel feedstocks such as lignocellulosic biomass non edible feedstocks like vegetable oils algae and microbial lipids and solid and liquid wastes performance assessments of biodiesel in diesel engine and the latest developments in catalytic conversion and microbial electrosynthesis technologies This book offers valuable insights into the commercial feasibility of biofuels products for researchers and students working in the area of bioenergy and renewable energy but it is also ideal for practicing engineers in the biorefinery and biofuel industry who are looking to develop commercial products Focuses on an in depth techno economic analysis of biofuel and bioenergy products including all important feedstocks processes and products all of which are supported by industry case studies Includes environmental impacts and lifecycle assessments of biofuels production alongside techno economic analyses Provides a critical guide to assessing the commercial viability and feasibility of bioenergy production from renewable sources **Biomass, Biofuels, Biochemicals** Le Zhang,Yen Wah Tong,Jingxin Zhang,Ashok Pandey,2022-01-08 Microbial Fermentation of Biowastes summarizes new advances in the development of various strategies for enhanced microbial fermentation for organic waste conversion to bioenergy biochemicals and for biodegradation of plastic waste Sections cover principles of additive strategies multi stage bioreactors microbial bioaugmentation strategies genetically engineered microorganisms co digestion strategies feedstock pre treatment strategies enzyme technologies and hybrid technologies methods In addition the book reviews progress in the conversion of common

wastes to bioenergy and biochemicals via enhanced anaerobic digestion also summarizing the significant progress achieved on enhancing anaerobic digestion via additive strategy multi stage bioreactor strategy microbial bioaugmentation strategy genetic engineering approach and much more Includes enhancing strategies for microbial fermentation technologies for biowastes conversion to bioenergy and biochemicals Provides progress on bioenergy resource recovery from common biowastes including food waste agricultural waste manure wastewater and algal residues Includes microbial biodegradation of plastic waste

Advances in Biofeedstocks and Biofuels, Liquid Biofuel Production Lalit Kumar Singh, Gaurav Chaudhary, 2019-05-16 Biofuels production is one of the most extensively studied fields in the energy sector that can provide an alternative energy source and bring the energy industry closer to sustainability Biomass based fuel production or renewable fuels are becoming increasingly important as a potential solution for man made climate change depleted oil reserves and the dangers involved with hydraulic fracturing or fracking The price of oil will always be volatile and changeable and so long as industry and private citizens around the world need energy there will be a need for alternative energy sources The area known as biofuels and biofeedstocks is one of the most important and quickly growing pieces of the energy pie Biofuels and biofeedstocks are constantly changing and new processes are constantly being created changed and improved upon The area is rapidly changing and always innovative It is important therefore that books like the volumes in this series are published and the information widely disseminated to keep the industry informed of the state of the art This third volume in the Advances in Biofeedstocks and Biofuels series focuses on the production of liquid biofuel covering all of the major biofuels such as biodiesel biobutanol bioethanol and others This engaging text touches on all of the most important new processes and technologies providing the most up to date coverage of the science available to industry It is a must have for any engineer or scientist working with biofuel technology

Frontiers in Bioenergy and Biofuels Eduardo Jacob-Lopes, Leila Queiroz Zepka, 2017-01-25 Frontiers in Bioenergy and Biofuels presents an authoritative and comprehensive overview of the possibilities for production and use of bioenergy biofuels and coproducts Issues related to environment food and energy present serious challenges to the success and stability of nations The challenge to provide energy to a rapidly increasing global population has made it imperative to find new technological routes to increase production of energy while also considering the biosphere's ability to regenerate resources The bioenergy and biofuels are resources that may provide solutions to these critical challenges Divided into 25 discreet parts the book covers topics on characterization production and uses of bioenergy biofuels and coproducts Frontiers in Bioenergy and Biofuels provides an insight into future developments in each field and extensive bibliography It will be an essential resource for researchers and academic and industry professionals in the energy field

Nanomaterials in Biofuels Research Manish Srivastava, Neha Srivastava, P. K. Mishra, Vijai Kumar Gupta, 2020-03-09 As renewable energy sources biofuels have tremendous potential to replace fossil fuels in future energy scenarios offering green alternative energy sources However though such fuels could

mean a significant reduction in environmental pollution they are still far from practical implementation due to their high production costs and technical issues Consequently efforts are being made around the globe to achieve the cost effective production of biofuels In this context the use of nanomaterials to improve biofuels production efficiency is a vital emerging area Nanomaterials are attracting attention due to their versatile physicochemical properties and may improve the production process for various biofuels by acting as catalysts However this area is still in its infancy To improve the practical viability of the biofuels production process it is essential to focus on the specific type of nanomaterial used its synthesis and its specific effects on the process parameters This book explores the potential advantages and feasibility of various aspects of nanomaterials with regard to improving the current biofuels production process making it a valuable resource for a broad readership

Agricultural Waste to Value-Added Products Remya Neelancherry,Bin Gao,Alberto Wisniewski Jr,2023-11-27 This edited book provides a comprehensive review of the current agricultural waste disposal techniques focusing on the ongoing research in the production of various agro waste derived value added products Further topic includes the techno economic aspects in up scaling the technology from lab scale to commercial pilot scale Sustainable waste management and alternative renewable energy sources are the most important requirements in this era of rapid industrialization and urbanization Agricultural waste which is one of the major contributors to overall waste production has the ability to be an essential source of renewable energy and other valuable products The ongoing research and technical advancements in agro waste treatment lead to the efficient conversion of waste into different value added products This book is of primary interest to academicians researchers scientists and engineers working in the field of agro residue management and biomass to bio energy conversion technologies Also the book serves as reading material for students of Environmental Engineering Civil and Environmental Engineering and Agricultural Engineering Rural Management authorities Industrial and Government policy making agencies may also find it useful read

Biofuels ,2011-08-25 Global concern for energy security and environmental protection has put great emphasis on the search for alternative energy sources particularly for the transport sector Biofuels have emerged as a highly promising source of alternative energy and have drawn global R D for their production using biomass With the increasing worldwide demand of energy along with the depletion of conventional fossil fuel reserves there has been growing global interest in developing alternative sources of energy There has also been concern in growing economies regarding energy security Biofuels offer much promise on these frontiers In addition to the above they also have a reduced environmental impact in comparison to fossil fuels Biofuels provides state of the art information on the status of biofuel production and related aspects Detailed overview of the alternative energy field and the role of biofuels as new energy sources Gives a detailed account of the production of biodiesel from non conventional bio feedstocks such as algae and vegetable oils Includes production of biohydrogen the fourth generation biofuel

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