

Biomass Conversion and Biorefinery

Processing of Biogenic Material for Energy and Chemistry

Chemicals From Biomass Springer

**Brijesh K Tiwari, Milica Pojic, Xianglu
Zhu**

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Production of Biofuels and Chemicals with Pyrolysis Zhen Fang, Richard L. Smith Jr, Lujiang Xu, 2020-10-27 This book presents a collection of studies on state of art techniques for converting biomass to chemical products by means of pyrolysis which are widely applicable to the valorization of biomass In addition to discussing the fundamentals and mechanisms for producing bio oils chemicals gases and biochar using pyrolysis it outlines key reaction parameters and reactor configurations for various types of biomass Written by leading experts and providing a broad range of perspectives on cutting edge applications the book is a comprehensive reference guide for academic researchers and industrial engineers in the fields of natural renewable materials biorefinery of lignocellulose biofuels and environmental engineering and a valuable resource for university students in the fields of chemical engineering material science and environmental engineering

Progressive Thermochemical Biorefining Technologies Sonil Nanda, Dai-Viet N. Vo, 2021-09-01 Considering the deleterious impacts of fossil fuels on the environmental and natural ecosystems it has become imperative to make a paradigm shift toward renewable fuels chemicals and materials The exhaustive everyday usage of fossil fuels and processed petrochemical products are the leading causes for the increase in greenhouse gas emissions global warming climate changes acid rain ozone layer depletion pollution of air water and soil as well as for the accumulation of nonbiodegradable materials in the soil and oceans On the contrary biofuels biochemicals and biomaterials derived from renewable wastes such as nonedible plant biomass e g agricultural and forestry biomass energy crops microalgae municipal solid waste sewage sludge and other biogenic residues seem to be carbon neutral Therefore the global interest in biorefining technologies especially thermochemical and biological conversion processes is gaining momentum in academic and industrial perspectives

Progressive Thermochemical Biorefining Technologies offers all inclusive coverage of the most crucial topics as follows State of the art information on the production and utilization of biofuels through thermochemical biorefining technologies Conversion of waste biomass through pyrolysis liquefaction torrefaction carbonization gasification reforming and other clean technologies Waste to energy chemical generation Fuel upgrading technologies Techno economic analysis and life cycle assessment of biorefining processes Specifically designed to be instantly applicable this volume serves as a reference book for undergraduate and graduate students scientific investigators and research scholars working in the areas relating to energy and fuels

Materials, Chemicals, and Energy from Forest Biomass Dimitris S. Argyropoulos, 2007 This book will explore our forests as the most readily available and renewable source of carbon as well as the building block of chemicals plastics and pharmaceuticals as the next 100 years gradually push consumers toward alternate sources of chemicals Meeting these needs from trees requires that new chemistry be developed so that plant materials is converted to commodity chemicals This focused discussion on ongoing global efforts at creativity using forest and biomass based renewable materials will include six different mechanisms for bringing about change on this very innovative topic

Catalysis for Clean

Energy and Environmental Sustainability K. K. Pant, Sanjay Kumar Gupta, Ejaz Ahmad, 2021 This book is part of a two volume work that offers a unique blend of information on realistic evaluations of catalyst based synthesis processes using green chemistry principles and the environmental sustainability applications of such processes for biomass conversion refining and petrochemical production The volumes provide a comprehensive resource of state of the art technologies and green chemistry methodologies from researchers academics and chemical and manufacturing industrial scientists The work will be of interest to professors researchers and practitioners in clean energy catalysis green chemistry chemical engineering and manufacturing and environmental sustainability This volume focuses on the potentials recent advances and future prospects of catalysis for biomass conversion and value added chemicals production via green catalytic routes Readers are presented with a mechanistic framework assessing the development of product selective catalytic processes for biomass and biomass derived feedstock conversion The book offers a unique combination of contributions from experts working on both lab scale and industrial catalytic processes and provides insight into the use of various catalytic materials e g mineral acids heteropolyacid metal catalysts zeolites metal oxides for clean energy production and environmental sustainability

Next-Generation Biofuels Sonil Nanda, Prasenjit Mondal, 2025-12-04 Next Generation Biofuels delves into recent innovations and research advancements in alternative fuel processing for sustainable energy management Focusing on thermochemical biorefining technologies the book explores the production of advanced biofuel products covering topics such as reaction mechanisms catalysis kinetic modeling thermodynamics process integration and optimization It also addresses key aspects like process design and scale up supply chain management and lifecycle and techno economic assessments The book highlights the benefits and drivers of next generation biofuels examining economic feasibility sustainability and policy frameworks through detailed case studies Furthermore it discusses future challenges and opportunities for large scale implementation of thermochemical biomass conversion technologies Aimed at scientists researchers engineers and students in the field this book offers valuable insights into biofuels biochemicals and biomass conversion technologies and its potential impact on sustainability Provides up to date info on clean fuel energy security waste management and climate change mitigation Focuses on thermochemical conversion technologies for waste biomass to biofuels like BtL BtG GtL Covers conversion technologies hydrotreating technologies and catalytic processes for alternate fuels production Emphasizes biomass conversion technologies with flow diagrams reactor schematics and statistical data Explores recent developments in biofuels bioprocess engineering and environmental risk assessment Includes topics like fuel refining circular economy lifecycle assessment and GIS based biomass supply chain modeling Aids understanding chemical kinetics thermodynamics and techno economic analysis of biofuel production

Algal Biorefinery Ajay K. Dalai, Vaibhav V. Goud, Sonil Nanda, Venu Babu Borugadda, 2021-07-07 This book enables readers to understand the theoretical aspects key steps and scientific techniques with a detailed mechanism to produce biofuels from algae Each chapter provides the latest developments and

recent advancements starting from algal cultivation techniques to the production of value added green fuels chemicals and products with wide applications The volume brings together a broad range of international and interdisciplinary experts including chemical and biological engineers biotechnologists process engineers environmentalists pharmacists and nutritionists to one platform to explore the beneficial aspects and challenges for an algal based biorefinery Chapters address cutting edge issues surrounding algal cultivation including genetic modification of algal strains design and optimization of photobioreactors and open pond systems algal oil extraction techniques and algal derived fuel products biodiesel bio gasoline jet fuels and bio oil Finally the book considers the potential environmental impacts for establishing a sustainable algal biorefinery through lifecycle analysis techno economic assessment and supply chain management This book will be an important resource for students academics and professionals interested in algal cultivation biofuels and agricultural engineering and renewable energy and sustainable development more broadly

Sustainable Management of Agro-Food Waste Shalini Rai,Abhishek Kumar Bhardwaj,Luciane Colla,2024-11-17 *Sustainable Management of Agro Food Waste Fundamental Aspects and Practical Applications* provides insights into the latest approaches for optimizing waste produced by these industries Bioconversion of agro food waste is a significant concern for maintaining the ecosystem This book covers current research into the production of a variety of bioactive compounds bioenergy resources and nanomaterials using potential microbes associated widely with the industry s waste With primary focus on the microbial enzymes secondary metabolites single cell protein bioethanol biohydrogen bio fortified compost bioelectricity and nanomaterial s the book presents a range of biotechnological approaches Sections describe the application of microbial niches in waste recycling and renewable energies like biofuel plant enzymes and hormones for different agriculture and allied sectors With recent advancements in the synthesis of bioactive compounds bioenergy and nanomaterials and the discovery of their agriculture environmental and biomedical applications it is expected that these methods will be applied at a large scale for industrial application in different sectors Policies required for the agro food waste management and option for their utilization are also discussed along with the sources of their generation Presents the foundation of agro food waste management including green nanotechnology Includes multiples management techniques and their potential benefits Explores the proper mechanisms of synthesis for value added materials and products for use in bioenergy and biofuel

Innovative Biorefinery Processes for Agri-Food Value Chains Brijesh K Tiwari,Milica Pojic,Xianglu Zhu,2025-08-01 *Innovative Biorefinery Processes for Agri Food Value Chains* provides detailed information on biorefinery concepts and technologies and their applications in agri food value chains It covers various topics related to biorefinery such as biomass feedstocks conversion technologies product recovery and economic and environmental sustainability Divided into five sections the first one brings the definitions and fundamental information of agri food biorefinery The second section explores biomass for agri food biorefinery Section three deals with technological aspects of biorefinery while Section four brings Novel value chains using renewable biomass for food

biorefinery and bioproducts and Section five presents the environmental and social aspects of biorefinery The book also includes case studies and examples of successful biorefinery projects from around the world Edited by a team of experts in the field this book is a great resource for researchers academics industry professionals policymakers and graduate and post graduate students working in the fields of food science and technology agriculture and sustainable development Discusses the economic and environmental sustainability of biorefinery systems including their impact on the circular economy and the bioeconomy Covers the application of biorefinery in agri food value chains including case studies and examples Explains biorefinery concepts and technologies including their benefits and limitations

Advances in Sugarcane Biorefinery Anuj K. Chandel, Marcos Henrique Luciano Silveira, 2017-12-05 **Advances in Sugarcane Biorefinery Technologies Commercialization Policy Issues and Paradigm Shift for Bioethanol and By Products** by Chandel and Silveira compiles the basic and applied information covering cane and biomass processing for sugar and ethanol production as well as by products utilization for improving the economy of sugarcane biorefineries In this unique collection of 14 chapters specialists in their field provide critical insights into several topics review the current research and discuss future progress in this research area The book presents the most current advances in sugarcane biorefinery including sugarcane crop cultivation new sugarcane varieties soil health mechanization of crop technical aspects of first and second generation ethanol production economic analysis life cycle assessment biomass logistics and storage co generation of heat and electricity process intensification and alternative by products utilization The book also explores the business ecosystem of sugarcane biorefineries marketing analysis of ethanol demand and price dwindling patterns aiming for a futuristic scenario This book will be especially useful for scientists researchers and technicians who are working in the area of biomass based biorefineries as well as professionals in the sugar and alcohol industry It also brings relevant content for policy makers market analysts agriculture scientists and managers Presents technological updates on biomass processing system biology microbial fermentation catalysis regeneration and monitoring of renewable energy and recovery processes Includes topics on techno economic analysis life cycle assessment sustainability markets and policy Explores the future potential of biorefineries with zero or near zero waste and the potential of valorization of all by products including alternatives to current applications and the management of a large amount of residues

Solar Energy Update, 1983 **Catalysis for Clean Energy and Environmental Sustainability** K. K. Pant, Sanjay Kumar Gupta, Ejaz Ahmad, 2021-04-11 This book is part of a two volume work that offers a unique blend of information on realistic evaluations of catalyst based synthesis processes using green chemistry principles and the environmental sustainability applications of such processes for biomass conversion refining and petrochemical production The volumes provide a comprehensive resource of state of the art technologies and green chemistry methodologies from researchers academics and chemical and manufacturing industrial scientists The work will be of interest to professors researchers and practitioners in clean energy catalysis green chemistry chemical engineering and manufacturing and

environmental sustainability This volume focuses on the potentials recent advances and future prospects of catalysis for biomass conversion and value added chemicals production via green catalytic routes Readers are presented with a mechanistic framework assessing the development of product selective catalytic processes for biomass and biomass derived feedstock conversion The book offers a unique combination of contributions from experts working on both lab scale and industrial catalytic processes and provides insight into the use of various catalytic materials e g mineral acids heteropolyacid metal catalysts zeolites metal oxides for clean energy production and environmental sustainability *Biomass Conversion* Chinnappan Baskar, Shikha Baskar, Ranjit S. Dhillon, 2012-05-08 The consumption of petroleum has surged during the 20th century at least partially because of the rise of the automobile industry Today fossil fuels such as coal oil and natural gas provide more than three quarters of the world s energy Unfortunately the growing demand for fossil fuel resources comes at a time of diminishing reserves of these nonrenewable resources The worldwide reserves of oil are sufficient to supply energy and chemicals for only about another 40 years causing widening concerns about rising oil prices The use of biomass to produce energy is only one form of renewable energy that can be utilized to reduce the impact of energy production and use on the global environment Biomass can be converted into three main products such as energy biofuels and fine chemicals using a number of different processes Today it is a great challenge for researchers to find new environmentally benign methodology for biomass conversion which are industrially profitable as well This book focuses on the conversion of biomass to biofuels bioenergy and fine chemicals with the interface of biotechnology microbiology chemistry and materials science An international scientific authorship summarizes the state of the art of the current research and gives an outlook on future developments **Chemistry and Industry**, 1990 *Scientific and Technical Books and Serials in Print*, 1989

Symposium on Cellulose and Wood as Future Chemical Feedstocks and Sources of Energy, and General Papers

A. Sarko, 1983 Biorefineries Miriam Rabaçal, Ana F. Ferreira, Carla A. M. Silva, Mário Costa, 2017-03-25 This book addresses the potential of the transformation of biomass into a wide range of marketable products and examines the biological biochemical physical and thermal processing of biomass into products such as fuels power heat feeds chemicals and materials Respective chapters explore various topics including biomass characterization biomass pre conditioning and sustainability analysis aspects that are supplemented by a global overview of their implementation in current pilot bio refineries Providing a valuable resource to energy engineers chemical engineers biotechnologists and economists this book will also be of great interest to students and policymakers Cumulative Book Index, 1998 A world list of books in the English language **Biorefineries - Industrial Processes and Products** Birgit Kamm, Patrick R. Gruber, Michael Kamm, 2006 Publisher Description **Directory of Graduate Research** American Chemical Society. Committee on Professional Training, 1983 *Catalysis from A to Z* Boy Cornils, 2007 Comprehensive succinct and easy to use this updated third edition contains 50% more content in three volumes More than 200 top scientists worldwide have contributed over 8

000 entries with 3 300 cross references on all aspects of bio heterogeneous and homogeneous catalysis

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