

Sustainable Farming, Biofuels, and Role of Precision Agriculture

BIOFUEL



More Bio Fuel Less Bio Waste More Bio Fuel Less Bio Waste

Armen B. Avagyan, Bhaskar Singh



More Bio Fuel Less Bio Waste More Bio Fuel Less Bio Waste:

Biowaste and Biomass in Biofuel Applications Yashvir Singh,Vladimir Strezov,Prateek Negi,2023-02-27 This book reflects the new dimension of biofuel production from its introductory principles to the advancements from a future prospective It summarizes the rationale for changes in liquid fuel utilization and the selection of new technologies to make biofuel cost effective and move toward a carbon neutral approach It provides an evidence based outline of how additives and nanotechnology chemically change biofuels quality and effectiveness including new and innovative approaches such as nanomaterials and various nano additives Features It provides an overview of biowaste as a sustainable source in the field of biofuel production It includes effective conversion parameters of the biowaste feedstocks and their classification It summarizes current research into the development and exploitation of new biofuel sources It discusses the improvement of pilot scale scalability chemical processing and design flow It presents relevant and realistic global explanations of biowaste management techniques for biofuels This book is aimed at senior undergraduate and graduate students and researchers in bioprocessing chemical engineering and biotechnology

Biowaste to Biofuel Shashi Kant Bhatia,Parmjit Singh Panesar,Ranjit Gurav,2025-10-06 This book encompasses a wide range of topics related to biowaste to biofuels covering agro wastes food waste wastewater CO₂ and so forth Each chapter provides an indepth examination of a specific biowaste to biofuel conversion technology discussing the underlying science production processes challenges and potential applications It presents practical insights into microbial biofuel production including detailed explanations of fermentation processes microbial pathways conversion techniques and technological advancements backed by case studies Includes theory and delves into practical applications of microbial biofuels Reviews sustainability and environmental benefits with a focus on renewable energy Explores how these fuels can help reduce greenhouse gas emissions and combat climate change Discusses bioalcohol biodiesel biohydrogen biomethane and so forth Provides real world examples and case studies showcasing biofuel potential for a greener future This book is aimed at graduate master s students and researchers in bioenergy fermentation and chemical engineering

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

Bioenergy Engineering Krushna Prasad Shadangi, Prakash Kumar Sarangi, Kaustubha Mohanty, Irem Deniz, Anjani Ravi Kiran Gollakota, 2023-06-20 Bioenergy Engineering Fundamentals Methods Modelling and Applications presents the fundamental principles recent developments innovative state of the art technologies challenges solutions and future perspectives on the production of biofuels and bioenergy Balancing the scientific and engineering aspects of biofuels production the book guides readers through the chemical kinetics modeling thermodynamics unit operations and technological advancements in fuel processing from conventional and alternative resources Each chapter of the book starts with the fundamentals and goes on to assess the latest technologies for the production of renewable fuels on topics Sections cover biomass utilization biomass to liquid conversion technologies pyrolysis liquefaction solid state fermentation and submerged fermentation biomass to gas conversion technologies thermochemical gasification subcritical and supercritical water gasification and methanation gas to liquid conversion technologies Fischer Tropsch synthesis carbonization transesterification organic transformation carbon carbon and carbon heteroatom coupling reactions oxidation reforming hydrotreating technologies hydrogenation hydrodesulfurization hydrodenitrogenation hydro dearomatization and hydro demetalization nanocatalysis and biocatalysis enzymatic hydrolysis and much more Analyzes emerging technologies for the sustainable conversion of various waste and non waste materials into bioenergy and biofuels Examines a wide range of feedstocks and conversion pathways for liquid and gaseous biofuels Offers practical guidance and data on how to conduct lifecycle assessment techno economic analysis and utilize GIS modeling for a range production pathways

Bio-prospecting of Novel Microbial Bioactive Compounds for Sustainable Development Kartika Sharma, 2025-04-26 This book discusses current developments and upcoming trends in the microbial synthesis of various bioactive compounds from waste product which have a very good market worldwide The extraction of biologically active compounds from microorganisms is still essential for the creation of novel pharmaceuticals and agricultural chemicals and has underpinned their application as drugs and functional food ingredients The demand of pharmaceuticals nutraceuticals and agrochemicals is rising globally for the multi billion dollar market of human disease prevention and treatment However the limitations and issues associated with the extraction of these bioactive compounds from natural resources such as plants animals or fungi limit the large scale use of pharmaceuticals nutraceuticals and agrochemicals The microbial production of agrochemicals nutraceuticals and pharmaceuticals by utilizing waste product is now thought to be an environmentally benign process The major goal of this book is to draw attention to excellent original

research and review articles that contain cutting edge characterization techniques and novel bioactive chemicals production that make important contributions to the field with many prospective applications In this book the potential for using microbial bioactive compounds which have positive health effects in their entirety is highlighted This book is written by eminent scientists from around the world and seasoned researchers thoroughly discusses current developments and patterns in the microbial synthesis of bioactive compounds Academicians scientists researchers graduate and post graduate students who work in the highly dynamic and competitive fields of pharmaceuticals nutraceuticals and agrochemicals discovery will find this book to be ideal Sustainable Bioconversion of Waste to Value Added Products Inamuddin, Anish Khan, 2021-04-20

This edited book discusses various processes of feedstocks bioconversion such as bioconversion of food waste human manure industrial waste beverage waste kitchen waste organic waste fruit and vegetable poultry waste solid waste agro industrial waste cow dung steroid lignocellulosic residue biomass natural gas etc Nowadays the industrial revolution and urbanization have made human life comfortable However this requires excess usage of natural resources starting from food and food products to energy resources materials as well as chemicals The excess use of natural resources for human comfort is expected to high fuel prices decline natural resources as well as cause a huge hike in the cost of raw materials These factors are pushing researchers to grow environmentally friendly processes and techniques based on inexpensive and sustainable feedstock to accomplish such worldwide targets Bioconversion otherwise called biotransformation is the change of natural materials for example plant or animal waste into usable items or energy sources by microorganisms Bioconversion is an environmentally friendly benevolent choice to supplant the well established chemical procedures utilized these days for the production of chemicals and fuels A variety of alternatives advancements are being considered and are directly accessible to acquire diverse valuable end products through bioprocesses This book discusses in detail the process and techniques of bioconversion by focusing on the organic feedstock of animal and plant origin It brings solutions to the bioconversion of various feedstock into value added products *Decoupling of CO₂ Emissions from Energy Intensive Industries* Mikael Skou Andersen, Martin K. Enevoldsen, Anders V. Ryelund, Nordic Council of Ministers, 2006 *Biodegradable Waste Management in the Circular Economy* Malgorzata Kacprzak, Eleonore Attard, Kari-Anne Lyng, Helena Raclavska, BalRam Singh, Eyob Tesfamariam, Franck Vandenbulcke, 2022-06-20 Biodegradable Waste Management in the Circular Economy Presents the major developments in new technologies and strategies for more effective recovery of matter resources and energy from biodegradable waste The volume of biodegradable waste produced worldwide is progressively increasing a trend that is predicted to continue well into the foreseeable future Developing sustainable cost effective and eco friendly approaches for processing food waste agricultural and organic industrial waste cardboard biodegradable plastics sewage sludge and other types of biodegradable waste is one of the most significant challenges of the coming decades Biodegradable Waste Management in the Circular Economy provides a detailed overview of the latest advances in the management of biomass for

economic development Featuring contributions from an interdisciplinary team of experts this comprehensive resource addresses various technologies and strategies for recycling organic matter and many other renewable compounds In depth chapters describe the concept of circular economy identify new sources of biodegradable waste explore technologies for the production of biodegradable waste end products discuss the positive and negative effects of end products on soil and the environment and more Throughout the text the authors explore systematic approaches for secure biodegradable management in various countries and regions around the world Explores the social governance and economic aspects of waste as a resource Addresses metal recovery biofuel and fertilizer production and biosorbents and biochar derived from biomass waste Discusses nutrient recovery and energy and bio methane production from biodegradable waste Covers use cases collection systems and regulation of agricultural industrial and municipal biodegradable waste streams Presents various technologies for the production of biodegradable waste end products including biorefineries anaerobic digestion and hybrid methods Reflecting the latest trends in the rapidly changing field Biodegradable Waste Management in the Circular Economy is essential reading for researchers engineers scientists and consultants working in waste engineering and management resource recovery renewable resources environmental science agricultural and environmental engineering soil science and bioenergy

Valorization of Agri-Food Wastes and By-Products Rajeev Bhat,2021-08-25 Valorization of Agri Food Wastes and By Products Recent Trends Innovations and Sustainability Challenges addresses the waste and by product valorization of fruits and vegetables beverages nuts and seeds dairy and seafood The book focuses its coverage on bioactive recovery health benefits biofuel production and environment issues as well as recent technological developments surrounding state of the art of food waste management and innovation The book also presents tools for value chain analysis and explores future sustainability challenges In addition the book offers theoretical and experimental information used to investigate different aspects of the valorization of agri food wastes and by products Valorization of Agri Food Wastes and By Products Recent Trends Innovations and Sustainability Challenges will be a great resource for food researchers including those working in food loss or waste agricultural processing and engineering food scientists technologists agricultural engineers and students and professionals working on sustainable food production and effective management of food loss wastes and by products Covers recent trends innovations and sustainability challenges related to food wastes and by products valorization Explores various recovery processes the functionality of targeted bioactive compounds and green processing technologies Presents emerging technologies for the valorization of agri food wastes and by products Highlights potential industrial applications of food wastes and by products to support circular economy concepts

Biofuel Production Technologies: Critical Analysis for Sustainability Neha Srivastava,Manish Srivastava,P. K. Mishra,Vijai Kumar Gupta,2020-03-23 Production and utilization of sustainable energy toward maintaining a clean environment is a major challenge At the same time the continued depletion of fossil fuels and the global dependency on non renewable fuels is a

chief concern Moreover the long term economic and environmental issues associated with the high utilization of fossil fuel such as global warming are also important particularly in the context of the predicted increase in the global population to around 5 billion by 2050 In recent years researchers have been investigating alternative renewable fuels to replace fossil fuels Of the various options biofuels are especially attractive due to their low production costs and the fact that they are pollution free Also known as transportation fuels their energy is derived from biological resources or through the biological processes Biofuels such as biohydrogen biomethane biogas ethanol and butanol offer a number of advantages and can be economically produced from cellulosic biomass As such they can play a vital role in sustainably meeting future energy demands Biofuels have the potential to become a global primary energy source offering significant reductions in greenhouse gas emissions as well as opportunities to increase economic and social development in rural communities and reduce the problems associated with waste disposal However low yields and lack of process technology are some of the aspects that need to be addressed This book offers an overview of existing biofuels and the technologies to solve the problems associated with their practical implementation Evaluating the biofuel options and discussing the opportunities and risks in relation to resources technologies practices markets and policy it provides insights into the development of economically viable bioenergy industries

Promoting bioeconomy through agriculture practice in Eastern Europe and Central Asia

Food and Agriculture Organization of the United Nations, Kacprzak, A., Ferri, M., 2025-01-10 This report published by the Food and Agriculture Organization of the United Nations FAO explores the promotion of bioeconomy through sustainable agricultural practices in Eastern Europe and Central Asia The analysis highlights the critical role of sustainable and circular bioeconomy in addressing environmental social and economic challenges particularly in the agrifood sector By leveraging nature based solutions reducing dependence on non renewable resources and revitalizing rural areas the bioeconomy fosters ecosystem restoration food security and climate resilience The report provides an in depth regional assessment identifying key agricultural practices aligned with bioeconomy principles It evaluates production trends regional agricultural systems and the integration of bioeconomy strategies across diverse subregions from the Western Balkans to Central Asia The findings underscore the potential for bioeconomy to drive innovation in value chains reduce environmental impact and contribute to the Sustainable Development Goals SDGs Challenges such as limited statistical compatibility and uneven availability of data across subregions are addressed Despite these limitations the document offers a foundational perspective for understanding the intersection of bioeconomy and sustainable agriculture It also identifies opportunities for further research and policy development to optimize the transition towards sustainable agrifood systems emphasizing collaboration resource efficiency and technological innovation

Encyclopedia of Electrochemical Power Sources

, 2024-10-03 The Encyclopedia of Electrochemical Power Sources Second Edition is a comprehensive seven volume set that serves as a vital interdisciplinary reference for those working with batteries fuel cells electrolyzers supercapacitors and photo

electrochemical cells With an increased focus on the environmental and economic impacts of electrochemical power sources this work not only consolidates extensive coverage of the field but also serves as a gateway to the latest literature for professionals and students alike The field of electrochemical power sources has experienced significant growth and development since the first edition was published in 2009 This is reflected in the exponential growth of the battery market the improvement of many conventional systems and the introduction of new systems and technologies This completely revised second edition captures these advancements providing updates on all scientific technical and economic developments over the past decade Thematically arranged this edition delves into crucial areas such as batteries fuel cells electrolyzers supercapacitors and photo electrochemical cells It explores challenges and advancements in electrode and electrolyte materials structural design optimization application of novel materials and performance analysis This comprehensive resource with its focus on the future of electrochemical power sources is an essential tool for navigating this rapidly evolving field Covers the main types of power sources including their operating principles systems materials and applications Serves as a primary source of information for electrochemists materials scientists energy technologists and engineers Incorporates 365 articles with timely coverage of environmental and sustainability aspects Arranged thematically to facilitate easy navigation of topics and easy exploration of the field across its key branches Follows a consistent structure and features elements such as key objective boxes summaries figures references and cross references etc to help students faculty and professionals alike

Microbial Biofuel Shashi Kant Bhatia, Parmjit Singh Panesar, Ranjit Gurav, 2025-03-07 Microbial Biofuel A Sustainable Source of Renewable Energy explores microbial biofuel production from a technical standpoint addressing a wide range of topics including bio alcohol biodiesel biohydrogen biomethane biohythane jet fuel drop in fuel bioelectricity bio oil biomass to biofuel carbon capture and more Each chapter provides an in depth examination of a specific biofuel type discussing the underlying science production processes challenges and its potential applications The title draws examples from the latest research and advancements in the field including cutting edge technologies methodologies and case studies It covers advances in fermentation strategies and commercial scale implementation of microbial technology for biofuel production along with comprehensive information on bio alcohol biodiesel biohydrogen biomethane etc The book explores practical applications of microbial biofuels and uses real life examples and case studies Moreover the book discusses sustainability and environmental benefits of using renewable energy The title is an ideal read for graduate students and researchers specialising in bioenergy and chemical engineering

Barriers for utilisation of biowaste Mikael Hallstrøm Eriksen , Camilla K Damgaard, Lena Holm Christensen, David McKinnon, 2017-04-06 There is an increased focus on ensuring optimal use of the resources of the planet However experience shows that legislation can hinder the use of the resources from waste This report examines the unintended consequences that legislation enforcement and other formal institutions can have on utilization of biowaste as a resource The project consists of three main elements 1 Desk research 2 Qualitative phone

interviews with relevant actors in Norway Sweden Denmark and Finland 3 Solution dialogues with authorities The barriers to better utilisation of biowaste are diffuse and the solutions complex A mixture of changes in regulation better cooperation and coordination between regulative bodies and better guidance and information sharing between national and municipal authorities and the business community would together reduce the barriers for utilisation of biowaste

Advances in Chemical Biology- An Insight to New Applications and Developments Volume - 1 Dr. Sharangouda J. Patil,,Dr. Sadashiv S. O.,Dr. Nandeshwarappa B.,2023-06-21 Advances in chemical and biological sciences are together contributing as organic molecules by the natural or synthetic sources with the research insight of scientific touch to make it as innovative ideas process protocols products and technologies for industrial applications These conceptual applications are useful to determine the next generation organic molecules against cardiovascular degenerative infectious neurological diseases with the valid data needed to prove its technical efficiency by the comparing standard drugs Emerging any drugs from the origin of organic drugs are having more importance in the industries due to their efficacy and target to regulate or recover the health issues these novel drugs may be in the form of enzymes metabolites proteins hormones or call it as biologically derived organic molecules Most of the organic molecule findings are used to analyze their hypotheses mechanism of action experimental design and their biological properties to derive functional aspects To know these molecules structural configuration various techniques and technology used and it is essential to be characterizing the molecule by the chromatography spectroscopy etc to confirm and further biological studies to know the properties In this context this edited comprehensive book brings the current innovation in the organic molecules with the updates of various biological applications and covering the area of agriculture biotechnology microbiology nutraceuticals nanotechnology pharmacology synthetic medicinal chemistry etc based applicative research data to reviewed extensively in narrative form Highlights of the chapters are novel experimental protocol methodology techniques study concepts used advanced tools and statistical analysis for the use of organic molecules to know their biological properties The book possessing 9 chapters covering chemistry and biological investigations on the organic molecules with the updated innovative findings principles of the molecules molecular targets also interactions with cell lines microorganisms and animal models which persuade remedial measures as preclinical and clinical studies Book also focused on types of synthesis advanced extractions use of analytical tools purification schemes characterization methods and data analytics It is designed as comprehensive reference book for all the grade level of researcher to use it as experimental handbook or manual to work on the similar areas it is also useful for the creative scholars to obtain research experience and enhance the skills by updating themselves as need of hour also know the timely outbreaks to combat by such organic molecules as emerging drugs to be in a bio innovation forum

House of Lords - Science and Technology Select Committee: Waste or Resource? Stimulating a Bioeconomy - HL 141 Great Britain: Parliament: House of Lords: Science and Technology Committee,2014-03-06 The Select Committee report Waste Or Resource Stimulating A Bioeconomy

HL 141 advises that the UK could miss out on a massive opportunity to create a flourishing multibillion pound economy from waste. Although there are many kinds of waste generated from a variety of sources, the Lords inquiry looked specifically at waste which contains carbon. Around 100 million tons of carbon-containing waste are available every year which could potentially be exploited as a resource. While preventing the creation of waste in the first place is a laudable policy goal, it is inevitable that there will always be waste or unavoidable by-products such as orange peel, coffee grounds or waste gas from factories and power stations. Using cutting edge technologies, wastes such as these can be converted into valuable products such as fuels, flavors and fragrances, plastics, paint or pharmaceuticals. There are environmental benefits to be had from harnessing the waste.

Climate, Environment and Agricultural Development Praveen Kumar Rai, Shalini Rai, 2024-12-16
This book discusses an emerging context of climate change, environmental degradation, monitoring and management, agricultural vulnerability and its development and adaptation from local to global scale. The book also describes the research methodology in a simple and lucid way so that a researcher can adopt it in his/her field studies. Individual chapters are dedicated to different subjects such as the quantification of climate change impacts on environment, land use, land cover, crops in controlled and field conditions, water resources, soil fertility, erosion and carbon sequestration, insects, pests, weeds, microbes and diseases, greenhouse gas emission assessment, regional vulnerability to climate change and selection of crop. Researchers from around the world and from various fields explore these important topics in the book. The book is a valuable resource for environmentalists, geographers, economists, agronomists, biologists, agricultural scientists, climate modellers, policy analysts, development agency staff and graduate and postgraduate students.

Biofuel Technologies for a Sustainable Future: India and Beyond Yashvir Singh, Prateek Negi, Wei Hsin Chen, 2023-05-05
This book examines the key aspects that will define future sustainable energy systems: biofuels, green nanomaterials and the production of bioethanol and bio-hydrogen from bio-waste. Bio-based fuels are the future energy carriers for internal combustion engines as they have lower environmental impact and higher efficiency. The book clearly illustrates the requirement for a unified engineering approach based on solid mathematical and engineering principles. Aside from the ecological advantages, support for sustainable energy can help the socioeconomic situation of developing countries by providing a consistent supply of new energy along with the generation of new job opportunities. The sustainable energy applications and existing contextual investigations provide useful guidance for the broad comprehension of the significance of sustainable energy. Technical topics discussed in the book include Thermochemical Conversion process, Catalytic conversion process, Rankine cycle, Nanomaterials.

A-Z of Biorefinery Nuttha Thongchul, Antonis Kokossis, Suttichai Assabumrungrat, 2021-11-19
A-Z of Biorefinery: A Comprehensive View provides a comprehensive book that highlights and illustrates important topics relating to biorefineries including associated theory, current and future research trends, available techniques and future challenges. This book will benefit a wide range of audiences including students, engineers, scientists, practitioners and those who are keen to explore

more on biorefinery Sections cover the availability of current technologies constraints market trends recent system developments and the concepts that enable modern biorefineries to utilize all kinds of biomass This book is an essential resource for students scientists engineers and practitioners working in industry and academia Covers the most important topics relating to biorefineries Provides related definitions theories overviews of methods applications and important references Offers perspectives and concise reviews for each section Includes complete design case studies with tutorials

Biodiesel: Feedstocks, Technologies, Economics and Barriers Armen B. Avagyan, Bhaskar Singh, 2019-05-07 Air pollution policy is closely connected with climate change public health energy transport trade and agriculture and generally speaking the Earth has been pushed to the brink and the damage is becoming increasingly obvious The transport sector remains a foremost source of air pollutants a fact that has stimulated the production of biofuels This book focuses on the biodiesel industry and proposes a modification of the entire manufacturing chain that would pave the way for further improvements Oil derived from oilseed plantations crops is the most commonly used feedstock for the production of biodiesel At the same time the UK's Royal Academy of Engineering and 178 scientists in the Netherlands have determined that some biofuels such as diesel produced from food crops have led to more emissions than those produced by fossil fuels Accordingly this book re-evaluates the full cycle of biodiesel production in order to help find optimal solutions It confirms that the production and use of fertilizers for the cultivation of crop feedstocks generate considerably more GHG emissions compared to the mitigation achieved by using biodiesel To address this fertilization challenge projecting future biofuel development requires a scenario in which producers shift to an organic agriculture approach that includes the use of microalgae Among advanced biofuels algae's advantages as a feedstock include the highest conversion of solar energy and the ability to absorb CO₂ and pollutants as such it is the better choice for future fuels With regard to the question of why algae's benefits have not been capitalized on for biofuel production our analyses indicate that the sole main barrier to realizing algae's biofuel potential is ineffective international and governmental policies which create difficulties in reconciling the goals of economic development and environmental protection

Uncover the mysteries within Explore with is enigmatic creation, Discover the Intrigue in **More Bio Fuel Less Bio Waste More Bio Fuel Less Bio Waste** . This downloadable ebook, shrouded in suspense, is available in a PDF format (*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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