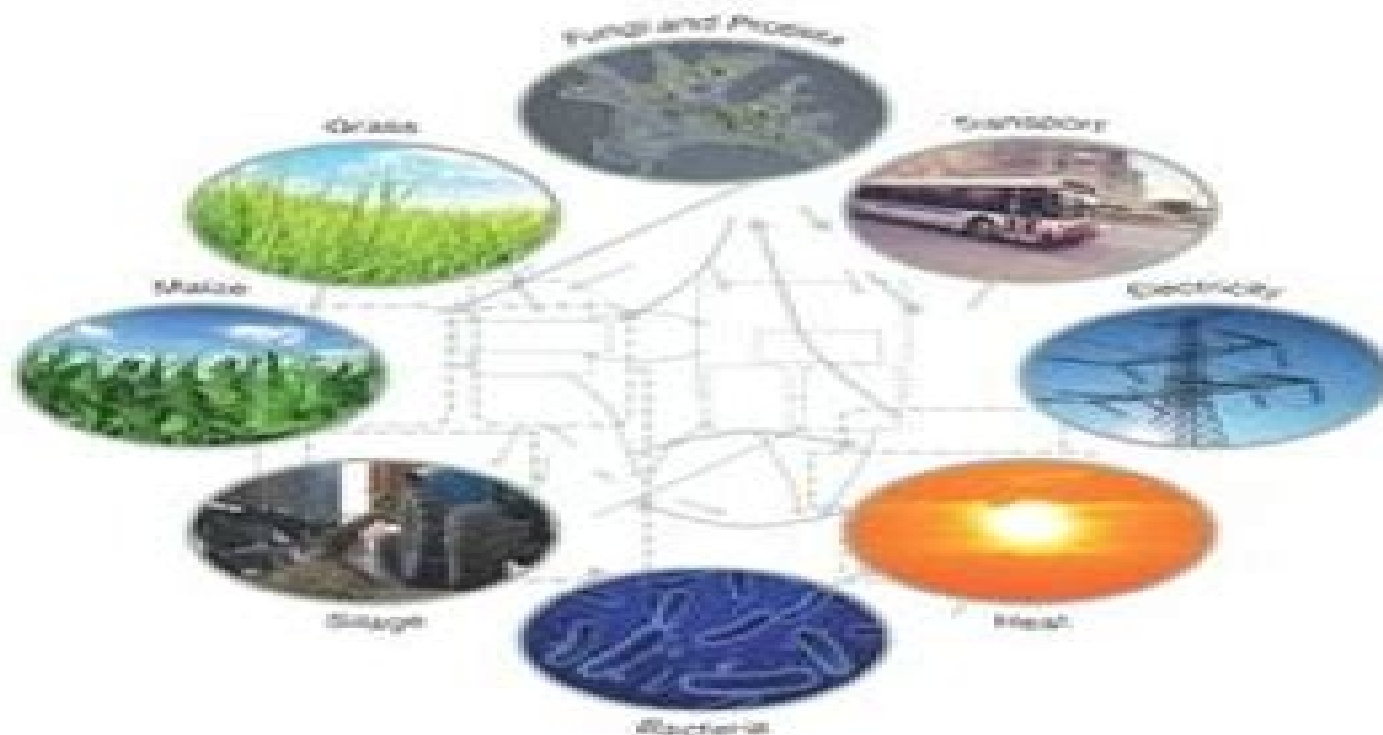


Bioenergy Production by Anaerobic Digestion

Using agricultural biomass and organic wastes

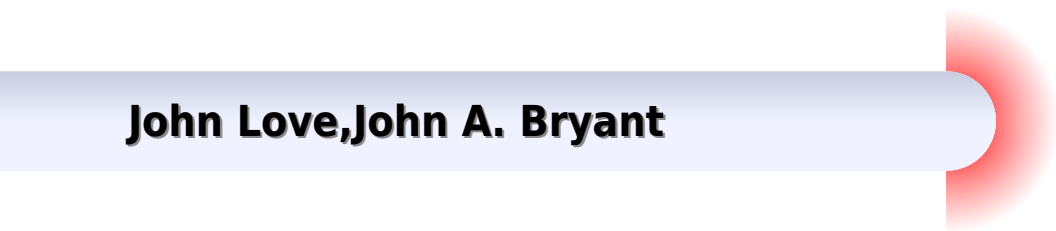


Edited by
Nicholas E. Korres, Padraig O'Keely,
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Bioenergy Production By Anaerobic Digestion Using Agricultural Biomass And Organic Wastes

John Love, John A. Bryant



Bioenergy Production By Anaerobic Digestion Using Agricultural Biomass And Organic Wastes:

Bioenergy Production by Anaerobic Digestion Nicholas Korres, Pádraig O'Kiely, John A.H. Benzie, Jonathan S. West, 2013-08-29 Interest in anaerobic digestion AD the process of energy production through the production of biogas has increased rapidly in recent years Agricultural and other organic waste are important substrates that can be treated by AD This book is one of the first to provide a broad introduction to anaerobic digestion and its potential to turn agricultural crops or crop residues animal and other organic waste into biomethane The substrates used can include any non woody materials including grass and maize silage seaweeds municipal and industrial wastes These are all systematically reviewed in terms of their suitability from a biological technical and economic perspective In the past the technical competence and high capital investment required for industrial scale anaerobic digesters has limited their uptake but the authors show that recent advances have made smaller scale systems more viable through a greater understanding of optimising bacterial metabolism and productivity Broader issues such as life cycle assessment and energy policies to promote AD are also discussed

Biofuels and Bioenergy John Love, John A. Bryant, 2017-02-28 With increased public and scientific attention driven by factors such as oil price spikes the need for increased energy security and concerns over greenhouse gas emissions from fossil fuels the production of fuels by biological systems is becoming increasingly important as the world seeks to move towards renewable sustainable energy sources Biofuels and Bioenergy presents a broad wide ranging and informative treatment of biofuels The book covers historical economic industrial sociological and ecological environmental perspectives as well as dealing with all the major scientific issues associated with this important topic With contributions from a range of leading experts covering key aspects including Conventional biofuels Basic biology biochemistry and chemistry of different types and classes of biofuel Current research in synthetic biology and GM in the development and exploitation of new biofuel sources Aspects relating to ecology and land use including the fuel v food dilemma Sustainability of different types of biofuel Ethical aspects of biofuel production Biofuels and Bioenergy provides students and researchers in biology chemistry biochemistry and chemical engineering with an accessible review of this increasingly important subject **Environmental**

Microbiology and Biotechnology Anoop Singh, Shaili Srivastava, Dheeraj Rathore, Deepak Pant, 2020-09-23 This book provides up to date information on the state of the art in applications of biotechnological and microbiological tools for protecting the environment Written by leading international experts it discusses potential applications of biotechnological and microbiological techniques in solid waste management wastewater treatment agriculture energy and environmental health This first volume of the book Environmental Microbiology and Biotechnology covers three main topics Solid waste management Agriculture utilization and Water treatment technology exploring the latest developments from around the globe regarding applications of biotechnology and microbiology for converting wastes into valuable products and at the same time reducing the environmental pollution resulting from disposal Wherever possible it also includes real world examples

Further it offers advice on which procedures should be followed to achieve satisfactory results and provides insights that will promote the transition to the sustainable utilization of various waste products

Anaerobic Digestion - Making Biogas - Making Energy Tim Pullen, 2015-01-09 Hundreds of million tonnes of agricultural and food waste are produced each year around the world most of which is just that waste Anaerobic digestion biogas and the heat and electricity that can be produced from it is still a nascent industry in many countries yet the benefits of AD spread throughout the community Gives good financial returns to farmers and eco entrepreneurs Helps community leaders meet various policies and legislative targets Offers an environmentally sensitive waste disposal option Provides a local heat and power supply how they work the impact of scale the basic requirements the costs and financial implications and how to get involved in this rapidly growing green industry

Anaerobes and Waste Conversion Technologies Shreeshivadasan Chelliapan, Santhana Krishnan, Vasudeo Zambare, 2024-11-12 This book covers all aspects of anaerobic waste conversion technologies using anaerobes particularly in anaerobic digestion and fermentation processes It provides the latest advances in waste to energy techniques for converting solid and liquid wastes to valuable fuel and energy It goes beyond traditional municipal waste including energy recovery from various industrial wastewater and biomass Topics include biomass pretreatment metabolic pathways anaerobic reactor design product recovery and conversion technology applications Essential information is provided and individual chapters are dedicated to each topic The book assists academicians postgraduate students biochemical engineers environmental engineers analysts chemical engineers and industrial entrepreneurs in acquiring the skills needed for real time implementation of anaerobic digestion technologies

Life Cycle Assessment of Renewable Energy Sources Anoop Singh, Deepak Pant, Stig Irving Olsen, 2013-09-02 Governments are setting challenging targets to increase the production of energy and transport fuel from sustainable sources The emphasis is increasingly on renewable sources including wind solar geothermal biomass based biofuel photovoltaics or energy recovery from waste What are the environmental consequences of adopting these other sources How do these various sources compare to each other Life Cycle Assessment of Renewable Energy Sources tries to answer these questions based on the universally adopted method of Life Cycle Assessment LCA This book introduces the concept and importance of LCA in the framework of renewable energy sources and discusses the key issues in conducting their LCA This is followed by an in depth discussion of LCA for some of the most common bioenergy sources such as agricultural production systems for biogas and bioethanol biogas from grass biodiesel from palm oil biodiesel from used cooking oil and animal fat Jatropha biodiesel lignocellulosic bioethanol ethanol from cassava and sugarcane molasses residential photovoltaic systems wind energy microalgal biodiesel biohydrogen and biomethane Through real examples the versatility of LCA is well emphasized Written by experts all over the globe the book is a cornucopia of information on LCA of bioenergy systems and provides a platform for stimulation of new ideas and thoughts The book is targeted at practitioners of LCA and will become a useful tool for researchers working on different aspects of

bioenergy **Biohydrogen Production: Sustainability of Current Technology and Future Perspective** Anoop Singh, Dheeraj Rathore, 2016-08-22 Increase in green renewable and sustainable energy demand due to higher environmental impacts e.g. Greenhouse gases emissions climate change etc on consumption of fossil fuel resource put down an extra pressure on government researchers and industrialists Among several available biofuel options biohydrogen is considered as one of the best environmentally clean fuel and a strong candidate to fulfil the future demand of sustainable energy resource Although biohydrogen production technology and its use as a fuel is still in infancy stage Selection of most sustainable production pathway increase in production upto industrial scale and cost efficiency are some issue still persist with the biohydrogen research Biohydrogen Production Sustainability of Current Technology and Future Perspective is giving an insight for the sustainable production of biohydrogen at industrial scale The process of biohydrogen production is complex and to opt the best suited production system for industrial scale is a frantic task This book will provide an in depth information on all available technologies for biohydrogen production and feedstock options to choose upon This book is also providing information on present status of the research in the field and possibility to change future fuel economy in to biohydrogen economy Experts views provided in the chapters by renowned researchers from all over the globe in the field of biohydrogen research made this book a cornucopia of present research and future perspective of biohydrogen This book is targeted at the researchers working on biohydrogen as well as the bioenergy scientist planning to move towards biohydrogen research This book will provide a platform for motivation of researchers and industrialists for innovative ideas and thoughts to bring biohydrogen production at industrial scale **Production of Biofuels and Chemicals from Sustainable Recycling of Organic Solid Waste** Zhen Fang, Richard L. Smith Jr., Lujiang Xu, 2022-05-18 This book covers sustainable recycling processes e.g. physical biological chemical and thermo chemical of multiple organic solid wastes provides methods for material recycle of wastes into value added products including fuels and commodity chemicals that are able to be directly applied to promote manufacturing processes Aimed at improving the awareness of effective conversion protocols and for developing innovative biomass conversion processes this text was conceived as a collection of studies on state of art techniques and know how for production of biofuels and chemicals from sustainable recycling of organic solid wastes Topics in the text are discussed in terms of addressing recent advances assessing and highlighting promising new methods or new technological strategies and direct conversion of organic solid wastes to process feeds Highly recognized authorities experts and professionals have contributed individual chapters in selected areas to cover the overall topic in a comprehensive manner **Waste-to-Resource System Design for Low-Carbon Circular Economy** Siming You, 2022-02-01 Waste to Resource System Design for Low Carbon Circular Economy equips the user with the necessary knowledge to carry out the preliminary design and optimization of economically viable and environmentally friendly waste to resource systems This book covers the state of the art development of technologies and processes in terms of six types of bioresources i.e. energy biohydrogen

biomethane bioethanol biodiesel and biochar that are recoverable from waste The focused technologies and processes such as anaerobic digestion fermentation pyrolysis gasification and transesterification are being widely applied or have the potential to be used towards sustainable waste management It also covers the methods needed for the design and optimization of waste to resource systems i e multiobjective optimization cost benefit analysis and life cycle assessment as well as systematic and representative databases on the parameters of the processes costs and the advantages and disadvantages of technologies Finally the book adopts a problem based method to facilitate audiences to quickly gain the knowledge and skill of designing and optimizing waste to resource systems Includes an up to date understanding of the fundamentals and mechanisms of promising waste to resource technologies and processes Describes the methods that are needed for the design and optimization of waste to resource systems i e multiobjective optimization cost benefit analysis and life cycle assessment Provides systematic and representative databases on the parameters of the processes costs and advantages and disadvantages of different waste to resource systems Covers different types of waste to resource technologies categorized into waste to energy waste to biohydrogen waste to biomethane waste to bioethanol waste to biodiesel and waste to biochar

Biogas Meisam Tabatabaei, Hossein Ghanavati, 2018-04-19 This book presents the state of the art in biogas production using anaerobic digestion technology with an emphasis on waste utilization valorization Offering a comprehensive reference guide to biogas production from different waste streams it covers various aspects of anaerobic digestion technology from the basics i e microbiological aspects to prominent parameters governing biogas production systems as well as major principles of their operation analysis process control and troubleshooting Written and edited by internationally recognized experts in the field of biogas production from both academia and industry it provides in depth and cutting edge information on central developments in the field In addition it discusses and reviews major issues affecting biogas production including the type of feedstock pretreatment techniques production systems design and fabrication of biogas plants as well as biogas purification and upgrading technologies *Biogas Fundamentals Process and Operation* also addresses the application of advanced environmental and energy evaluation tools including life cycle assessment LCA exergy techno economics and modeling techniques This book is intended for all researchers practitioners and students who are interested in the current trends and future prospects of biogas production technologies

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