

Anaerobic Biotechnology for Bioenergy Production

PRINCIPLES AND APPLICATIONS

Samir Kumar Khanal



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Anaerobic Biotechnology For Bioenergy Production Principles And Applications

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Anaerobic Biotechnology for Bioenergy Production Samir Kumar Khanal, 2011-11-18 Anaerobic biotechnology is a cost effective and sustainable means of treating waste and wastewaters that couples treatment processes with the reclamation of useful by products and renewable biofuels This means of treating municipal agricultural and industrial wastes allows waste products to be converted to value added products such as biofuels biofertilizers and other chemicals Anaerobic Biotechnology for Bioenergy Production Principles and Applications provides the reader with basic principles of anaerobic processes alongside practical uses of anaerobic biotechnology options This book will be a valuable reference to any professional currently considering or working with anaerobic biotechnology options

Anaerobic Biotechnology for Bioenergy Production Samir Kumar Khanal, 2018-11-09 The second edition of Anaerobic Biotechnology for Bioenergy Production is a major revision and restructuring of the first edition including both new developments in the field since publication of the first edition new chapters and updates to existing material Now comprised of 21 chapters the content is freshly arranged to provide continuity and increased readability Parts I and II cover the basic concepts and applications of anaerobic biotechnology followed by new chapters focusing on recent developments and concepts which have gained greater importance since publication of the first edition Examples and case studies are used throughout the book emphasizing the latest developments in the field demonstrating the applications of anaerobic biotechnology to cope with emerging issues of sustainability and climate change Anaerobic Biotechnology for Bioenergy Production Principles and Applications Second Edition is a stand alone book on anaerobic biotechnology for bioenergy production and will be a valuable tool for researchers instructors decision makers practicing professionals and others interested in the bioenergy field The book can also serve as a textbook for senior undergraduate and graduate students as well as an important reference for consulting engineers

Biofuels from Agricultural Wastes and Byproducts Hans P. Blaschek, Thaddeus C. Ezeji, Jürgen Scheffran, 2010-09-07 Traditional agriculture and emerging biofuels technology produce a number of wastes and by products ranging from corn fiber and glycerin to animal manure that have the potential to serve as the basis for additional sources of bioenergy that includes both liquid biofuels and biogas Biofuels from Agricultural Wastes and Byproducts is the first book to focus solely on the production of biofuels primarily from agricultural waste and by products The book is divided roughly into two sections The first section looks at liquid biofuel production from agricultural byproducts densification of agricultural residues and the delivery from farm to processing plant of waste and byproducts for use in biofuel production The second section focuses on anaerobic digestion of food and animal wastes microbial diversity molecular and biochemical aspects of methanogenesis Together these sections solidify Biofuels from Agricultural Wastes and Byproducts as a definitive source of information on the use of agricultural waste and by products in biofuel production

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.

BioEnergy and BioChemicals Production from Biomass and Residual Resources Dimitar Karakashev, Yifeng Zhang, 2019-02-18. This book is a printed edition of the Special Issue BioEnergy and BioChemicals Production from Biomass and Residual Resources that was published in *Energies*.

Biotechnology For Sustainable Energy And Products Prakash Kumar Sarangi, Sonil Nanda, 2019-10-10. The apprehensions relating to global warming, climate change and increasing energy demands have led to significant research for the development of sustainable energy and products from biomass by utilizing modern biotechnological tools. This book is an innovative collection of 14 chapters broadly focussing on biofuels, biomaterials, biopolymers and other industrially relevant commodities produced from agricultural biomass, forest residues, algae, food processing wastes and other biogenic refuse. The book aims to serve as a reference book for academic and industrial researchers in finding new pathways to link food security and energy demands with the help of novel biotechnological interventions. This book highlights state-of-the-art aspects based on biotechnology involved in transportation sector, food industry, agriculture, biorefining and material science.

Bioenergy Yebo Li, Samir Kumar Khanal, 2016-09-15. BIOENERGY PRINCIPLES AND APPLICATIONS. BIOENERGY PRINCIPLES AND APPLICATIONS. With growing concerns over climate change and energy insecurity coupled with dwindling reserves of fossil energy resources, there is a growing search for alternative renewable energy resources. Energy derived from renewable bioresources such as biomass, energy crops, agri- and forest residues, algae and biowastes has received significant attention in recent years. With the growing interest in bioenergy, there has been increasing demand for a broad-ranging introductory textbook that provides an essential overview of this very subject to students in the field. *Bioenergy Principles and Applications* offers an invaluable introduction to both fundamental and applied aspects of bioenergy feedstocks and their processing as well as lifecycle and techno-economic analyses and policies as applied to bioenergy. *Bioenergy Principles and Applications* provides readers with foundational information on first, second and third generation bioenergy, ranging from plant structure, carbohydrate chemistry, mass and energy balance, thermodynamics and reaction kinetics to feedstock production, logistics, conversion technologies, biorefinery lifecycle and techno-economic analyses and government policies. This textbook gives

students and professionals an incomparable overview of the rapidly growing field of bioenergy Bioenergy Principles and Applications will be an essential resource for students engineers researchers and industry personnel interested in and working in the bioenergy field

Anaerobic Digestion Processes Nigel Horan, Abu Zahrim Yaser, Newati Wid, 2018-04-18 This book presents new application processes in the context of anaerobic digestion AD such as phosphorus recovery microbial fuel cells MFCs and seaweed digestion In addition it introduces a new technique for the modeling and optimization of AD processes Chapters 1 and 2 review AD as a technique for converting a range of organic wastes into biogas while Chapter 3 discusses the recovery of phosphorus from anaerobically digested liquor Chapters 4 and 5 focus on new techniques for modeling and optimizing AD Chapters 6 and 7 then describe the state of the art in AD effluent treatment The book's final three chapters focus on more recent developments including microbial fuel cells MFCs Chapter 8 seaweed production Chapter 9 and enzyme technologies Chapter 10

Current Developments in Biotechnology and Bioengineering Xuan-Thanh Bui, Dinh Duc Nguyen, Phuoc-Dan Nguyen, Huu Hao Ngo, Ashok Pandey, 2022-08-19 Advances in Biological Wastewater Treatment Systems covers different recent advanced technologies including green technologies for biological wastewater treatment and wastewater reuse The technologies involve novel biological processes and or modified processes coupled with nano materials for improving the performance of the existing treatment processes The book also describes treatment strategies for the current pollution from complex organic matter nutrients toxic substances micro plastics and emerging micro pollutants in different water resources The treatment processes describe the recent developed technologies for wastewater treatment and reuse such as biological nutrient removal bioreactors photobioreactors membrane bioreactors wetlands algae bacteria process natural treatments integrated hybrid bio systems etc The novel bio systems include aerobic anaerobic facultative operation modes with various of types of microorganisms Provides updated information on biological nutrient removal from wastewater Includes anaerobic and aerobic wastewater treatment processes Provides state of art information on design and operation of novel systems including membrane bioreactors Describes hybrid treatment processes

Biomolecular Engineering Solutions for Renewable Specialty Chemicals R. Navanietha Krishnaraj, Rajesh K. Sani, 2021-11-11 Discover biomolecular engineering technologies for the production of biofuels pharmaceuticals organic and amino acids vitamins biopolymers surfactants detergents and enzymes In Biomolecular Engineering Solutions for Renewable Specialty Chemicals distinguished researchers and editors Drs R Navanietha Krishnaraj and Rajesh K Sani deliver a collection of insightful resources on advanced technologies in the synthesis and purification of value added compounds Readers will discover new technologies that assist in the commercialization of the production of value added products The editors also include resources that offer strategies for overcoming current limitations in biochemical synthesis including purification The articles within cover topics like the rewiring of anaerobic microbial processes for methane and hythane production the extremophilic bioprocessing of wastes to biofuels reverse methanogenesis of methane to biopolymers and

value added products and more The book presents advanced concepts and biomolecular engineering technologies for the production of high value low volume products like therapeutic molecules and describes methods for improving microbes and enzymes using protein engineering metabolic engineering and systems biology approaches for converting wastes Readers will also discover A thorough introduction to engineered microorganisms for the production of biocommodities and microbial production of vanillin from ferulic acid Explorations of antibiotic trends in microbial therapy including current approaches and future prospects as well as fermentation strategies in the food and beverage industry Practical discussions of bioactive oligosaccharides including their production characterization and applications In depth treatments of biopolymers including a retrospective analysis in the facets of biomedical engineering Perfect for researchers and practicing professionals in the areas of environmental and industrial biotechnology biomedicine and the biological sciences Biomolecular Engineering Solutions for Renewable Specialty Chemicals is also an invaluable resource for students taking courses involving biorefineries biovalorization industrial biotechnology and environmental biotechnology

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