

Om V. Singh
Steven P. Harvey
Editors

Sustainable Biotechnology

Sources of Renewable Energy



Springer

Sustainable Biotechnology Sources Of Renewable Energy

Marcel A. Müller



Sustainable Biotechnology Sources Of Renewable Energy:

Sustainable Biotechnology Om V. Singh, Steven P. Harvey, 2009-11-25 Sustainable Biotechnology Sources of Renewable Energy draws on the vast body of knowledge about renewable resources for biofuel research with the aim to bridge the technology gap and focus on critical aspects of lignocellulosic biomolecules and the respective mechanisms regulating their bioconversion to liquid fuels and other value added products This book is a collection of outstanding research reports and reviews elucidating several broad ranging areas of progress and challenges in the utilization of sustainable resources of renewable energy especially in biofuels

Current Developments in Biotechnology and Bioengineering Sunita Varjani, Ashok Pandey, Edgard Gnansounou, Samir Kumar Khanal, Sindhu Raveendran, 2020-01-23 Current Developments in Biotechnology and Bioengineering Resource Recovery from Wastes includes the latest and innovative research and technological developments in the biotechnology and bioengineering pertaining to various resource s recovery from wastes The contents are organized into two broader sections covering resource recovery from industrial wastewater and resource recovery from solid wastes Sections cover energy bioproducts nutrients municipal food wastes electronic wastes agricultural waste and others The state of the art situation potential advantages and limitations are also provided along with strategies to overcome limitations This book is a useful guide into research demands in solid and liquid waste treatment and management for environmental economic sustainability Provides state of art information and applications on microbiological and biotechnological interventions for resource recovery Covers municipal food wastes electronic wastes and agricultural wastes Reviews current information relating to bioremediation Contains recent information clearly illustrated with tables figures and pictures Outlines different technological and biological aspects of resource recovery from industrial waste and effluents

Current Developments in Biotechnology and Bioengineering Mohammad Taherzadeh, Jorge Ferreira, Ashok Pandey, 2022-11-18 Filamentous Fungi Biorefinery the latest release in the Current Developments in Biotechnology and Bioengineering series builds on knowledge on the classification of filamentous fungi and presence and roles played in ecosystems The importance of filamentous fungi is then further corroborated through a description of their present applications in biotechnological processes Knowledge on fungal biology is extended through discussion on structure and composition together with a description of growth potentialities of filamentous fungi in on a wide range of substrates In addition the morphology of filamentous fungi is then described and its implications during integration in industrial processes is discussed The book then provides an overview on the use of filamentous fungi for the production of a wide range of value added products including feed and food products alcohols organic acids pigments enzymes antibiotics and biopolymers All provided state of arts are extended to a description of the present degree of application of filamentous fungi towards the production of those products using low value substrates identification of research gaps and proposes future research avenues Presents the first book dedicated to the use of filamentous fungi for process development within

waste management Discusses the transfer of research knowledge into industrial processes and marketable products Includes industrial applications of filamentous fungi towards valorization of low value substrates Provides up to date knowledge on research and application fields that can benefit from the integration of filamentous fungi Environmental Biotechnology Vol. 1 K. M. Gothandam, Shivendu Ranjan, Nandita Dasgupta, Eric Lichtfouse, 2020-05-06 This book provides the information on the application of nanotechnology in cleaning wastewater and the impact of microbial ecosystem to solve environmental problems has been critically reviewed in the chapters It also gives detailed reviews about the conversion of wastewater nutrients into a biofertilizer using microalgae as well as the applications of Biochar for heavy metal remediation from water Most importantly this book contains critical review on microbial fuel cells and highlights the emerging risks of bioplastics on the aquatic ecosystem Microbial Biotechnology Rajesh Arora, 2012 Human actions across the past few centuries have led to a depletion of the world's natural energy sources as well as large scale environmental degradation In the context of these current global issues this book covers the latest research on the application and use of microbes in topical areas such as bioremediation and biofuels With chapters covering environmental clean up microbial fuel cells and biohydrogen it provides a comprehensive discussion of the latest developments in the field of microbe utilization *Innovations in the Global Biogas industry* Tonderayi S Matambo, Riann Christian, 2024-11-28 *Innovations in the Global Biogas Industry* Applications of Green Principles critically reviews the whole biogas supply chain from substrates to upgraded biogas The book evaluates the application of green principles at each stage of biogas production and combines this with case studies and a review of the latest technological advances to produce a comprehensive assessment of the current state of the biogas industry The first three sections of the book guide the reader through the whole supply chain of biogas production from feedstock and waste management to process design plant design operation optimization and end products The sustainability of biogas industry operations is then addressed in depth through a lifecycle assessment alongside the techno economics and safety considerations Each section considers small medium and large scale biogas plant related developments and how green principles are applied at each scale Finally the critical element of biogas industry stakeholders is explored which discusses financing mechanisms policies and regulations global markets and governance issues relating to the biogas sector Presents recent innovations in the biogas industry with an emphasis on the sustainability of anaerobic digestion applications Analyzes anaerobic digestion from various angles from feedstock management to the integration of green and sustainability principles in biogas applications Assesses the whole supply chain of biogas production including plant design and operation substrate to product issues as well as techno economics and safety considerations Includes small medium and large scale biogas plant related developments Addresses the topic of stakeholder issues in the biogas industry Sustainable Biotechnology- Enzymatic Resources of Renewable Energy Om V. Singh, Anuj K. Chandel, 2018-08-25 Nature offers abundant renewable resources that can be used to partially replace fossil fuels and commodity chemicals but issues of cost technology readiness

levels and compatibility with existing distribution networks remain huge challenges Cellulosic ethanol and biodiesel are the most immediately obvious target fuels with hydrogen methane and butanol as other potentially viable products This book continues to bridge the technology gap and focus on critical aspects of lignocellulosic biomolecules and the respective mechanisms regulating their bioconversion to liquid fuels into energy and value added products of industrial significance This book is a collection of reviews elucidating several broad ranging areas of progress and challenges in the utilization of sustainable resources of renewable energy especially in biofuels This book comes just at a time when government and industries are accelerating their efforts in the exploration of alternative energy resources with expectations of the establishment of long term sustainable alternatives to petroleum based liquid fuels Apart from liquid fuel this book also emphasizes the use of sustainable resources for value added products which may help in revitalizing the biotechnology industry at a broader scale This book also provides a comprehensive review of basic literature and advance research methodologies to graduate students studying environmental microbiology chemical engineering bio economy and microbial biotechnology

Agro-waste to Microbe Assisted Value Added Product: Challenges and Future Prospects Shyama Prasad Saha,Deepika Mazumdar,Swarnendu Roy,Piyush Mathur,2024-05-31 This book mainly focuses on the recent trends and sustainability challenges in the valorization of agro wastes emphasizing the role of microbial biotechnology Processing of various kinds of agro wastes such as lignocellulosic materials food industry wastes dairy wastes etc into several bioactive compounds enzymes biofuels biogas biofertilizers nutraceuticals nanoparticles etc will be discussed elaborately in more detail This book investigates the theoretical and practical aspects of modern research regarding the valorization of agro wastes through microbial technology Moreover the role of valorization research in circular bio economy will also be addressed in this book

Liquid, Gaseous and Solid Biofuels Zhen Fang,2013-03-20 This book offers reviews of state of the art conversion techniques for biofuels It focuses on the latest development for the production of liquid and gaseous biofuels that should be of interest to the chemical scientists and technologists

Environmental Sustainability and Biotechnology: Opportunities and Challenges Naveen Kumar Arora,Piyush Pandey,Jitendra Mishra,2025-08-18 This book assembles a global perspective on the challenges and opportunities to achieve environmental sustainability through biotechnology The book highlights agenda for utilizing scientific knowledge including the use of beneficial microbes and biotechnological approaches for combating key global issues related to environmental sustainability Additionally to evolve adaptive processes and mitigation approaches certain novel insights on resilience mechanisms sustainability principles and bio inputs are discussed The book also showcases advanced technologies in the area of biotechnology including use of microbes in biodegradation bioremediation sustainable agriculture and food security This book is valuable for environmentalists ecologists policy makers and industrial entrepreneurs The book is also a reference source for researchers undergraduate and graduate students of the environment science and biotechnology fields

Microbial Biotechnology for Bioenergy Naga Raju Maddela,Sesan

Abiodun Aransiola, Chizoba I. Ezugwu, Lizziane Kretli Winkelstroter Eller, Laura Scalvenzi, Fangang Meng, 2024-03-08

Microbial Biotechnology for Bioenergy presents the new and emerging biotechnological and microbiological approaches in bioenergy and their economic social and environmental implications. Using the latest global data and statistics, it analyses how bioenergy technology improves quality of life by reducing air and water pollution and mitigates energy dependence by creating renewable resources in local communities. The book is formed of three sections. Section 1 addresses the Sources, Challenges, and Environmental Views of Bioenergy and includes an overview of bioenergy global statistics and projections for future bioenergy development, the role of biotechnology and bioprocesses in bioenergy feedstock sources, challenges, decarbonisation, and emerging innovations and technologies. Section 2, Yesterday, Today, and Tomorrow, Innovations of Bioenergy examines the vast topics of biotechnology and microbiology for bioenergy, reviewing both the present day state of the art and future potential. Readers will find dedicated chapters on bioconversion of biomass energy and biological residues, the role of microbes, the potential of organic waste to provide bioenergy, the biotechnology of biofuels such as bioethanol, biodiesel, and biohydrogen, the sustainability of cellulosic ethanol energy and artificial photosynthesis, Power to X, and integrating energy storage innovations and the sustainability of microbial fuel cells. Finally, Section 3 explores the policies and environmental aspects of bioenergy, providing a global perspective on the current and future impact of bioenergy, including global projections based on present day global statistics. *Microbial Biotechnology for Bioenergy* is a valuable reference for biotechnologists, environmental engineers, and microbiologists interested in bioenergy and includes explanations of the fundamentals and key concepts to ensure it is accessible to students as well as researchers and professionals. Critically reviews past, present, and future bioenergy technologies, including global statistics, policies, and emerging approaches. Highlights opportunities to improve quality of life and mitigate energy dependence, reducing air/water pollution and creating renewable resources in local communities. Explores environmental benefits of incorporating microbial remediation into bioenergy production.

Lignocellulosic Biomass Refining for Second Generation Biofuel Production Ponnusami V., Kiran Babu Uppuluri, Rangabhashiyam S., Pardeep Singh, 2023-07-14. This book compiles research aspects of second generation 2G biofuel production derived specifically from lignocellulose biomass using biorefinery methods. It focuses on the valorization of different sources of 2G biofuels and their relative importance. The constituents of lignocelluloses and their potential characteristics, different methods of treating lignocellulose, various means of lignocellulose bioconversion, and biofuel production strategies are discussed. Features: Describes technological advancements for bioethanol production from lignocellulosic waste. Provides the roadmap for the production and utilization of 2G biofuels. Introduces the strategic role of metabolic engineering in the development of 2G biofuels. Discusses technological advancements, life cycle assessment, and prospects. Explores the novel potential lignocellulosic biomass for 2G biofuels. This book is aimed at researchers and professionals in renewable energy, biofuel, bioethanol, lignocellulose conversion, fermentation, and chemical engineering.

Extremophiles and Their Applications in Medical Processes Prasanti Babu, Anuj K. Chandel, Om V. Singh, 2014-10-29

Extremophiles are known to thrive under harsh environmental conditions. Many extremophilic bio products are already used as life saving drugs. Recent technological advancements of systems biology have opened the door to explore these organisms anew as sources of products that might prove useful in clinical, environmental and drug development. **Industrial**

Wastewater Treatment, Recycling and Reuse Vivek V. Ranade, Vinay M Bhandari, 2014-07-21 Industrial Wastewater

Treatment Recycling and Reuse is an accessible reference to assist you when handling wastewater treatment and recycling. It features an instructive compilation of methodologies including advanced physico chemical methods and biological methods of treatment. It focuses on recent industry practices and preferences along with newer methodologies for energy generation through waste. The book is based on a workshop run by the Indus MAGIC program of CSIR India. It covers advanced processes in industrial wastewater treatment applications and feasibility analysis and explores the process intensification approach as well as implications for industrial applications. Techno economic feasibility evaluation is addressed along with a comparison of different approaches illustrated by specific case studies. Industrial Wastewater Treatment Recycling and Reuse introduces you to the subject with specific reference to problems currently being experienced in different industry sectors including the petroleum industry, the fine chemical industry and the specialty chemicals manufacturing sector. Provides practical solutions for the treatment and recycling of industrial wastewater via case studies. Instructive articles from expert authors give a concise overview of different physico chemical and biological methods of treatment, cost to benefit analysis and process comparison. Supplies you with the relevant information to make quick process decisions. **Biotechnology in**

the generation of biofuels Maria del Pilar Rodriguez-Torres, Claudia Martinez-Alonso, 2023-02-08 This book approaches biofuels from a new biotechnological perspective with the aim of equipping researchers with a thorough up to date understanding of biofuel research and related technologies. Topics include biomethane, bioethanol, biobutanol, biomass hydrolysis, bio oil, microbiology and many more. Biofuel research has evolved mechanisms to advance their utilization and their application in our system. The chapters will provide concise and up to date information to aid our understanding of biotechnology related implications of biofuels development and its advancements. Readers in the areas of bioengineering, sustainability, renewable energies and biotechnology will find this work useful to widen their knowledge and perspectives on biofuels.

Green Nanobiotechnology Atul Thakur, Preeti Thakur, Deepa Suhag, S M Paul Khurana, 2024-12-26 This book provides a comprehensive exploration of green nanotechnology covering principles, applications and ethical considerations. Green Nanobiotechnology begins with an introductory exploration of nanotechnology followed by in depth discussions on the synthesis of ozone friendly nanomaterials and the emerging practice of green synthesis. It delves into the diverse applications of green nanoparticles spanning biomedical applications, tissue engineering, biosensors, antimicrobials and vaccine development. It explores applications of nanotechnology in environmental sciences including bioremediation, microengineered

ceramics for environmental protection and the modification of advanced nano polymer composites The environmental fate and ecotoxicological implications of nanomaterials are thoroughly examined followed by discussions on the energy saving potential and sustainable fuel development in the realm of green nanotechnology The book concludes with a focus on responsible and ethical considerations addressing the legal socio economic and ethical impacts of nanotechnology making it an important resource for researchers academics and professionals in nanobiotechnology and biomedical sciences

Bioenergy and Biofuels Ozcan Konur,2018-01-02 This book aims to inform readers about the recent developments in bioenergy and biofuels covering current issues from an interdisciplinary approach It will also feature coverage of anticipated future trends related to each particular biofuel Chapters will consist of original research presented by world class experts in their respective fields A number of interdisciplinary areas will be incorporated such as Energy Fuels Biotechnology Genomics Economics Optimization Chemical Engineering Mechanical Engineering and Algae Science Examples will relate to a matrix of biofuel and energy types such as bioethanol biobutanol and biomethane

Microalgal Biotechnology Ajam Shekh,Peer Schenk,R Sarada,2021-05-10 Microalgae are a group of single celled photosynthetic microorganisms They are of great commercial interest as they are capable of producing biomass with a vast array of biochemical using sunlight CO₂ and various other naturally occurring nutrients Correctly utilised they have the potential to provide sustainable supply of commercially relevant biochemicals biofuels nutraceuticals food and feed supplements The field of microalgal biotechnology is a fast paced area of research with technologies coming ever closer to commercial viability Microalgal Biotechnology consolidates the latest research in the field together with a look at market potential and policy considerations Highlighting the huge potential of microalgae as commercial commodities it covers progress on various fronts including bio refinery and its technological challenges genetic engineering biosafety and regulatory issues open and closed photo bioreactors for biomass production market space and sustainability for algal products This book is a useful resource for researchers academicians postgraduate students industries policy makers and anyone interested in the status and future possibilities of microalgae commercialisation

Multidisciplinary Research in Arts, Science & Commerce (Volume-12) Chief Editor- Biplab Auddya, Editor- Dr. Rajendran L, Dr. Sarika Chhabria Talreja, Dr. Richi Simon , Dr. Thenmozhi P., Dr. Pragyasa Harshendu Upadhyaya, Abhendra Pratap Singh,2024-11-12

Encyclopedia of Green Materials Chinnappan Baskar,Seeram Ramakrishna,Angela Daniela La Rosa,2024-12-26 Encyclopedia of Green Materials covers comprehensive overview recent research and development of Green Materials and Green Nanomaterials and their applications in all areas including electronics sensors textiles biomedical energy and energy storage building constructions and interiors design automotive green plastic manufacturing food packing membrane technology wastewater treatment rubber technology and tire manufacturing The contents focus on sustainable development renewable circular economy Chemistry 4 0 Chemistry through innovation in transforming the world green chemistry and green engineering upcycling and recycling

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