



RSC Green Chemistry

Chemical Biotechnology and Bioengineering

Xuhong Qian, Zhenjiang Zhao, Yufang Xu
and Jian-He Xu



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L E Macaskie, D J Sapsford, W M Mayes



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Chemical Biotechnology and Bioengineering Xuhong Qian,Zhenjiang Zhao,Yufang Xu,Jian-He Xu,Y.-H. Zhang,Jingyan Zhang,Yang-Chun Yong,Fengxian Hu,2015-05-22 In biotechnology and bioengineering small molecules can be used to increase the efficiency reduce the cost and damage to the environment of certain bioprocesses This book introduces readers to the important field of chemically promoted biotechnology and bioengineering and presents the theory behind the biotechnology of enzymatic reactions and how they can be chemically enhanced The book covers chemical modulators for enzymatic reactions chemically promoted biotechnology in plant cell cultures chemically promoted biotechnology for plant protection and future prospects for the field Knowledge gained allows both chemists to make use of biotechnology to solve chemical problems in an environmentally friendly way and biologists to make use of chemistry to increase biotechnological efficiency This book is useful for scientists in a broad range of disciplines including agricultural chemistry pesticide science medicinal chemistry biochemistry bio organic chemistry cell and molecular biology Students and researchers in both academia and industry will find it a useful handbook

Alternative Energy Sources for Green Chemistry Georgios Stefanidis,Andrzej Stankiewicz,2016 Discussing the broad impact of alternative energy transfer technologies on reactions separations and materials synthesis for industrialists academics and postgraduates in alternative energy based processing

Biotechnology for Pulp and Paper Processing Pratima Bajpai,2018-02-14 The book provides the most up to date information available on various biotechnological processes useful in the pulp and paper industry The first edition was published in 2011 covering a specific biotechnological process or technique discussing the advantages limitations and prospects of the most important and popular processes used in the industry Many new developments have taken place in the last five years warranting a second edition on this topic The new edition contains about 35% new material covering topics in Laccase application in fibreboard biotechnology in forestry pectinases in papermaking stickies control with pectinase products from hemicelluloses value added products from biorefinery lignin use of enzymes in mechanical pulping

Bioethanol Fuel Production Processes. II Ozcan Konur,2023-12-22 This book provides an overview of the research on production processes for bioethanol fuels in general hydrolysis of the pretreated biomass for bioethanol production microbial fermentation of hydrolysates and substrates with yeasts for bioethanol production and separation and distillation of bioethanol fuels from the fermentation broth complementing the research on biomass pretreatments presented in the first volume It presents an overview of the research on biomass hydrolysis in general wood hydrolysis straw hydrolysis and cellulose hydrolysis for bioethanol fuel production in the first section for biomass hydrolysis It provides an overview of the research on microbial hydrolysate fermentation for bioethanol production in general alternative fermentation processes for bioethanol fuel production such as simultaneous saccharification and fermentation SSF and consolidated biomass processing CBP compared with the separate hydrolysis and fermentation SHF process metabolic engineering of microorganisms and

substrates for bioethanol fuel production and utilization of *Saccharomyces cerevisiae* for microbial fermentation of hydrolysates for bioethanol fuel production in the second section for hydrolysate fermentation It provides an overview of the research on the bioethanol fuel separation from the fermentation broth in the last section This book is a valuable resource for the stakeholders primarily in the research fields of energy and fuels chemical engineering environmental science and engineering biotechnology microbiology chemistry physics mechanical engineering agricultural sciences food science and engineering materials science biochemistry genetics molecular biology plant sciences water resources economics business management transportations science and technology ecology public environmental and occupational health social sciences toxicology multidisciplinary sciences and humanities among others *Bioethanol Fuel Production Processes. I* Ozcan Konur,2023-12-22 This book presents research on biomass pretreatments which are a fundamental part of bioethanol fuel production to make biomass more accessible This book also includes an introductory section on the bioethanol fuels Bioethanol Fuel Production Processes I Biomass Pretreatments is the first volume in the Handbook of Bioethanol Fuels Six Volume Set The primary pretreatments at the macro level are the biological chemical hydrothermal and mechanical pretreatments of the biomass It also has an introductory section on the biomass pretreatments at large for bioethanol fuel production The major pretreatments at the micro level are the enzymatic and fungal pretreatments of the biomass as the biological pretreatments acid alkaline ionic liquid and organic solvent pretreatment pretreatments of the biomass as the chemical pretreatments steam explosion and liquid hot water pretreatments of the biomass as the hydrothermal pretreatments and milling ultrasonic and microwave pretreatments of the biomass as the mechanical pretreatments The first volume also indicates that a wide range of pretreatments stand alone or in combination with each other fractionate the biomass to its constituents of cellulose lignin and hemicellulose and improve both sugar and bioethanol fuel yield making this bioethanol fuel more competitive in relation to crude oil and natural gas based fossil fuels This first volume is a valuable resource for the stakeholders primarily in the research fields of energy and fuels chemical engineering environmental science and engineering biotechnology microbiology chemistry physics mechanical engineering agricultural sciences food science and engineering materials science biochemistry genetics molecular biology plant sciences water resources economics business management transportation science and technology ecology public environmental and occupational health social sciences toxicology multidisciplinary sciences and humanities among others *Resource Recovery from Wastes* L E Macaskie,D J Sapsford,W M Mayes,2019-10-15 The concept of a circular economy has been gaining increasing attention in recent years Many of the sources of chemicals we have become reliant on are dwindling and the accumulation of waste products poses a serious environmental problem Recovering resources from these waste materials can reduce our dependence on less sustainable virgin feedstocks as well as reducing the quantity of material going to landfill sites Bringing together a broad range of cross disciplinary topics on resource recovery this book provides a valuable resource for those

working in circular economy research green chemistry and waste management 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 Green and Sustainable Medicinal Chemistry Louise Summerton, Helen F Sneddon, Leonie C Jones, James H Clark, 2016-03-08 Pharmaceutical manufacturing was one of the first industries to recognize the importance of green chemistry with pioneering work including green chemistry metrics and alternative solvents and reagents Today other topical factors also have to be taken into consideration such as rapidly depleting resources high energy costs and new legislation This book addresses current challenges in modern green chemical technologies and sustainability thinking It encompasses a broad range of topics covered by the CHEM21 project Europe's largest public private partnership project which aims to develop a toolbox of sustainable technologies for green chemical intermediate manufacture Divided into two sections the book first gives an overview of the key green chemistry tools guidance and considerations aimed at developing greener processes before moving on to look at cutting edge synthetic methodologies Featuring innovative research this book is an invaluable reference for chemists across academia and industry wanting to further their knowledge and understanding of this important topic

New Advances in Hydrogenation Processes Maryam Takht Ravanchi, 2017-01-25 Hydrogen is one of the abundant elements on earth majorly in the form of water H_2O and mainly as hydrogen gas H_2 Catalytic hydrogenation is a key reaction that has versatile applications in different industries The main objective of this book is to bring together various applications of hydrogenation through the perspective of leading researchers in the field This book is intended to be used as a graduate level text book or as a practical guide for industrial engineers *Register of Consulting Scientists, Contract Research*

Organisations, and Other Scientific and Technical Services D. J. B. Copp, 1984 Industrial Biorefineries and White Biotechnology Ashok Pandey, Rainer Höfer, Mohammad Taherzadeh, Madhavan Nampoothiri, Christian Larroche, 2015-05-08

Industrial Biorefineries and White Biotechnology provides a comprehensive look at the increasing focus on developing the processes and technologies needed for the conversion of biomass to liquid and gaseous fuels and chemicals in particular the development of low cost technologies During the last 3 4 years there have been scientific and technological developments in the area this book represents the most updated information and technological perspective on the topic Provides information on the most advanced and innovative pretreatment processes and technologies for biomass Covers information on lignocellulosic and algal biomass to work on the principles of biorefinery Provides information on integration of processes for the pretreatment of biomass Designed as a textbook for both graduate students and researchers Agrindex , 1984

Transition Towards a Sustainable Biobased Economy Piergiuseppe Morone, James H Clark, 2020-02-26 Globally we are being confronted by the depletion of many natural resources as a result of unsustainable use and increasing global population Although the debate on the bioeconomy has gained momentum in recent decades the interest in certifications and standards for biobased products is still weak This book aims to fill this gap by promoting a holistic approach which covers environmental social and economic sustainability aspects and pushes forward the development of a circular biobased economy This book promotes the development of sustainability schemes including standards labels and certifications for the assessment of biobased products which are fundamental to the establishment of a cutting edge sustainable bioeconomy Chemical related globally relevant case studies are used throughout the book The content covers a range of issues from upstream and downstream environmental techno economic and social assessment to crosscutting issues such as indirect land use change iLUC and end of life options The chapters included in this book will provide a comprehensive review of recent works on life cycle assessment LCA life cycle costing LCC and social life cycle assessment s LCA methodologies An important resource for researchers industrial professionals and policy makers involved in the bioeconomy **The British National Bibliography** Arthur James Wells, 2004 Biomaterials Rafael Luque, Chun-Ping Xu, 2016-08-22 In times of declining fossil stocks science and industry have to find alternative resources for the production of fuels and chemicals This book presents techniques for the utilization of biomass and waste as raw materials for the production of platform molecules biopolymers bioplastics and bioethanol Latest research results as well as industrial application thereof are discussed Commercializing Biobased Products Seth W. Snyder, 2016 Biobased products offer substantial economic and environmental benefits but understanding how to commercialize this requires a comprehensive look at the process including feedstocks technologies product slate supply chain policy financing and environmental impact Covering biobased products in a broad context this book examines the environmental and economic impacts compares US and EU policies explores the factors affecting financing and considers biological conversion catalytic conversion and separations By examining the process from several

critical perspectives in the supply chain this book provides chemical engineers with a better understanding of challenges opportunities risks and benefits of commercialization Who's who in Science in Europe Longman Publishing Group,1991

Green Synthetic Processes and Procedures Roberto Ballini,2019-06-28 The principles of Green Chemistry aim to improve the sustainability of chemical processes and reduce the generation of hazardous substances There has been great growth in the field over the past few years and the number of research groups working in this area is still increasing Now one of the biggest challenges is to embed the Green Chemistry ideals of safety and sustainability as standard both in industry and academia In order to do this it is important to create resources that detail different applications and approaches *Green Synthetic Processes and Procedures* brings together expert contributors from across a number of areas of green synthesis to cover a diverse array of subjects Providing a thorough overview of the current green synthetic toolbox from biocatalysis to sonochemistry this book is a useful resource for any chemist wishing to design cleaner and safer processes RSC Green Chemistry Series ,2008 Current Developments in Biotechnology and Bioengineering Rupam Kataki,Ashok Pandey,Samir Kumar Khanal,Deepak Pant,2020-07-08 *Current Developments in Biotechnology and Bioengineering Sustainable Bioresources for the Emerging Bioeconomy* outlines recent advances in bioenergy biorefinery and the bioeconomy an essential element for a 21st century bio based society The book provides information on biomass and various conversion technologies with different parameters that affect the conversion process Sections cover different bioproducts biorefinery systems energy and greenhouse gas emission balances of bioenergy and biorefinery and environmental and economic footprints of bioeconomy Finally different strategies adopted by developed and developing countries for the promotion and implementation of a bioeconomy concept for a bio based society are systematically covered The book provides comprehensive information starting from early progress to the latest trends on bioenergy biorefinery and bioeconomy with special reference to the developed and the developing countries and the linkage between bioeconomy and climate change mitigation in simple scientific language to appeal to a wider audience Includes the fundamentals and concepts of biomass and bioenergy Outlines recent technology development for biomass conversion Provides concept for different bioproducts Covers global strategies and policies on the development of bioeconomies

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