

Jpm Global Biotech Outlook 2014

Sugarcane Biotechnology: Challenges and Prospects
Biotechnology for Biofuel Production and Optimization
Microalgae
Biotechnology for Development of Biofuel and Wastewater Treatment
Handbook of Industrial Chemistry and
Biotechnology
Prospects and Challenges in Algal Biotechnology
Environmental Materials and Waste
Global Chemicals
Outlook
Occupational Outlook Handbook
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this book provides exhaustive information on several recent technologies that are employed for sugarcane improvement through biotechnology and will be of great interest to plant scientists biotechnologists molecular biologists and breeders who work on sugarcane crop topics discussed in this volume include genomics and transcriptomics transgenic sugarcane for trait improvement potential candidate promoters new strategies for transformation molecular farming sugarcane as biofuel chloroplast transformation and genome editing

biotechnology for biofuel production and optimization is the compilation of current research findings that cover the entire process of biofuels production from manipulation of genes and pathways to organisms and renewable feedstocks for efficient biofuel production as well as different cultivation techniques and process scale up considerations this book captures recent breakthroughs in the interdisciplinary areas of systems and synthetic biology metabolic engineering and bioprocess engineering for renewable cleaner sources of energy describes state of the art engineering of metabolic pathways for the production of a variety of fuel molecules discusses recent advances in synthetic biology and metabolic engineering for rational design construction evaluation of novel pathways and cell chassis covers genome engineering technologies to address complex biofuel tolerant phenotypes for enhanced biofuel production in engineered chassis presents the use of novel microorganisms and expanded substrate utilization strategies for production of targeted fuel molecules explores

biohybrid methods for harvesting bioenergy discusses bioreactor design and optimization of scale up

this book addresses microalgae which represent a very promising biomass resource for wastewater treatment and producing biofuels accordingly microalgae are also an expanding sector in biofuels and wastewater treatment as can be seen in several high profile start ups from around the globe including solix biofuels craig venter s synthetic genomics petrosun chevron corporation enn group etc in addition a number of recent studies and patent applications have confirmed the value of modern microalgae for biofuels production and wastewater treatment systems however substantial inconsistencies have been observed in terms of system boundaries scope the cultivation of microalgae and oil extraction systems production costs and economic viability cost lowering components etc moreover the downstream technologies and core principles involved in liquid fuel extraction from microalgae cells are still in their early stages and not always adequate for industrial production accordingly multilateral co operation between universities research institutes governments stakeholders and researchers is called for in order to make microalgae biofuels economical responding to this challenge the book begins with a general introduction to microalgae and the algae industry and subsequently discusses all major aspects of microalgal biotechnology from strain isolation and robust strain development to biofuel development refinement and wastewater treatment

this widely respected and frequently consulted reference work provides a wealth of information and guidance on industrial chemistry and biotechnology industries covered span the spectrum from salt and soda ash to advanced dyes chemistry the nuclear industry the rapidly evolving biotechnology industry and most recently electrochemical energy storage devices and fuel cell science and technology other topics of surpassing interest to the world at large are covered in chapters on fertilizers

and food production pesticide manufacture and use and the principles of sustainable chemical practice referred to as green chemistry finally considerable space and attention in the handbook are devoted to the subjects of safety and emergency preparedness it is worth noting that virtually all of the chapters are written by individuals who are embedded in the industries whereof they write so knowledgeably

this contributed volume presents the latest research and state of the art approaches in the study of microalgae it describes in detail technologies for the cultivation of marine freshwater and extremophilic algae as well as phototrophic biofilms cyanobacterial mats and periphytons including the media requirements and growth rates of different types of algae the second part of the book is dedicated to the biotechnological applications of algal biomass and secondary metabolites produced by these organisms and critically discusses topics such as algae based biofuels and co₂ sequestration in addition it reviews the prospects and challenges of algal bioremediation of domestic and industrial wastewaters including the use of planktonic and self immobilized algae systems in wastewater treatment explaining their merits and drawbacks lastly it highlights research methods and approaches related to the production of high value products and bioactive compounds

environmental materials and waste resource recovery and pollution prevention contains the latest information on environmental sustainability as a wide variety of natural resources are increasingly being exploited to meet the demands of a worldwide growing population and economy these raw materials cannot or can only partially be substituted by renewable resources within the next few decades as such the efficient recovery and processing of mineral and energy resources as well as recycling such resources is now of significant importance the book takes a multidisciplinary approach to fully realize the number of by products which can be remanufactured providing the foundation needed across disciplines to tackle this issue

as awareness and opportunities to recover valuable resources from process and bleed streams is gaining interest sustainable recovery of environmental materials including wastewater offers tremendous opportunity to combine profitable and sustainable production presents a state of the art guide to environmental sustainability provides an overview of the field highlighting recent and emerging issues in environmental resource recovery that cover a wide array of by products for remanufacture potential details a multidisciplinary approach to fully realize the number of by products which can be remanufactured providing the foundation needed across disciplines to tackle these global issues

the global chemicals outlook is a comprehensive and practical publication that assembles scientific technical and socio economic information on the sound management of chemicals it is targeted to decision makers in order to build capacity and to implement policy change to protect the environment and human health as such the global chemicals outlook covers three broad inter linked areas building upon the findings of existing and concurrent studies 1 trends and indicators for chemical production transport use and disposal and associated health and environment impacts 2 economic implications of these trends including costs of inaction and benefits of action on sound management of chemicals and 3 instruments and approaches for sound management of chemicals including promotion of safer alternatives and guidance to accelerate the achievement of the strategic approach to international chemicals management saicm goals by 2020

occupational outlook handbook has the most authoritative career data available compiled by the u d government and is fully updated every two years with record numbers of students graduating from college there is a need for comprehensive up to date career information related occupations included in each listing introduces readers to other jobs of possible interest

vol 25 no 1 contains the society s lincoln chapter s resource conservation glossary

the only career series to match the right job with the right personality vital information in each book includes suggested jobs in a wide range of settings from the office to the outdoors a selection of jobs with different levels of educational requirements advice on competing in hot job markets tips on transforming hobbies into job skills

sustainability is a key framework for analyzing biological systems and turfgrass is no exception it is part of a complex that encompasses turfgrass interactions with different environments and the suitability of different turfgrasses for specific environments in addition to its biological role turfgrass in the form of lawns green spaces and playing surfaces brings beneficial sociological effects to an increasingly urbanized society this book presents a comprehensive overview of current knowledge and issues in the field of turfgrass research and management including the genetics and breeding the diseases and pests and the ecology of turfgrasses and will appeal to a broad spectrum of readers

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