

Handbook Of Bioenergy Crop Plants

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as the world's population is projected to reach 10 billion or more by 2100 devastating fossil fuel shortages loom in the future unless more renewable alternatives to energy are developed bioenergy in the form of cellulosic biomass starch sugar and oils from crop plants has emerged as one of the cheaper cleaner and environmentally sustainable

this completely revised second edition includes new information on biomass in relation to climate change new coverage of vital issues including the food versus fuel debate and essential new information on second generation fuels and advances in conversion techniques the book begins with a guide to biomass accumulation harvesting transportation and storage as well as conversion technologies for biofuels this is followed by an examination of the environmental impact and economic and social dimensions including prospects for renewable energy the book then goes on to cover all the main potential energy crops

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lead to future discoveries related to the use of plants for bioenergy production it will assist in developing innovative ways of ameliorating energy problems on the horizon

ethanol as an alternative fuel is receiving a lot of attention because it addresses concerns related to dwindling oil supplies energy independence and climate change the majority of the ethanol in the us is produced from corn starch with the us department of energy s target that 30 of the fuel in the us is produced from renewable resources by 2030 the anticipated demand for corn starch will quickly exceed the current production of corn this plus the concern that less grain will become available for food and feed purposes necessitates the use of other feedstocks for the production of ethanol for the very same reasons there is increasing research activity and growing interest in many other biomass crops genetic improvement of bio energy crops focuses on the production of ethanol from lignocellulosic biomass which includes corn stover biomass from dedicated annual and perennial energy crops and trees as well as a number of important biomass crops the biomass is typically pretreated through thermochemical processing to make it more amenable to hydrolysis with cellulolytic enzymes the enzymatic hydrolysis yields monomeric sugars that can be fermented to ethanol by micro organisms while much emphasis has been placed on the optimization of thermo chemical pretreatment processes production of more efficient hydrolytic enzymes and the development of robust microbial strains relatively little effort has been dedicated to the improvement of the biomass itself

this edited book summarizes the efforts made to develop sustainable bioenergy production through different generations the topics included in the book cover information about different bioenergy crops their classification and use as biofuel agronomic practices to improve biomass yield classic breeding techniques genetic diversity current status and future perspective of bioenergy crops in the omics era it also discusses application of modern biotechnological and molecular biotechnological techniques for the improvement of bioenergy crops this having enhanced biomass and plant based products the book explores growing biofuel crops and their impact on environment bioethics and biosafety issues related to the modern approaches another important aspect is the incorporation of nanotechnology for bioenergy crops and biofuel production all book chapters are contributed renowned researchers in their respective field this is a unique book covering the bioeneragy crops in the modern omics era the book is useful for the researchers and post graduate students to guide them in the field

of bioenergy crops

bioenergy crops a sustainable means of phytoremediation comprises a unique combination of topics related to the field of phytoremediation and bioenergy production it highlights the future face of industries in phytoremediation and bioenergy production the book deals with most promising plant and alga species for biomass production and phytoremediation it deals with constructed wetlands bioremediation and microbial fuel cells with case studies of phytoremediation and bioenergy production the comprehensive knowledge on the dual aspects of hyperaccumulators in phytoremediation and bioenergy production guides graduates post graduates as well as researchers to know the latest updates in the field key features presents dual aspects of hyperaccumulators in phytoremediation and bioenergy production highlights the future face of industries in phytoremediation and bioenergy production focuses the promising candidates exploits as hyperaccumulator and biomass producers explains the role of algae and microbes in bioremediation and bioenergy production represents a comprehensive up to date analysis in the field of phytoremediation as well as bioenergy production

bioenergy and biofuels are generated from a wide variety of feedstock fuels have been converted from a wide range of sources from vegetable oils to grains and sugarcane second generation biofuels are being developed around dedicated non food energy crops such as switchgrass and miscanthus with an eye toward bioenergy sustainability bioenergy feedstocks breeding and genetics looks at advances in our understanding of the genetics and breeding practices across this diverse range of crops and provides readers with a valuable tool to improve cultivars and increase energy crop yields bioenergy feedstocks breeding and genetics opens with chapters focusing primarily on advances in the genetics and molecular biology of dedicated energy crops these chapters provide in depth coverage of new high potential feedstocks the remaining chapters provide valuable overview of breeding efforts of current feedstocks with specific attention paid to the development of bioenergy traits coverage in these chapters includes crops such as sorghum energy canes corn and other grasses and forages the final chapters explore the role of transgenics in bioenergy feedstock production and the development of low input strategies for producing bioenergy crops a timely collection of work from a global team of bioenergy researchers and crop scientists bioenergy feedstocks breeding and genetics is an essential reference on cultivar improvement of

biomass feedstock crops

the 21st century could see the switch from the fossil fuel to the biological based economy papers presented in this conference proceedings explore the questions involved

biofuel crop sustainability brings together the basic principles of agricultural sustainability and special stipulations for biofuels from the economic and ecological opportunities and challenges of sustainable biofuel crop production to the unique characteristics of particular crops which make them ideal for biofuel applications this book will be a valuable resource for researchers and professionals involved in biofuels development and production as well as agriculture industry personnel chapters focus the broad principles of resource management for ecological environmental and societal welfare the sustainability issues pertaining to several broad categories of biofuel crops as well as the economics and profitability of biofuels on both a local and international scale coverage includes topics such as utilizing waste water for field crop irrigation and algae production reliability of feedstock supply marginal lands and identifying crops with traits of significance for survival and growth on low fertility soils the development of production practices with low external inputs of fertilizer irrigation and pesticides is also covered biofuel crop sustainability will be a valuable up to date reference for all those involved in the rapidly expanding biofuels industry and sustainable agriculture research fields

cellulosic energy cropping systems presents a comprehensive overview of how cellulosic energy crops can be sustainably produced and converted to affordable energy through liquid fuels heat and electricity the book begins with an introduction to cellulosic feedstocks discussing their potential as a large scale sustainable energy source and technologies for the production of liquid fuels heat and electricity subsequent chapters examine miscanthus switchgrass sugarcane and energy cane sorghums and crop residues reviewing their phylogeny cultural practices and opportunities for genetic improvement this is followed by a detailed focus on woody crops including eucalyptus pine poplar and willow critical logistical issues associated with both herbaceous and woody feedstocks are reviewed and alternate strategies for harvesting transporting and storing cellulosic materials are also examined the final section of the book tackles the challenge of achieving long term sustainability addressing economic environmental and social factors cellulosic energy cropping systems is a valuable resource for academics

students and industry professionals working in the field of biomass cultivation and conversion bioenergy crop science and agriculture topics covered include identifying suitable cellulosic energy crops that are adapted to a wide range of climates and soils best management practices for sustainably growing harvesting storing transporting and pre processing these crops the development of integrated cellulosic energy cropping systems for supplying commercial processing plants challenges and opportunities for the long term sustainability of cellulosic energy crops this book was conceived and initiated by david i bransby professor of energy and forage crops in the department of crop soil and environmental sciences at auburn university usa for more information on the wiley series in renewable resources visit wiley.com/go/rrs

bioprospecting of plant biodiversity for industrial molecules a comprehensive collection of recent translational research on bioresource utilization and ecological sustainability bioprospecting of plant biodiversity for industrial molecules provides an up to date overview of the ongoing search for biodiverse organic compounds for use in pharmaceuticals bioceuticals agriculture and other commercial applications bringing together work from a panel of international contributors this comprehensive monograph covers natural compounds of plants endophyte enzymes and their applications in industry plant bioprospecting in cosmetics marine bioprospecting of seaweeds and more providing global perspectives on bioprospecting of plant biodiversity the authors present research on enzymes mineral micro nutrients biopesticides algal biomass and other bioactive molecules in depth chapters assess the health impacts and ecological sustainability of the various biomolecules and identify existing and possible applications ranging from ecological restoration to production of essential oils and cosmetics other topics include bio energy crops as alternative fuel resources the role of plants in phytoremediation of industrial waste and the industrial applications of endophyte enzymes this comprehensive resource includes a thorough introduction to plant biodiversity and bioprospecting will further the knowledge of application of different plants and improve research investigation techniques summarizes novel approaches for researchers in food science microbiology biochemistry and biotechnology bioprospecting of plant biodiversity for industrial molecules is an indispensable compendium of biological research for scientists researchers graduate and postgraduate students and academics in the areas of microbiology food biotechnology industrial microbiology plant biotechnology and microbial biotechnology

the last few years have seen the concept of bioenergy and biofuels come of age rising oil prices have lead to more food crops being grown for energy as well as food this has created controversy by adding to the upward pressure on crop commodity prices that was already being created by the increasing demand for food from an expanding population more attention has therefore focussed on meeting the rising demand for bioenergy and biofuels in more sustainable ways a wider range of crops is being explored including non food crops as well as the use of crop residues rather than grain or seed energy crops is a comprehensive reference source which looks at this topic from the plant and agricultural science perspective it covers energy crops that are already in use and those that are being developed or researched species that have been cultivated by humankind for millennia and some that have never been considered as crops before fall within its coverage the introductory chapter defines energy crops before reviewing the development and current state of the technology it also gives an historical perspective and introduces the ethical issues each of the subsequent chapters is dedicated to a single crop and describes the current usage of that crop for energy its potential for future development the economics of its use for energy production and the research that is being undertaken to tailor it for use as an energy crop where appropriate the implications for food and feed security are balanced against the benefits in terms of fuel security the impending oil supply peak the need to reduce co2 emissions and the implications for climate change mitigation each chapter is written by a specialist author or authors of international standing the chapters by representatives of the plant breeding and biofuel industries give an industrial perspective on why energy crops have come of age they also describe how the sector is expected to develop with a wish list of crop improvements that industry would like to see realized these include higher levels of fermentable starch cellulose fibres and oil quality through to the production of pure hydrocarbons the book is suitable for undergraduates postgraduates academics and those working in industry

this book delves into the popular food vs fuel arguments and examines the complicated interplay between biofuel and agricultural markets it provides information on forage crops as potential third generation sources of bioenergy and their cultivation practices the areas covered include methodologies to enhance production efficiency of bioenergy metabolism involved in cellulosic ethanol production influence of policy and technical implementation and the consequent impact on biofuels the discussion of current difficulties impeding the expansion of the cellulosic biofuel business as well as potential

solutions are discussed as well this book also covers case studies describing the present biofuel policies and its consequences on both the energy as well as agricultural sectors as well as analysis of the current and growing biofuel market the gathered information in the book is an excellent source for phenotyping trait improvement and developing future crop stress management strategies and models students scientists policymakers and investors in the bioenergy business will find this book to be a useful resource also it serves as an excellent reference book for agriculturists plant scientists climatologists and research scholars

providing comprehensive coverage on biofuel crop production and the technological environmental and resource issues associated with a sustainable biofuel industry this book is ideal for researchers and industry personnel beginning with an introduction to biofuels and the challenges they face the book then includes detailed coverage on crops of current importance or with high future prospects including sections on algae sugar crops and grass oil and forestry species the chapters focus on the genetics breeding cultivation harvesting and handling of each crop

in recent years there has been increasing recognition of the need for sound regulatory frameworks for bioenergy faced with high petroleum and natural gas prices and increasingly aware of climate change and environmental concerns many countries are implementing national policies and legislation to encourage bioenergy production and use these developments stem from the desire to achieve energy security and self sufficiency the need to reduce reliance on foreign fossil fuel reserves and the hope of providing increased trade opportunities for some agricultural commodities land use and the competing needs of energy and food security are key issues in the bioenergy debate international and national regulatory frameworks will have to establish clear guidelines for the sustainable development of the bioenergy industry this paper aims to stimulate discussion on the elements of appropriate national legal frameworks for bioenergy particularly in developing countries it provides legislators and policy makers with a tool to assist in identifying areas of law which may affect bioenergy regulation and in designing key elements of national bioenergy laws

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