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Bioethanol Production from Food Crops: Sustainable Sources, Interventions and Challenges comprehensively covers the global scenario of ethanol production from both food and non-food crops and other sources. The book guides readers through the balancing of the debate on food vs. fuel, giving important insights into resource management and the environmental and economic impact of this balance between demands. Sections cover Global Bioethanol from Food Crops and Forest Resource, Bioethanol from Bagasse and Lignocellulosic wastes, Bioethanol from algae, and Economics and Challenges, presenting a multidisciplinary approach to this complex topic. As biofuels continue to grow as a vital alternative energy source, it is imperative that the proper balance is reached between resource protection and human survival. This book provides important insights into achieving that balance. Presents technological interventions in ethanol production, from plant biomass, to food crops Addresses food security issues arising from bioethanol production Identifies development bottlenecks and areas where collaborative efforts can help develop more cost-effective technology

Global climate change is a natural process that currently appears to be strongly influenced by human activities, which increase atmospheric concentrations of greenhouse gases (GHG). Agriculture contributes about 20% of the world’s global radiation forcing from carbon dioxide, methane and nitrous oxide, and produces 50% of the methane and 70% of the nitrous oxide of the human-induced emission. Managing Agricultural Greenhouse Gases synthesizes the wealth of information generated from the GRACEnet (Greenhouse gas Reduction through Agricultural Carbon Enhancement network) effort with contributors from a variety of backgrounds, and reports findings with important international applications. Frames responses to challenges associated with climate change within the geographical domain of the U.S., while providing a useful model for researchers in the many parts of the world that possess similar ecoregions Covers not only soil C dynamics but also nitrous oxide and methane flux, filling a void in the existing literature Educates scientists and technical service providers conducting greenhouse gas research, industry, and regulators in their agricultural research by addressing the issues of GHG emissions and ways to reduce these emissions Synthesizes the data from top experts in the world into clear recommendations and expectations for improvements in the agricultural management of global warming potential as an aggregate of GHG emissions

From its humble beginning in the late 19th centurywhen Henry Ford's first car was designed to run on ethanolbiofuel production has been on the rise with more than 26 billion liters produced in the U.S. in 2007. Ethanol made from biomass (rather than grains) holds great promise, including numerous economic and environmental benefits. However, the ad

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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 alternatives to traditional forms of energy. Handbook of Bioenergy Crop Plants brings together the work of a panel of global experts who survey the possibilities and challenges involved in biofuel production in the twenty-first century. Section One explores the genetic improvement of bioenergy crops, ecological issues and biodiversity, feedstock logistics and enzymatic cell wall degradation to produce biofuels, and process technologies of liquid transportation fuels production. It also reviews international standards for fuel quality, unique issues of biofuel-powered engines, life-cycle environmental impacts of biofuels compared with fossil fuels, and social concerns. Section Two examines commercialized bioenergy crops, including cassava, Jatropha, forest trees, maize, oil palm, oilseed Brassicas, sorghum, soybean, sugarcane, and switchgrass. Section Three profiles emerging crops such as Brachypodium, diesel trees, minor oilseeds, lower plants, Paulownia, shrub willow, sugarbeet, sunflower, and sweet potato. It also discusses unconventional biomass resources such as vegetable oils, organic waste, and municipal sludge. Highlighting the special requirements, major achievements, and unresolved concerns in bioenergy production from crop plants, the book is destined to 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.

Microbiome Stimulants for Crops: Mechanisms and Applications provides the latest developments in the real-world development and application of these crop management alternatives in a cost-effective, yield protective way. Sections address questions of research, development and application, with insights into recent legislative efforts in Europe and the United States. The book includes valuable information regarding mechanisms and the practical information needed to support the growing microbial inoculant and biostimulant industry, thus helping focus scientific research in new directions. Provides methods for finding and testing endophytic and growth promotional microbes Explains the mechanisms of microbes and other biostimulant function in promoting plant growth Evaluates methods for treatments of plants with microbes and microbiome stimulants Identifies areas for new research

Shortlisted for the 2018 TWS Wildlife Publication Awards in the authored book categoryIn recent years, conflicts between ecological conservation and economic growth forced a reassessment of the motivations and goals of wildlife and forestry management. Focus shifted from game and commodity management to biodiversity conservation and ecological fore

This book provides an interdisciplinary and comprehensible introduction to bioeconomy. It thus provides basic knowledge for understanding a transformation process that will shape the 21st century and requires the integration of many disciplines and industries that have had little to do with each other up to now. We are talking about the gradual and necessary transition from the age of fossil fuels, which began around 200 years ago, to a global economy based on renewable raw materials (and renewable energies). The success of this transition is key to coping with the challenge of climate change. This book conceives the realization of bioeconomy as a threefold task – a scientific, an economic and an ecological one. · Where does the biomass come from that we need primarily for feeding the growing world population but also for future energy and material use? How can it be processed in biorefineries and what role does biotechnology play in this regard? · Which aspects of innovation economics need to be considered, which economic aspects of value creation, competitiveness and customer acceptance are important? · What conditions must a bioeconomy fulfil in order to enable a sustainable development of life on earth? May it be regarded as a key to further economic growth or shouldn’t it rather orient itself towards the ideal of sufficiency? By dealing with these questions from the not necessarily consistent perspectives of proven experts, this book provides an interdisciplinary overview of a dynamic field of research and practice that raises more questions than answers and thus may nurture the motivation of many more people to seriously engage for the realization of a bioeconomy.

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.

The demand for renewable energies from biomass is growing steadily as policies are enacted to encourage such development and as industry increasingly sees an opportunity to develop bio-energy enterprises. Recent policy changes in the EU, USA and other countries are spurring interest in the cultivation of energy crops such as switchgrass. Switchgrass has gained and early lead in the race to find a biomass feedstock for energy production (and for the almost requisite need for bio-based products from such feedstocks). Switchgrass: A Valuable Biomass Crop for Energy provides a comprehensive guide to the biology, physiology, breeding, culture and conversion of switchgrass as well as highlighting various environmental, economic and social benefits. Considering this potential energy source, Switchgrass: A Valuable Biomass Crop for Energy brings together chapters from a range of experts in the field, including a foreword from Kenneth P. Vogel, to collect and present the environmental benefits and characteristics of this a crop with the potential to mitigate the risks of global warming by replacing fossil fuels. Including clear figures and tables to support discussions, Switchgrass: A Valuable Biomass Crop for Energy provides a solid reference for anyone with interest or investment in the development of bioenergy; researchers, policy makers and stakeholders will find this a key resource.

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