

Developments in Applied Phycology 7

Bhaskar Singh
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Algae and Environmental Sustainability

 Springer

Algae And Environmental Sustainability Developments In Applied Phycology

Joacim Rocklöv



Algae And Environmental Sustainability Developments In Applied Phycology:

Algae and Environmental Sustainability Bhaskar Singh, Kuldeep Baudh, Faizal Bux, 2015-12-22 This book presents the dynamic role of algae in a sustainable environment. Two major aspects namely bioenergy and bioremediation have been elaborated in various chapters contributed by scientists and teachers from different geographical areas throughout the world. Algal biofuels is an emerging area of equal interest to researchers, industries and policy makers working or focusing on alternative i.e. renewable fuels. Algae have been an area of interest due to their wide range of applications. Over the last 5 decades eukaryotic algae have been used in the aquaculture industry as feed for invertebrates providing a rich source of antioxidants, dietary fiber, minerals and protein. More recently there has been a focus on the use of algal biomass in the development of alternative fuels. The extraction of oil from algae has been widely explored as a much more viable feedstock than plant based oils. In large scale fuel production using algae as feedstock has the advantages that it doesn't require arable land and that wastewater can be used as a source of nutrients in their culture. The multifunctional approach of algae includes pollution remediation, carbon sequestration, biofuels production and delivery of value added products. However there are still some obstacles that need to be overcome to make their use as potential feedstock for biofuels technologically and economically feasible. In order to maintain the sustainability aspect of algal biofuels various aspects have to be studied and critically analyzed to assess the long term sustainability of algal derived biofuels. This book discusses the role of algae as a promising future feedstock for biofuels. They are known to sequester carbon in much larger amounts than plants and as such the book also describes their phytoremediation potential for conventional as well as emerging contaminants. It describes the role of anaerobic digestion in algal biorefineries, bioreactions and process parameters, biogas recovery and reuse. The role of algal biofilm based technology in wastewater treatment and transforming waste into bio products is discussed and remediation of sewage water through algae is assessed. The book also describes the production of biohydrogen, bio oil, biodiesel and the major bottlenecks in their usage. The emerging characterization techniques of these biofuels, bio oil and biodiesel are described as are the decolorizing potential of algae and the genetic engineering techniques that could enhance the production of lipids in algae. Other aspects of the book include the role of remote sensing technology in the monitoring of algae and a life cycle assessment of algal biofuels.

Handbook of Algal Technologies and Phytochemicals Gokare Ravishankar, Ranga Rao Ambati, 2019-07-12 Key Features The most comprehensive resource available on the biodiversity of algal species, their industrial production processes and their use for human consumption in food, health and varied applications. Emphasis on basic and applied research addressing aspects of scale up for commercial exploitation for the development of novel phytochemicals from algae. Addresses the underexplored and underutilized potential of chemicals from marine sources for health benefits. Each chapter written by expert contributors from around the world includes a Dictionary of Terms, Key Facts, Summary, Points, Figures and Tables as well as up to date references. The second

book in this two volume set explores phycoremediation applications and the sustainable use of algae for biofuels and other products of economic value It also looks at aspects such as macro and micro algal impact on marine ecosystem and remote sensing of algal blooms The commercial value of chemicals of value to food and health is about 6 billion annually of which 30 percent relates to micro and macro algal metabolites and products for health food applications As a whole the two volumes explore the aspects of diversity of micro and macro algal forms their traditional uses their constituents which are of value for food feed specialty chemicals bioactive compounds for novel applications and bioenergy molecules Bio business and the market share of algae based products are also dealt with providing global perspectives **Sustainable Downstream**

Processing of Microalgae for Industrial Application Kalyan Gayen, Tridib Kumar Bhowmick, Sunil Kumar

Maity, 2019-09-05 Microalgae can be future resource for industrial biotechnology In current energy crisis era microalgae are under tremendous research focus for the production of biodiesel due to their high photosynthetic efficiency growth rate and high lipid content compared to territorial plants However the large scale production of algal biomass and downstream processing of harvested algae towards bio fuels are facing several challenges from economic viability perspective Apart from bio fuels the microalgae synthesize number of bio molecules such as pigments e g chlorophyll carotenoid protein e g lectin phycobiliprotein and carbohydrates e g agar carrageenan alginate fucodan which are available in the various forms of microalgal products Therefore developing a strategy for large scale production and use of algal biomass for the co production of these value added macromolecules is thus imperative for the improvement of the economics of algal biorefinery In the above context this book covers three major areas i commercial scale production of bio molecules from microalgae ii sustainable approach for industrial scale operation and iii optimization of downstream processes Each of these sections is composed of several chapters written by the renowned academicians industry experts Furthermore in this book a significant weightage is given to the industry experts around 50% to enrich the industrial perspectives We hope that amalgamate of fundamental knowledge from academicians and applied research information from industry experts will be useful for forthcoming implementation of a sustainable integrated microalgal biorefinery This book highlights following Explores biomolecules from microalgae and their applications Discusses microalgae cultivations and harvesting Examines downstream processing of biomolecules Explores sustainable integrated approaches for industrial scale operations Examines purification techniques specific for microalgal proteins Omega 3 fatty Acids carbohydrates and pigments **Bioprocess Engineering**

for a Green Environment V. Sivasubramanian, 2018-05-04 Bioprocess Engineering for a Green Environment examines numerous bioprocesses that are crucial to our day to day life specifically the major issues surrounding the production of energy relating to biofuels and waste management The nuance of this discussion is reflected by the text s chapter breakdown providing the reader with a fulsome investigation of the energy sector the importance of third generation fuels and the application of micro and macroalgae for the production of biofuels The book also provides a detailed exploration of

biocatalysts and their application to the food industry bioplastics production conversion of agrowaste into polysaccharides as well as the importance of biotechnology in bio processing Numerous industries discharge massive amounts of effluents into our rivers seas and air systems As such two chapters are dedicated to the treatment of various pollutants through biological operation with hopes of achieving a cleaner greener environment This book represents the most comprehensive study of bioprocessing and its various applications to the environment available on the market today It was furthermore written with various researchers in mind ranging from undergraduate and graduate students looking to enhance their knowledge of the topics presented to scholars and engineers interested in the bioprocessing field as well as members of industry and policy makers Provides a comprehensive overview of bioprocesses that apply to day to day living Is learner centered providing detailed diagrams for easy understanding Explores the importance of biocatalysts and their applications to the food industry as well as bioplastics production Examines the unique capabilities of bioprocess engineering and its ability to treat various pollutants

Bioreactors Lakhveer Singh, Abu Yousuf, Durga Madhab Mahapatra, 2020-04-08 Bioreactors Sustainable Design and Industrial Applications in Mitigation of GHG Emissions presents and compares the foundational concepts state of the art design and fabrication of bioreactors Solidly based on theoretical fundamentals the book examines various aspects of the commercially available bioreactors such as construction and fabrication design modeling and simulation development operation maintenance management and target applications for biofuels production and bio waste management Emerging issues in commercial feasibility are explored constraints and pathways for upscaling and techno economic assessment are also covered This book provides researchers and engineers in the biofuels and waste management sectors a clear at a glance understanding of the actual potential of different advanced bioreactors for their requirements It is a must have reference for better informed decisions when selecting the appropriate technology models for sustainable systems development and commercialization

Fuels, Chemicals and Materials from the Oceans and Aquatic Sources Francesca M. Kerton, Ning Yan, 2017-05-22 Fuels Chemicals and Materials from the Oceans and Aquatic Sources provides a holistic view of fuels chemicals and materials from renewable sources in the oceans and other aquatic media It presents established and recent results regarding the use of water based biomass both plants and animals for value added applications beyond food The book begins with an introductory chapter which provides an overview of ocean and aquatic sources for the production of chemicals and materials Subsequent chapters focus on the use of various ocean bioresources and feedstocks including microalgae macroalgae and waste from aquaculture and fishing industries including fish oils crustacean and mollusc shells Fuels Chemicals and Materials from the Oceans and Aquatic Sources serves as a valuable reference for academic and industrial professionals working on the production of chemicals materials and fuels from renewable feedstocks It will also prove useful for researchers in the fields of green and sustainable chemistry marine sciences and biotechnology Topics covered include Production and conversion of green macroalgae Marine macroalgal biomass as an energy feedstock

Microalgae bioproduction Bioproduction and utilization of chitin and chitosan Applications of mollusc shells Crude fish oil as a potential fuel **Soil Fertility Management for Sustainable Development** Deepak G. Panpatte, Yogeshvari K.

Jhala, 2019-03-07 Soil fertility is the backbone of agricultural systems and plays a key role in determining food quantity and quality In recent decades soil fertility has decreased due to indiscriminate use of agrochemicals and nations around the globe are now facing the challenge of increasing food production while sustainably maintaining soil fertility Written by leading international scientists in the field this book explores soil fertility management strategies including agronomic microbiological and soil science based strategies Highlighting the practices that can be incorporated into organic farming and discussing recent advances it is a valuable resource for researchers wanting to broaden their vision and the scope of their investigations *Pharmaceuticals and Personal Care Products: Waste Management and Treatment Technology* Majeti

Narasimha Vara Prasad, Meththika Vithanage, Atya Kapley, 2019-04-04 Pharmaceuticals and Personal Care Products Waste Management and Treatment Technology Emerging Contaminants and Micro Pollutants provides the tools and techniques for identifying these contaminants and applying the most effective technology for their remediation recovery and treatment The consumption of pharmaceuticals and personal care products PPCPs has grown significantly over the last 35 years thus increasing their potential risk to the environment As PPCPs are very difficult to detect and remove using conventional wastewater treatment methods this book provides solutions to a growing problem Includes sampling analytical and characterization methods and technology for detecting PPCPs in the environment Provides advanced treatment and disposal technologies for the removal of PPCPs from wastewater surface water landfills and septic systems Examines the pathways of PPCPs into the environment **Ethanol** Angelo Basile, Adolfo Iulianelli, Francesco Dalena, T. Nejat Veziroglu, 2018-08-28

Ethanol Science and Engineering reviews the most significant research findings in both ethanol production and utilization The book's contents are divided into four parts beginning with an explanation of the chemical reactions involved during the conversion of ethanol to more complex molecules Other sections focus on various processes and their potential use the modelling of various chemical processes and finally their economic and environmental impact The book includes the most advanced production processes new technologies applications and the economic role ethanol plays today The book will be great for researchers and engineers in both academic and industry The idea of using ethanol as a fuel is one of the most promising options in the arena of alternative fuels because of its versatile use as an intermediate for producing hydrogen via reforming reactions direct fuel cells feed and or its production from biomass which is also considered a sustainable feedstock Reviews ethanol production methods from biomass Discusses the potential of ethanol as a viable future fuel Includes hydrogen production methods using ethanol in catalytic reforming processes Outlines the various technologies based on ethanol Includes ethanol powered fuel cells *Waste to Wealth* Reeta Rani Singhania, Rashmi Avinash Agarwal, R. Praveen Kumar, Rajeev K Sukumaran, 2017-12-07 This book focuses on value addition to various waste streams which include

industrial waste agricultural waste and municipal solid and liquid waste It addresses the utilization of waste to generate valuable products such as electricity fuel fertilizers and chemicals while placing special emphasis on environmental concerns and presenting a multidisciplinary approach for handling waste Including chapters authored by prominent national and international experts the book will be of interest to researchers professionals and policymakers alike

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