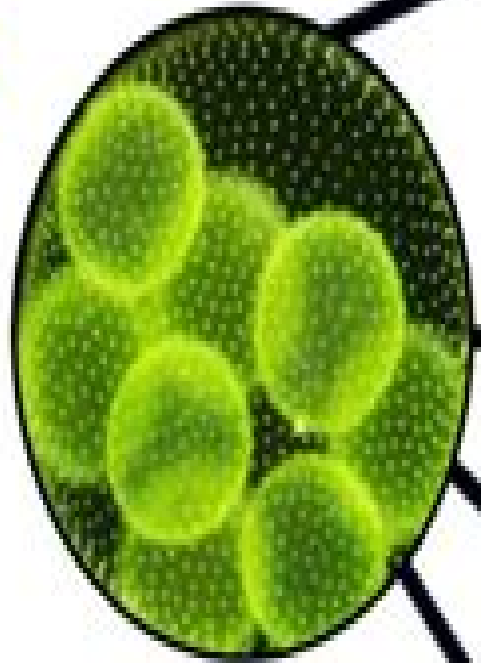




Sunlight



Water,
Nutrients



Microalgae

High-added value products

- Pigments (Chlorophyll, Phycocyanin, Phycoerythrin, Astaxanthin, Carotenoids)
- PUFAs, • Peptides,
- Exo-polysaccharides, etc.

Carbohydrates

- Bioethanol,
- Biogas

Lipids

- Biodiesel

Proteins

- Aquaculture feed,
- Biofertilizers

Microalgae Biotechnology Advances In Biochemical Engineeringbiotechnology

**Md. Asraful Alam, Jing-Liang
Xu, Zhongming Wang**



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Microalgae Biotechnology Clemens Posten, Steven Feng Chen, 2015-12-21 Antenna Mutants Domestication by Roberto Bassi Heterotrophic Cultivation by William McCaffrey Chlorella for industrial applications Advances and prospective by Feng Chen Carotinoide by Carola Griehl Engineering the algal chloroplast for synthesis of therapeutic proteins by Saul Purton Design Concepts and recent developments of photobioreactors by Clemens Posten Efficiency of flat plate reactors by Mario Tredici Measuring modelling and control by Olivier Bernard Microalgae in Life Support Systems by Klaus Slenzka Heterotrophic oil production by Makato Watanabe

Microalgae Biotechnology for Food, Health and High Value Products Md. Asraful Alam, Jing-Liang Xu, Zhongming Wang, 2020-01-22 Microalgae Biotechnology for Food Health and High Value Products presents the latest technological innovations in microalgae production market status of algal biomass based products and future prospects for microalgal applications It provides stimulating overviews from different perspectives of application that demonstrate how rapidly the commercial production of microalgae based food health and high value products is advancing It also addresses a range of open questions and challenges in this field The book highlights the latest advances of interest to those already working in the field while providing a comprehensive overview for those readers just beginning to learn about the promise of microalgae as a sustainable source of both specialty and commercial products It offers a valuable asset for commercial algae producers algae product developers scientific researchers and students who are dedicated to the advancement of microalgae biotechnology for applications in health diet nutrition cosmetics biomaterials etc

Biotechnology for Waste Biomass Utilization Prakash K. Sarangi, Latika Bhatia, 2022-10-13 This volume focuses on how waste biomass can be transformed into useful biomaterials food and feed fuel and chemicals by using various processes such as chemical physical thermal biological and biotechnological procedures Biomass from biowastes such as agriculture crop residues wood processing residues forest residues food waste industrial waste and municipal solid waste have emerged as potential substrates for bioenergy production This volume explores the key features of biotechnology for waste biomass utilization presenting scientific and technical literature on sustainable waste biomass management as well as for biomass conversion for biofuels chemicals and other new commercial products It discusses a variety of novel biotechnical applications and interventions including microbial fermentation and anaerobic digestion biotechnological modes of xylooligosaccharides production multifaceted utilization of microalgal biomass vermiculture and vermicomposting and more Key features Provides the most recent information about waste biomass utilization for the production of biofuels and biochemicals Shows a wide range of novel technologies in the field of biotechnology towards waste biomass utilization Focuses on the utilization of microbial resources for waste biomass conversion into value added products Explores methods for food wastes and crop wastes conversion into biofuels and biochemicals Provides the scientific information describing various examples and case studies which aid gaining knowledge to researchers and academicians With chapters from eminent researchers who have

significant global experience in the field of waste biomass management this volume delivers a wealth of valuable information for researchers involved in bioenergy utilization It will also be an essential source for academicians researchers economists policymakers and policy analysts

Basic and Applied Phytoplankton Biology Perumal Santhanam,Ajima Begum,Perumal Pachiappan,2018-07-23 This book presents the latest developments and recent research trends in the field of plankton highlighting the potential ecological and biotechnological applications It critically and comprehensively discusses strain selection growth characteristics large scale culturing and biomass harvesting focusing on the screening and production of high value products from algae and evaluating carbon dioxide sequestration from fuel gas as a climate change mitigation strategy The latter areas of research are clearly central to the sustainable development approach that is currently attracting global attention Over the decades much of the literature on has focused on the biological and ecological aspects of phytoplankton found in freshwater marine and brackish water environments However these organisms are known to also inhabit various other environments More recently there has been a substantial shift toward the concept of sustainable development and the green economy with emphasis on exploiting biological systems for the benefit of mankind The significance of these plankton cannot be underestimated as they contribute approximately 40% of the oxygen in the atmosphere Therefore there is potential for exploitation of this invaluable biomass source that could lead to significant environmental and economic benefits for man Providing a comprehensive outline of the most recent developments and advances in the field of industrial applications of these plankton this book is an excellent reference resource for researchers and practitioners

Extremophiles Pratibha Dheeran,Sachin Kumar,2023-04-07 This book Extremophiles Wastewater and Algal Biorefinery explores the potential of extremophiles extremotolerant organisms in wastewater treatment biorefining of algal biomass and in the treatment of industrial waste effluent The book provides a holistic overview about the current status of extremophiles in waste water treatment and various industrial processes The chapters comprehensively cover the scientific and research findings on various industrial applications of extremophiles such as biofuels extremozymes electricity generation biofilms microbial corrosion and waste water treatment etc This book is an integrated source of literature for the scientists engineers academicians and students working in the area of extremophiles microbial technology and biorefinery

Algae and Sustainable Technologies Atul Kumar Upadhyay,D.P. Singh,2020-11-09 Algal and sustainable technologies Bioenergy Nanotechnology and Green chemistry is an interdisciplinary overview of the world s major problems water scarcity clean environment and energy and their sustenance remedy measures using microalgae It comprehensively presents the way to tackle the socio economic issues including food feed fuel medicine and health and also entails the untapped potential of microalgae in environmental management bioenergy solution and sustainable synthesis of pharmaceutical and nutraceutical products This book basically emphasizes the success of algae as wonderful feed stocks of future and provides upto date information and sustainable and recreational outlook towards degrading environment and energy crisis

Applicability of fast emerging algae based nanotechnology in bioremediation and production of nanoparticle AuNP AgNP etc are beautifully described along with latest research and findings Key features The waste to best to income strategies are the main concern of the book and take the edge off the problem of pollution energy and income Elucidate the sustainable phycoremediation and nanoparticle functions as low cost approach for various ecosystem services Information regarding pharmaceuticals nutraceuticals and other algae based value added product synthesis and fate are comprehensively discussed Knowledge resource latest research findings and prospects presented in an accessible manner for researchers students eminent scientists entrepreneurs professionals and policy maker

Current Developments in Biotechnology and Bioengineering Ranjna Sirohi,Ashok Pandey,Sang Jun Sim,Jo-Shu Chang,Duu-Jong Lee,2023-01-06 Photobioreactors Design and Applications provides a comprehensive overview of photobioreactor design types and applications It also introduces key principles that enable chemical and environmental engineers to engage in analysis optimization and design with consistent control over biological and chemical transformations The use of computational modeling of processes control systems and CFD is in great demand This book covers these aspects of chemical and bioprocesses Focuses on design types modeling and simulation of photobioreactors and applications in biohydrogen and microalgae production Includes up to date reviews of photobioreactors Discusses biopolymers diatoms cyanobacteria and pigments production using different types of photobioreactors

Microalgae Charis M. Galanakis,2020-10-05 *Microalgae Cultivation Recovery of Compounds and Applications* supports the scientific community professionals and enterprises that aspire to develop industrial and commercialized applications of microalgae cultivation Topics covered include conventional and emerging cultivation and harvesting techniques of microalgae design transport phenomena models of microalgae growth in photobioreactors and the catalytic conversion of microalgae A significant focus of the book illustrates how marine algae can increase sustainability in industries like food agriculture biofuel and bioprocessing among others This book is a complete reference for food scientists technologists and engineers working in the bioresource technology field It will be of particular interest to academics and professionals working in the food industry food processing chemical engineering and biotechnology Explores emerging technologies for the clean recovery of antioxidants from microalgae Includes edible oil and biofuels production functional food cosmetics and animal feed applications Discusses microalgae use in sustainable agriculture and wastewater treatment Considers the techno economic aspects of microalgae processing for biofuel chemicals pharmaceuticals and bioplastics

Biofuels from Algae Ashok Pandey,Duu-Jong Lee,Yusuf Chisti,Carlos R. Soccol,2013-08-08 This book provides in depth information on basic and applied aspects of biofuels production from algae It begins with an introduction to the topic and follows with the basic scientific aspects of algal cultivation and its use for biofuels production such as photo bioreactor engineering for microalgae production open culture systems for biomass production and the economics of biomass production It provides state of the art information on synthetic biology approaches for algae suitable for biofuels production

followed by algal biomass harvesting algal oils as fuels biohydrogen production from algae formation production of co products and more The book also covers topics such as metabolic engineering and molecular biology for algae for fuel production life cycle assessment and scale up and commercialization It is highly useful and helps you to plan new research and design new economically viable processes for the production of clean fuels from algae Covers in a comprehensive but concise way most of the algae biomass conversion technologies currently available Lists all the products produced from algae i e biohydrogen fuel oils etc their properties and potential uses Includes the economics of the various processes and the necessary steps for scaling them up

Modern Biochemical Engineering T. Scheper,1992-06-09

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 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

Encyclopedia of Marine Biotechnology Se-Kwon Kim,2020-08-04

A keystone reference that presents both up to date research and the far reaching applications of marine biotechnology Featuring contributions from 100 international experts in the field this five volume encyclopedia provides comprehensive coverage of topics in marine biotechnology It starts with the history of the field and delivers a complete overview of marine biotechnology It then offers information on marine organisms bioprocess techniques marine natural products biomaterials bioenergy and algal biotechnology The encyclopedia also covers marine food and biotechnology applications in areas such as pharmaceuticals cosmeceuticals and nutraceuticals Each topic in Encyclopedia of Marine Biotechnology is followed by 10 30 subtopics The reference looks at algae cosmetics drugs and fertilizers biodiversity chitins and chitosans aeroplysin 1 toluquinol astaxanthin and fucoxanthin and algal and fish genomics It examines neuro protective compounds from marine microorganisms potential uses and medical management of neurotoxic phycotoxins and the role of metagenomics in

exploring marine microbiomes Other sections fully explore marine microbiology pharmaceutical development seafood science and the new biotechnology tools that are being used in the field today One of the first encyclopedic books to cater to experts in marine biotechnology Brings together a diverse range of research on marine biotechnology to bridge the gap between scientific research and the industrial arena Offers clear explanations accompanied by color illustrations of the techniques and applications discussed Contains studies of the applications of marine biotechnology in the field of biomedical sciences Edited by an experienced author with contributions from internationally recognized experts from around the globe Encyclopedia of Marine Biotechnology is a must have resource for researchers scientists and marine biologists in the industry as well as for students at the postgraduate and graduate level It will also benefit companies focusing on marine biotechnology pharmaceutical and biotechnology and bioenergy

Current Developments in Biotechnology and Bioengineering Christian Larroche, M. Angeles Sanroman, Guocheng Du, Ashok Pandey, 2016-09-17 Current Developments in Biotechnology and Bioengineering Bioprocesses Bioreactors and Controls provides extensive coverage of new developments state of the art technologies and potential future trends reviewing industrial biotechnology and bioengineering practices that facilitate and enhance the transition of processes from lab to plant scale which is becoming increasingly important as such transitions continue to grow in frequency Focusing on industrial bioprocesses bioreactors for bioprocesses and controls for bioprocesses this title reviews industrial practice to identify bottlenecks and propose solutions highlighting that the optimal control of a bioprocess involves not only maximization of product yield but also taking into account parameters such as quality assurance and environmental aspects Describes industrial bioprocesses based on the reaction media Lists the type of bioreactors used for a specific bioprocess application Outlines the principles of control systems in various bioprocesses

Ullmann's Biotechnology and Biochemical Engineering, 2 Volume Set Wiley-VCH, 2007-07-23 The one stop resource for all those involved in the biochemical and biotechnological industries Based on the latest online edition of Ullmann's Encyclopedia of Industrial Chemistry containing articles never seen before in print this ready reference meets the need for a detailed survey of the biochemical fundamentals and techniques as well as their applications in biochemical engineering and biobased production

Biotechnological Applications of Biodiversity Joydeep Mukherjee, 2014-11-22 This book review series presents current trends in modern biotechnology The aim is to cover all aspects of this interdisciplinary technology where knowledge methods and expertise are required from chemistry biochemistry microbiology genetics chemical engineering and computer science Volumes are organized topically and provide a comprehensive discussion of developments in the respective field over the past 3 5 years The series also discusses new discoveries and applications Special volumes are dedicated to selected topics which focus on new biotechnological products and new processes for their synthesis and purification In general special volumes are edited by well known guest editors The series editor and publisher will however always be pleased to receive suggestions and supplementary information Manuscripts are accepted in English

Algal Biotechnology

Société pour l'algologie appliquée. International Meeting, Thierry Stadler, 1988

Algae Biotechnology Faizal Bux, Yusuf Chisti, 2016-03-09 This book examines the utilization of algae for the development of useful products and processes with the emphasis towards green technologies and processes and the requirements to make these viable Serving as a complete reference guide to the production of biofuels and other value added products from micro and macro algae it covers various aspects of algal biotechnology from the basics to large scale cultivation harvesting and processing for a variety of products It is authored and edited by respected world experts in the field of algal biotechnology and provides the most up to date and cutting edge information on developments in the field Over the past decade there has been substantial focus and related literature on the application of algal biomass for the generation of novel processes and products *Algae Biotechnology Products and Processes* encompasses a holistic approach to critically evaluating developments in the field of algal biotechnology whilst taking into account recent advances and building on the body of knowledge Aspects of the effects of harmful algae are also discussed as well as the potential commercial application of algal biotechnology the techno economic feasibility of algal biodiesel production and the use of genetic and metabolic engineering for the improvement of yield Other bioenergy sources such as alcohol fuels aviation fuels biohydrogen and biogas are also covered This book is intended for postgraduates and researchers working in the biofuels and algal industry it constitutes ideal reference material for both early stage and established researchers

Grand Challenges in Algae Biotechnology Armin Hallmann, Pabulo H. Rampelotto, 2020-01-02 In this book researchers and practitioners working in the field present the major promises of algae biotechnology and they critically discuss the challenges arising from applications Based on this assessment the authors explore the great scientific industrial and economic potential opened up by algae biotechnology The first part of the book presents recent developments in key enabling technologies which are the driving force to unleash the enormous potential of algae biotechnology The second part of the book focuses on how practical applications of algae biotechnology may provide new solutions to some of the grand challenges of the 21st century Algae offer great potential to support the building of a bio based economy and they can contribute new solutions to some of the grand challenges of the 21st century Despite significant progress algae biotechnology is yet far from fulfilling its potential How to unleash this enormous potential is the challenge that the own field is facing New cultivation technologies and bioprocess engineering allow for optimization of the operation strategy of state of the art industrial scale production systems and they reduce the production costs Parallel to this new molecular technologies for genetic and metabolic engineering of micro algae develop quickly The optimization of existing biochemical pathways or the introduction of pathway components makes high yield production of specific metabolites possible Novel screening technologies including high throughput technologies enables testing of extremely large numbers of samples and thus allow for large scale modelling of biomolecular processes which would have not been possible in the past Moreover profitable production can demand for integrated biorefining which combines consecutive processes and various

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