

Histoire de l'algalie à la pacifique coloniale Copy

Catalogue of the Benthic Marine Algae of the Indian Ocean Autophagy in plants and algae Effects, Uptake, and Metabolism of Methoxychlor, Mirex, and 2,4-D in Seaweeds The Pathologic Anatomy of Mycoses Effects of Selected Wastewater Chlorination Products and Captan on Marine Algae Handbook of Research on Algae as a Sustainable Solution for Food, Energy, and the Environment The Pathologic Anatomy of Mycoses A Synopsis of Irish Algae, Freshwater and Marine Algae and Environmental Sustainability The Marine Algae of New England Marine Algal Assay Procedure Marine Algae of New England and Adjacent Coast Algae Algae Abstracts Biogeography of Freshwater Algae Therapeutic and Nutritional Uses of Algae Urban Lichens Lipids in Cyanobacteria, Algae, and Plants - From Biology to Biotechnology Algae Materials Algae and Aquatic Macrophytes in Cities Ice and Snow Algae Algae ... Algae Algae Biotechnology Next-Generation Algae, Volume 2 Algae: Volume 1, Myxophyceae, Peridinieae, Bacillarieae, Chlorophyceae Marine Algal Bloom: Characteristics, Causes and Climate Change Impacts Algal Toxins: Nature, Occurrence, Effect and Detection Algae Biomass: Characteristics and Applications Value-added Products from Algae Algae Algae and Sustainable Technologies Non-Photochemical Quenching and Energy Dissipation in Plants, Algae and Cyanobacteria The Evolution of Multicellularity Algae for Food Biology of the Red Algae Algae Based Bioelectrochemical Systems for Carbon Sequestration, Carbon Storage, Bioremediation and Bioproduct Generation Coralline Algae: Globally Distributed Ecosystem Engineers Separation of Algal Cells from Wastewater Lagoon Effluents Handbook of Plant and Crop Physiology, Third Edition

Catalogue of the Benthic Marine Algae of the Indian Ocean 1996-09-22 this catalogue which integrates nearly 35 000 records of benthic marine algae from the Indian Ocean into a taxonomic classification comprising 3 355 specific and infraspecific taxa in 629 genera will greatly facilitate future work in this region the bibliography of 4 000 references is the largest list of phylogenetic literature ever published the extensive taxonomic and nomenclatural notes are of paramount importance

Autophagy in plants and algae 2015-05-15 autophagy also known as macroautophagy is an evolutionarily conserved process by which cytoplasmic components are nonselectively enclosed within a double membrane vesicle known as the autophagosome and delivered to the vacuole for degradation of toxic components and recycling of needed nutrients this catabolic process is required for the adequate adaptation and response of the cell and correspondingly the whole organism to different types of stress including nutrient starvation or oxidative damage autophagy has been extensively investigated in yeasts and mammals but the identification of autophagy related atg genes in plant and algal genomes together with the characterization of autophagy deficient mutants in plants have revealed that this process is structurally and functionally conserved in photosynthetic eukaryotes recent studies have demonstrated that autophagy is active at a basal level under normal growth in plants and is upregulated during senescence and in response to nutrient limitation oxidative stress salt and drought conditions and pathogen attack autophagy was initially considered as a non selective pathway but numerous observations mainly obtained in yeasts revealed that autophagy can also selectively eliminate specific proteins protein complexes and organelles interestingly several types of selective autophagy appear to be also conserved in plants and the degradation of protein aggregates through specific adaptors or the delivery of chloroplast material to the vacuole via autophagy has been reported this research topic aims to gather recent progress on different aspects of autophagy in plants and algae we welcome all types of articles including original research methods opinions and reviews that provide new insights about the autophagy process and its regulation

Effects, Uptake, and Metabolism of Methoxychlor, Mirex, and 2,4-D in Seaweeds 1976 half a century ago our knowledge of mycoses especially pulmonary mycoses was rather fragmentary it was limited to rare case reports as oddities accordingly in the handbuch der speziellen pathologischen anatomie und histologie the chapter on lung diseases caused by budding and spore forming fungi by j watjen halle took up as little as 27 pages only arndt göttingen could report on several cases from which he made his observations on actinomycotic changes of the lungs and pleura since then our knowledge of mycoses has deepened and expanded in an unpredictable manner this progress was mainly due to research and publications in the USA and South America in central Europe the number of cases of mycoses has increased during the last two decades being reported especially as a second disease in patients with spontaneous or iatrogenic destruction of the bone marrow after treatment of cancer with cytostatic agents the number of known types of pathogenic fungi has increased the knowledge of their types and conditions of growth have given rise to a subspecialty therefore a great need has

arisen for a new edition of the chapter on mycoses in the Henke Lubarsch Roessle Handbook of Special Pathological Anatomy and Histology

The Pathologic Anatomy of Mycoses 2012-12-06 Today's planet faces several critical problems such as resource depletion, environmental destruction, and climate change that affect all areas of life. As we know, figuring out how to address these issues and prioritizing Earth's health has been at the forefront of study, as it is a key issue that affects us all. One element that requires further investigation is algae, regarding its potential for creating a more sustainable future across the food, energy, and environmental sectors. The Handbook of Research on Algae as a Sustainable Solution for Food, Energy, and the Environment provides insight into the biotechnological and biorefinery aspects of algae, together with their unique applications in the agriculture and pharmaceutical industry. Furthermore, this book considers the biological and biotechnological processes happening in the cultivation and harvesting of algae, DNA sequencing, and genomics of algae. Moreover, it examines the bio-remediation aspects of algae and its utilization to produce biofuels, methane, hydrogen, and other useful renewable sources of energy, thereby contributing to environmental sustainability. Covering topics such as cell biology and food science, this reference work is ideal for academicians, researchers, industry professionals, scholars, practitioners, instructors, and students.

Effects of Selected Wastewater Chlorination Products and Captan on Marine Algae 1977 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 phycoremediation 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 Research on Algae as a Sustainable Solution for Food, Energy, and the Environment

2022-06-03 a single source reference on the biology of algae the third edition of algae anatomy biochemistry and biotechnology examines the most important taxa and structures for freshwater marine and terrestrial forms of algae its comprehensive coverage goes from algae's historical role through its taxonomy and ecology to its natural product possibilities in this update the authors have gathered a significant amount of new material including more information on macroalgae detailed description of biotic associations updated description of biomass cultivation systems coverage of different omic approaches and tools used in algal investigation an expanded and updated algae utilization chapter the book's unifying theme is the important role of algae in the earth's self-regulating life support system and its function within restorative models of planetary health it also discusses algae's biotechnological applications including potential nutritional and pharmaceutical products written for students as well as researchers teachers and professionals in the field of phycology and applied phycology this new full color edition is both illuminating and inspiring

The Pathologic Anatomy of Mycoses 1972-01-15 algae abstracts is the first in a series of bibliographies on water resources and pollution published by ifi plenum data corporation in cooperation with the water resources scientific information center wrsic it is produced wholly from the information base comprising material abstracted and indexed for selected water resources abstracts the bibliography is divided into volumes according to the publication dates of the source documents volume 1 contains 569 abstracts covering publication dates up to and including 1969 volume 2 contains 730 abstracts covering the years 1970 to 1972 the material included in this bibliography represents computer selections based on the presence of a form of the word alga somewhere in the referenced citation substantively the material typifies wrsic's centers of competence approach to information support of the office of water resources research owrr of the department of the interior most of the references in this bibliography are the work of the center of competence on eutrophication at the university of wisconsin the indexes refer to the wrsic accession number which follows each abstract the significant descriptor index is made up of a fraction of the total descriptors and identifiers by which each paper has been indexed it represents weighted terms that best describe the information content this status is indicated by the asterisks which precede them the general index includes all the remaining descriptors and identifiers by which each paper in this bibliography has been indexed

A Synopsis of Irish Algae, Freshwater and Marine 1908 this book is based on a workshop on

biogeography of freshwater algae held during the fifth international phycological congress in china 1994 a group of outstanding specialists covering widely different approaches to the subject have been brought together and this collection of their contributions forms a unique volume there is no other book on the subject it thus fills an evident gap in the phycological literature and will be of major interest to researchers and teachers within phycology limnology and evolutionary biology however it may also be useful in courses for advanced students

Algae and Environmental Sustainability 2015-12-22 algae have been used since ancient times as food fodder fertilizer and as source of medicine nowadays seaweeds represent an unlimited source of the raw materials used in pharmaceutical food industries medicine and cosmetics they are nutritionally valuable as fresh or dried vegetables or as ingredients in a wide variety of prepared foods in particular seaweeds contain significant quantities of protein lipids minerals and vitamins there is limited information about the role of algae and algal metabolites in medicine only a few taxa have been studied for their use in medicine many traditional cultures report curative powers from selected algae in particular tropical and subtropical marine forms this is especially true in the maritime areas of asia where the sea plays a significant role in daily activities nonetheless at present only a few genera and species of algae are involved in aspects of medicine and therapy beneficial uses of algae or algal products include those that may mimic specific manifestations of human diseases production of antibiotic compounds or improvement of human nutrition in obstetrics dental research thalassotherapy and forensic medicine

The Marine Algae of New England 1891 a practical field guide to the common lichens found in the northeastern megalopolis including new york city toronto boston new haven philadelphia baltimore washington d c and as far west as chicago lichens are dynamic symbiotic organisms formed by close cooperation between fungi and algae there are over 20 000 identified species performing essential ecosystem services worldwide extremely sensitive to air pollution they have returned to cities from which they were absent for decades until the air became cleaner this guide is the first to introduce urban naturalists to over 60 of the common lichens now found in cities and urban areas throughout northeastern north america in parks and schoolyards on streets and in open spaces divided into three sections lichen basics including their biology chemistry morphology and role in human history species accounts and descriptions and an illustrated glossary index and references for further reading the book aims to connect city dwellers and visitors with the natural world around them the descriptions exquisite photographs and line drawings will enable users to enter the hidden world of lichens

Marine Algal Assay Procedure 1974 algae materials applications benefitting health offers a comprehensive analysis of biosensors algae materials for clinical applications algae polymers proteins and pigments algae for food applications and packaging blue economy algae forming cosmetics and more the book enlists the less explored areas of algal bioproducts including how the application of genetic engineering is currently used to enhance bioproducts even though there are numerous

reviews and scattered documents available there are some recent fields yet to explore offers a comprehensive analysis of biosensors algae materials for clinical applications algae polymers proteins and pigments algae for food applications and packaging enlists the less explored areas of algal bioproducts like how applications of genetic engineering are used to enhance bioproducts includes recent findings and often excluded areas in microalgae research available in a single source Marine Algae of New England and Adjacent Coast 1881 algae and aquatic macrophytes in cities bioremediation biomass biofuels and bioproducts introduces the concept of using the natural ability of plants such as algae and aquatic macrophytes to remediate pollutants from water the book provides scientists with a green economical and successful option when tackling rising water pollution the book's chapters cover a range of areas including bioremediation biomass biofuels and bioproducts during the remediation of polluted water systems it draws together research from eminent scientists from across the globe and includes case studies to help researchers students scientists stakeholders policymakers and environmentalists understand and perform their research with greater ease presents multiple case studies from global perspectives focuses on bioremediation biomass biofuels and bioproducts for water pollution a new approach provides basic knowledge on how to design grow and use algae and aquatic macrophytes

Algae 2022-12-13 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

Algae Abstracts 2012-12-06 next generation algae the book comprehensively details the novel and biologically active compounds derived from algae for sustainable healthcare delivery that could be used for the treatment of an ever increasing population prevention of high rate of morbidity rates as well as in the treatment of numerous diseases and serve as an alternative drug for the prevention of

high level of resistance to synthetic drugs this second volume places a special emphasis on the discovery of novel and biologically active compounds from algae it covers a wide range of applications including the use of astaxanthin and carotenoids derived from algae for the production of nutraceuticals pharmaceuticals additives food supplements and feed the book also discusses the production of polyunsaturated fatty acids pufas and their biomedical applications recent advancements in the research of sulfated polysaccharides from algal origin and their antiulcer bioactivities other topics include the application of algae in wound healing the use of nanotechnology for the bioengineering of useful metabolites derived from algae and their multifaceted applications and the production of single cell proteins and pigments with high relevance in the industry audience researchers in industry and academia as well as clinicians in the fields of microbiology biotechnology and food science will find this book very pertinent

Biogeography of Freshwater Algae 2013-06-29 a detailed description of marine and freshwater algae published in 1916 as the first of the cambridge botanical handbooks series

Therapeutic and Nutritional Uses of Algae 2018-01-29 in the marine environment single celled microscopic plant like organisms naturally occur in the well lit surface layer of any body of water these organisms referred to as phytoplankton or microalgae form the base of the food web upon which nearly all other marine organisms depend algal bloom is a rapid increase in or accumulation of the population of about 300 species of algae due to excess nutrients eutrophication and is of major global interest as it causes reduction in species diversity abrupt changes in water quality and discoloration of the water green yellow brown or red depending on the species of algae and the type of pigments they contain dying blooms can also be an environmental concern as when the cells sink and decay bacteria break down the organic material which in turn strips oxygen from the water this microbial oxygen demand at times leads to very low oxygen levels in the bottom waters harming aquatic life documentation of this sporadic high abundance of algae together with the significant species richness of the diatoms requires comprehensive studies in the sundarban coastal environment which is facing severe degradation due to natural anthropogenic stressors in addition a better understanding of the effects of algal blooms on seafood quality the complex biological chemical and physical interactions and subsequent effects on trophodynamics is needed to develop strategies for effective coastal zone management the book discusses the occurrence of harmful algal blooms habs caused by the dinoflagellates of the genus alexandrium and karenia or diatoms of the genus pseudo nitzschia which have large and varied impacts on marine ecosystems such as large scale marine mortality events that have been associated with various types of shellfish poisonings depending on the species involved the environment where they are found and the mechanism by which they exert negative effects habs represent a major environmental problem in all regions of the u s and their occurrence is on the rise due to increased nutrient pollution habs have severe impacts on human health aquatic ecosystems and the economy such blooms known colloquially as red tides due to their red or brown hues are increasing in frequency and magnitude worldwide as a result of changes in

oceanic climate increased coastal eutrophication and enhanced long distance dispersal in ballast water as such the book offers an in depth account of the complex biological chemical and physical interactions of the algal blooms both innocuous and harmful ones it also discusses the highly topical issue of the impact of global climate change on the frequency and severity of HABs in the context of alterations in temperature stratification light and ocean acidification focusing on both basic and applied limnology this book is a reliable and up to date reference resource for students teachers and researchers engaged in the field of coastal research management at regional and global scales

Urban Lichens 2021 this volume contains the lectures and seminars given at the nato advanced study institute on sensor systems for biological threats the algal toxins case held in pisa italy in october 2007 the institute was sponsored and funded by the scientific affairs division of nato it is my pleasant duty to thank this institution this asi offered updated information on how far the research on algal toxins has gone in the exploration of structures biosynthesis and regulation of toxins and the development of technology for bio monitoring these cyanobacteria can form heavy growths in ponds lakes reservoirs and slow moving rivers throughout the world algae can house toxins which are usually released into water when the cells rupture or die hundreds of toxins have been identified so far detection methods including rapid screening have been developed to help us learn more about them especially to find out which toxins are a real threat for people and what conditions encourage their production and accumulation early detection of algal toxins is an important aspect for public safety and natural environment and significant efforts are underway to develop effective and reliable tools that can be used for this purpose

Lipids in Cyanobacteria, Algae, and Plants - From Biology to Biotechnology 2022-02-17 this book is a compendium of knowledge on the useful properties of algae in the context of application as a useful component of innovative natural products it presents all aspects of industrial applications of macroalgae biomass derived from the natural environment despite many interesting characteristics algae are still regarded as undervalued raw material therefore present in the following chapters are not only environmental benefits arising from the development of excessive algal biomass but also the distribution and biology of algae in natural conditions in reservoirs methods of obtaining extracts from biomass of algae for industrial purposes furthermore it also includes topics such as the use of biomass and algae extracts for the industrial purposes in animal breeding and for agricultural purposes as well as the economic aspects of algae biomass harvesting for industrial purposes the book is intended for a wide audience interested in new methods of obtaining the biomass from the natural environment for industrial purposes and the manufacture of products based on bioactive substances obtained from the environment

Algae Materials 2023-02-22 this book provides a comprehensive overview of value added products from algae presenting the fundamentals of algal cultivation metabolism harvest and cellular pathways of phytochemicals biosynthesis it offers sufficient details for both experts and non experts to grasp the recent progress in this field the book also discusses new phytochemicals and advancements in

technology development from separation to scale up commercialization divided into 18 chapters the book begins with an introduction to the value of algae as a renewable resource followed by an authoritative overview of topics such as algae cultivation systems harvesting techniques phytochemical analysis artificial intelligence in phytochemical recognition and bioprocess engineering additional chapters cover various aspects of algal biotechnology including biorefinery technology biofuel integrated routes and the use of wastewater for algal growth the book also explores high throughput screening methods for microalgae based phytochemicals and examines the catalytic processes involved in algal bioprocessing cutting edge topics such as omics approaches for algal applications algal based biopolymers diatom nanostructured biosilica and the potential of seaweeds in methane emission mitigation are also explored in this book readers will discover the recent technological applications of algae in aquaculture and will find a case study on the functional food potential of spirulina recognizing the importance of legislation and biosecurity in the field the last chapter of the book addresses the regulatory frameworks and biosecurity measures necessary for the safe and sustainable development of algal biotechnology given its breadth the book is a valuable resource for scholars researchers and professionals interested in algal biotechnology sustainability biomass conversion and new algal products from any perspective

Algae and Aquatic Macrophytes in Cities 2022-07-27 algae are ubiquitous a multitude of species ranging from microscopic unicells to gigantic kelps inhabit the world's oceans freshwater bodies soils rocks and trees to understand the basic role of algae in the global ecosystem a reliable and modern introduction to their kaleidoscopic diversity systematics and phylogeny is indispensable this volume provides such an introduction the text represents a completely revised and updated edition of a highly acclaimed german textbook which was heralded for its clarity as well as its breadth and depth of information this new edition takes into account recent re evaluations in algal systematics and phylogeny which have been made necessary by insights provided by the powerful techniques of molecular genetics and electron microscopy as well as more traditional life history studies

Ice and Snow Algae 2022-04-05 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

Algae ... 1916 harnessing the sun's energy via photosynthesis is at the core of sustainable production of food fuel and materials by plants algae and cyanobacteria photosynthesis depends on photoprotection against intense sunlight starting with the safe removal of excess excitation energy from the light harvesting system which can be quickly and non destructively assessed via non photochemical quenching of chlorophyll fluorescence npq by placing npq into the context of whole organism function this book aims to contribute towards identification of plant and algal lines with superior stress resistance and productivity by addressing agreements and open questions concerning photoprotection's molecular mechanisms this book contributes towards development of artificial photosynthetic systems a comprehensive picture from single molecules to organisms in ecosystems and from leading expert's views to practical information for non specialists on npq measurement and terminology is presented

Algae 1916 among the most important innovations in the history of life is the transition from single celled organisms to more complex multicellular organisms multicellularity has evolved repeatedly across the tree of life resulting in the evolution of new kinds of organisms that collectively constitute a significant portion of earth's biodiversity and have transformed the biosphere this volume examines the origins and subsequent evolution of multicellularity reviewing the types of multicellular groups that exist their evolutionary relationships the processes that led to their evolution and the conceptual frameworks in which their evolution is understood this important volume is intended to serve as a jumping off point stimulating further research by summarizing the topics that students and researchers of the evolution of multicellularity should be familiar with and highlighting future research directions for the field

Algae Biotechnology 2016-03-09 algae for food cultivation processing and nutritional benefits algae are a primitive living photosynthetic form and they are the oldest living organism in the marine ecosystem algae are the primary producers that supply energy required to a diverse marine organism and especially seaweed provides a habitat for invertebrates and fishes there have been significant advances in many areas of phycology this book describes the advances related to food and nutrition of algae achieved during the last decades it also identifies gaps in the present knowledge and needs for the future the 17 chapters grouped into 6 parts are written by phycologists more insight on industrial exploitation of algae and their products is supported by current studies and will help academia the first part explains new technologies to improve the microalgal biomass strain improvement and different methods of seaweed cultivation in the second part food and nutraceutical applications of algae food safety aspects green nanotechnology and formulation methods for the extraction and isolation of

algal functional foods are described the third part deals with pigments and carotenoids while the fourth part exploits the isolation and application of hydrocolloids nutritional implications of algal polysaccharides and the characterization and bioactivity of fucoidans in the fifth part the biomedical potential of seaweed followed by agricultural applications of algae are well described the book is an important resource for scholars that provides knowledge on wide range of topics key features covers important fields of algae from biomass production to genetic engineering aspects of algae useful in the field of algal biotechnology aquaculture marine micro and macrobiology microbial biotechnology and bioprocess technology focuses on the therapeutic and nutritional areas of algae

Next-Generation Algae, Volume 2 2023-05-31 when biology of the red algae was first published in 1990 it was the first comprehensive monograph to be written on the rhodophyta in over fifteen years this book presents an authoritative review on the state of knowledge on the biology of the red algae written by a group of 26 internationally renowned experts the eighteen chapters of biology of the red algae range from molecular and cellular to biochemical physiological organismal and ecological aspects of this important group of algae together they will be of interest for students of oceanography and plant evolution

Algae: Volume 1, Myxophyceae, Peridinieae, Bacillarieae, Chlorophyceae 2010-10-31 algae based bioelectrochemical systems for carbon sequestration carbon storage bioremediation and bioproduct generation explores the integration of carbon capture storage and sequestration technologies with bioelectrochemical fuels cells befc showing how conventional technologies can be renovated to aid in the reduction in ghg emissions and simultaneously optimize befc performance the book focuses on the integration of algal biogas upgradation with electrochemical systems providing a guide to the renovation of conventional technologies to combine energy production and carbon sequestration chapters discuss the latest advancements in carbon sequestration biocatalyst and microbial platforms and integrations for rapid carbon biotransformations in addition the book highlights the potential of algae and chemolithotrophs as candidates for carbon delivery biocatalyst orientation and architecture for optimal befc performance addresses the modification of carbon materials in the strengthening and application of bioelectrochemical fuel cells highlights the application of bioelectrochemical systems in carbon sequestration and utilization discusses the frontiers of carbon storage biocatalysts such as algae and chemolithotrophs includes content supported by analytical tools and detailed schematics and process diagrams that outline the integration of carbon sequestration with bioelectrochemical systems

Marine Algal Bloom: Characteristics, Causes and Climate Change Impacts 2018-05-02 continuous discoveries in plant and crop physiology have resulted in an abundance of new information since the publication of the second edition of the handbook of plant and crop physiology necessitating a new edition to cover the latest advances in the field like its predecessors the third edition offers a unique complete collection of topics in plant and crop physiology serving as an up to date resource in the field this edition contains more than 90 percent new material and the remaining 10 percent has been updated and substantially revised divided into nine parts to make the information more accessible this

handbook covers the physiology of plant and crop growth and development cellular and molecular aspects and production processes it addresses the physiological responses of plants and crops to environmental stresses heavy metals and agrichemicals presents findings on small rnas in response to temperature stress and discusses the use of bioinformatics in plant crop physiology the book deals with the impacts of rising co2 levels and climate change on plant crop growth development and production it also offers guidance on plants and crops that can be successfully cultivated under more stressful conditions presented in six chapters that examine alleviation of future food security issues with contributions from 105 scientists from 17 countries this book provides a comprehensive resource for research and for university courses covering plant physiological processes ranging from the cellular level to whole plants the content provided can be used to plan implement and evaluate strategies for dealing with plant and crop physiology problems this edition includes numerous tables figures and illustrations to facilitate comprehension of the material as well as thousands of index words to further increase accessibility to the desired information

Algal Toxins: Nature, Occurrence, Effect and Detection 2008-06-27

Algae Biomass: Characteristics and Applications 2018-07-09

Value-added Products from Algae 2023-12-01

Algae 1995

Algae and Sustainable Technologies 2020-11-09

Non-Photochemical Quenching and Energy Dissipation in Plants, Algae and Cyanobacteria 2014-11-22

The Evolution of Multicellularity 2022-06-07

Algae for Food 2021-10-25

Biology of the Red Algae 1990-11-30

Algae Based Bioelectrochemical Systems for Carbon Sequestration, Carbon Storage, Bioremediation and Bioproduct Generation 2023-12-10

Coralline Algae: Globally Distributed Ecosystem Engineers 2020-07-08

Separation of Algal Cells from Wastewater Lagoon Effluents 1978

Handbook of Plant and Crop Physiology, Third Edition 2014-03-21