

Algae Anatomy Biochemistry And Biotechnology Second Edition

Examining Fungi and Protists Louise Eaton 2017-12-15 The amazing diversity of fungi, protists, and algae is, in many instances, difficult to detect with the naked eye. Readers will learn all about the internal structures, genetic material, biochemical processes, and taxonomy that define these varied, small yet complex eukaryotic organisms. This volume demonstrates the many important functions that fungi, protists, and algae serve in the natural world, as well as in the lives of humans through various foods, medicines, and biotechnologies.

An Integration of Phycoremediation Processes in Wastewater Treatment Maulin P Shah 2021-08-27 An Integration of Phycoremediation Processes in Wastewater Treatment reviews the potential of microalgae to treat wastewater containing highly recalcitrant compounds whose degradation is not achieved by the conventional existing treatments. In addition, the book describes how the microalgae collected after wastewater treatment can be used for obtaining added-value products, hence closing the loop and contributing to a circular economy. Finally, the technoeconomical aspects of this green technology are addressed, along with the design and development of photobioreactors, genetic aspects, metagenomics and metabolomics. Deals with emerging aspects of algal research, with a special reference to phycoremediation Covers diversity, mutations, genomics, metagenomics, eco-physiology, culturing, microalgae for food and feed, biofuel production, harvesting of microalgae, separation and purification of biochemicals Describes the techno-economical assessment, microalgal biotechnology and algal-bacterial systems for wastewater treatment Presents complex issues associated with cutting-edge biotechnological tools and techniques like next-generation sequencing methods, metabolomics and bioreactor design and development

Lichen Biology Thomas H. Nash 1996-01-26 A broad-ranging review of organisms which have long-fascinated biologists, ecologists and chemists.

Algae Refinery Sanjeet Mehariya 2023-12-18 Algae Refinery: Up- and Downstream Processes offers complete coverage of algae refinery, including up- and downstream processes while proposing an integrated algal refinery for the advancement of existing technologies and summarizing the strategies and future perspectives of algal refinery. It provides a concise introduction to the algal science, biology, technology, and application of algae. It explains downstream and upstream steps of algal refinery for the production of algal biomass, with several social benefits. Features: Provides various aspects of algal bioprocess including upstream and downstream processes Explains the major research streams of algae structures and their pathways Covers algal-based CO₂ capture technology Explores the potential applications of algae for socioeconomical benefits Deliberates algal bioremediation approach for clean and sustainable development

Bioremediation and Green Technologies Prashanthi Devi Marimuthu 2021-04-08 This book offers insights into the recent research focusing on green solutions to address environmental pollution and its impacts. Bioremediation is a vast area that encompasses numerous innovative and cost-effective experimental and research methods involving numerous technologies, such as biotechnological, biochemical, microbial, marine, chemical and engineering approaches. Featuring original research and review articles by leading experts, the book explores potential solutions to the growing issues of waste management and environmental pollution and their impacts, and suggests future research directions. As such, it is a valuable resource for professionals and general readers alike.

Color Atlas of Biochemistry Jan Koolman 2011-01-01 Totally revised and expanded, the Color Atlas of Biochemistry presents the fundamentals of human and mammalian biochemistry on 215 stunning color plates. Alongside a short introduction to chemistry and the classical topics of biochemistry, the 2nd edition covers new approaches and aspects in biochemistry, such as links between chemical structure and biological function or pathways for information transfer, as well as recent developments and discoveries, such as the structures of many new important molecules. Key features of this title include:- The unique combination of highly effective color graphics and comprehensive figure legends;- Unified color-coding of atoms, coenzymes, chemical classes, and cell organelles that allows quick recognition of all involved systems;- Computer graphics provide simulated 3D representation of many important molecules. This Flexibook is ideal for students of medicine and biochemistry and a valuable source of reference for practitioners.

Algae Laura Barsanti 2014-03-05 A single-source reference on the biology of algae, *Algae: Anatomy, Biochemistry, and Biotechnology, Second Edition* 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. The authors have gathered a significant amount of new material since the publication of the first edition. This completely revised second edition contains many changes and additions including the following: All revised and rewritten tables, plus new figures, many in color A fascinating new chapter: Oddities and Curiosities in the Algal World Expanded information on algal anatomy Absorption spectra from all algal divisions, chlorophylls, and accessory pigments Additional information on collection, storage, and preservation of algae Updated section on algal toxins and algal bioactive molecules The book's unifying theme is on 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.

Marine Algae Leonel Pereira 2014-09-26 This book is divided into three thematic areas. The first covers a revision of the taxonomy of algae, based on the algae portal, as well as the general aspects of biology and the methodologies used in this branch of marine biology. The second subject area focuses on the use of algae in environmental assessment, with an intensive implementation in Western economies and some emerging economies. The third topic is the potential use of algae in various industries including food, pharmaceuticals, cosmetics, agricultural fertilizers, and the emerging biofuels industries.

Advances in Algal Cell Biology Kirsten Heimann 2013-01-01 Molecular research on algae over the last decades has provided significant insights into universal biological mechanisms. This knowledge has proved essential to the field of biotechnology where research on new applications in food culture, biofuel and pharmaceuticals is underway. This new book on algal cell biology provides an overview of cutting-edge research with a focus on cytoskeleton structure/function and cytokinesis of algae.

Photosynthesis Juan Cristóbal García Cañedo 2018-09-19 This book is a compilation. It starts from the origins of the photosynthetic capacity of organisms with a summary of the evolution of photosynthesis. This is followed by a concise description of the photosynthetic process and a discussion of the role that light, nutrients, and cultivation play in the photosynthetic process using examples in each case. Finally, the book explains future improvements in the field by applying nanotechnology to improve photosynthetic productivity, explaining how crop productivity can be increased by engineering crop plants for tolerance against various environmental stresses and improving yield attributes, especially photosynthetic efficiency using nanomaterials.

Handbook of Algal Science, Technology and Medicine Ozcan Konur 2020-03-28 Handbook of Algal Science, Microbiology, Technology and Medicine provides a concise introduction to the science, biology, technology and medical use of algae that is structured on the major research fronts of the last four decades, such as algal structures and properties, algal biomedicine, algal genomics, algal toxicology, and algal bioremediation, algal photosystems, algal ecology, algal bioenergy and biofuels. It also covers algal production for biomedicine, algal biomaterials, and algal medicinal foods within these primary sections. All chapters are authored by the leading researchers in their respective research fields. Our society currently faces insurmountable challenges in the areas of biomedicine and energy in the face of increasing global population and diminishing natural resources as well as the growing environmental and economic concerns, such as global warming, greenhouse gas emissions and climate change. Algae offer a way to deal with these challenges and concerns for both sustainable and environment friendly bioenergy production and in biomedicine through the development of crucial biotechnology. Provides an essential interdisciplinary introduction and handbook for all the

stakeholders engaged in science, technology and medicine of algae Covers the major research streams of the last four decades, ranging from algal structures, to algal biomedicine and algal bioremediation Fills a significant market opening for an interdisciplinary handbook on algal science, technology and medicine

Experiments in Soil Biology and Biochemistry Fran Russell & Danni Gilmore 2018-08-14 Soil science is the study of soil as a natural resource on the surface of the Earth including soil formation, classification and mapping; physical, chemical, biological, and fertility properties of soils; and these properties in relation to the use and management of soils. Soil biology is the study of microbial and faunal activity and ecology in soil. Soil life, soil biota and soil fauna are collective terms that encompasses all organisms that spend a significant portion of their life cycle within a soil profile, or at the soil-litter interface. Soils are rich ecosystems, composed of both living and non-living matter with a multitude of interaction between them. Soils play an important role in all of our natural ecological cycles. They also provide benefits through their contribution in a number of additional processes, called ecosystem services. These services range from waste decomposition to acting as a water filtration system to degrading environmental contaminants. Soil biochemistry is one of the branches of soil science dealing with the formation and decomposition of soil organic matter, biochemical reactions of carbon, nitrogen, phosphorus, sulfur, metals and xenobiotic in soils, and biochemistry of the plant-root rhizosphere. The book will suit to the needs of students, teachers, scholars and general readers.

Phycology Robert Edward Lee 2008-03-27 Phycology is the study of algae, the primary photosynthetic organisms in freshwater and marine food chains. As a food source for zooplankton and filter-feeding shellfish, the algae are an extremely important group. Since the publication of the first edition in 1981, this textbook has established itself as a classic resource on phycology. This revised edition maintains the format of previous editions, whilst incorporating more recent information from nucleic acid sequencing studies. Detailed life-history drawings of algae are presented alongside information on the cytology, ecology, biochemistry, and economic importance of selected genera. Phycology is suitable for upper-level undergraduate and graduate students following courses in phycology, limnology or biological oceanography. Emphasis is placed on those algae that are commonly covered in phycology courses, and encountered by students in marine and freshwater habitats.

Plant-Based Genetic Tools for Biofuels Production Daniela Defavari do Nascimento 2017-06-12 Biofuels are currently used as a viable alternative energy source in several countries. Plant-Based Genetic Tools for Biofuels Production explains biotechnological techniques and concepts that are applied to increase biofuel yield from plants and algae. Chapters of the book cover a variety of topics: the basic research techniques (cell suspension, embryogenesis, protoplast fusion), plant genetics (plant DNA mutations, new plant breeding techniques, viral genetic vectors for heterologous gene expression, sub cellular proteomes), genomic resources and bioinformatics tools, plant species with bioenergy and biofuel potential, factors influencing biomass yield, advances in cultivation technologies, fermentation of different substrates for ethanol production, and microalgae biomass technologies. Readers will gain a thorough understanding of modern biofuel production. Plant-Based Genetic Tools for Biofuels Production is a suitable reference for students in biotechnology and bioinformatics programs as well as researchers interested in information about the basics of biofuel production.

Gene Biotechnology William Wu 2016-04-19 Covering state-of-the-art technologies and a broad range of practical applications, the Third Edition of Gene Biotechnology presents tools that researchers and students need to understand and apply today's biotechnology techniques. Many of the currently available books in molecular biology contain only protocol recipes, failing to explain the princ

Principles and Techniques of Biochemistry and Molecular Biology Keith Wilson 2010-03-04 This best-selling undergraduate textbook provides an introduction to key experimental techniques from across the biosciences. It uniquely integrates the theories and practices that drive the fields of biology and medicine, comprehensively covering both the methods students will encounter in lab classes and those that underpin recent advances and discoveries. Its problem-solving approach continues with worked examples that set a challenge and then show students how the challenge is met. New to this edition are case studies, for example, that illustrate the relevance of the principles and techniques to the diagnosis and treatment of individual patients. Coverage is expanded to include a section on stem cells, chapters on immunochemical techniques and spectroscopy techniques, and additional chapters on drug discovery and development, and clinical biochemistry. Experimental design and the statistical analysis of data are emphasised throughout to ensure students are equipped to successfully plan their own experiments and examine the results obtained.

Algae Laura Barsanti 2005-11-14 An exhaustive review on all things algae would require a multi-volume encyclopedic work. Even then, such a tome would prove to be of limited value, as in addition to being quite complex, it would soon be outdated, as the field of phycology is full of continual revelations and new discoveries. *Algae: Anatomy, Biochemistry, and Biotechnology* o

Modern Technologies in Energy and Transport Sergii Boichenko 2023-11-30 The book is composed of 15 chapters in total. All chapters presented by the authors (co-authors) are published in the author's edition and aim to present an issue on how to achieve more sustainable and more environmentally safe development of modern transport and energy sector. The chapters are grouped into 3 parts. The first part "Decisions for alternative energy sources use in modern transport" represents novel solutions in alternative energy sources development and implementation in different spheres of the modern transport sector. The second part "Solutions for reducing negative impact of energy and transport on environment" is devoted to advances in technologies aimed on reducing impact of energy and transport sectors on environment and utilization of waste. The third part of the book "Advance in alternative motor fuels technology" represents recent developments in chemical technology of alternative fuels production and aspects of modern fuels quality control.

Algae and Sustainable Technologies Atul Kumar Upadhyay 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.

Handbook of Research on Algae as a Sustainable Solution for Food, Energy, and the Environment El-Sheekh, Mostafa M. 2022-06-03 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 it. 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.

Enzyme Kinetics and Regulation Aaren Bennett 2018-07-07 We live in the age of science-the human and numerous other living beings' genomes have been sequenced and we are beginning to understand the capacity

of the metabolic machinery responsible for life on our planet. A huge number of new genes have been discovered, a significant number of these coding for enzymes of yet obscure capacity. Understanding the kinetic behavior of an enzyme provides clues to its possible physiological role. From a biotechnological perspective, knowledge of the reactant properties of an enzyme is required for the design of immobilized enzyme-based modern processes. Biotransformations are of key importance to the pharmaceutical and sustenance industries, and knowledge of the reactant properties of enzymes, essential. This book is tied in with understanding the principles of enzyme kinetics and knowing how to use mathematical models to describe the reactant capacity of an enzyme. Coverage of the material is in no way, shape or form exhaustive. There exist many books on enzyme kinetics that offer intensive, in-depth treatises of the subject. Intracellular and extracellular physiological cascades are regulated by initiation and hindrance of different enzymes involved in these pathways. Investigating and understanding the mechanism of enzyme hindrance has become the premise of development of pharmaceutical agents. Organically active regular and synthetic inhibitors have been developed and special emphasis has been placed on investigations that define their structure-work relationships in an effort to understand the inception of their natural properties. A powerful complement to the assessment of these agents is the preparation and subsequent examination of key fractional structures, deep-seated auxiliary adjustments and the corresponding unnatural enantiomers of characteristic items. We sincerely hope that this book will represent an element in the tool kit of graduate students in applied science and chemical and biochemical engineering and furthermore of undergraduate students with formal preparing in natural chemistry, biochemistry, thermodynamics and chemical reaction kinetics.

ALGAE LAURA. GUALTIERI BARSANTI (PAOLO.) 2023

Clinical Biochemistry and Pathology Rene Church 2018-06-14 Clinical biochemistry is an analytical and interpretative science. The analytical part involves the determination of the level of chemical components in body fluids and tissues. Clinical chemistry is the area of chemistry that is generally concerned with analysis of bodily fluids for diagnostic and therapeutic purposes. It is an applied form of biochemistry. The discipline originated in the late 19th century with the use of simple chemical reaction tests for various components of blood and urine. In the many decades since, other techniques have been applied as science and technology have advanced, including the use and measurement of enzyme activities, spectrophotometry, electrophoresis, and immunoassay. There are now many blood tests and clinical urine tests with extensive diagnostic capabilities. Clinical pathology covers a wide range of laboratory functions and is concerned with the diagnosis, treatment, and prevention of disease. Clinical pathologists are healthcare providers with special training who often direct all of the special divisions of the lab. This may include the blood bank, clinical chemistry and biology, toxicology, hematology, immunology and serology, and microbiology. Clinical pathology also involves maintenance of information systems, research, and quality control. This book is designed to cover the major techniques and analytical instruments used in clinical biochemistry and clinical pathology.

Ecology of Marine Bivalves Richard F. Dame 2016-04-19 Exploring the potential use of bivalves as indicators and monitors of ecosystem health, this book describes live and computer simulated experiments, mesocosm studies, and field manipulation experiments. This second edition discusses major new developments, including phase shifts in many coastal and estuarine ecosystems dominated by suspension-feeding bivalves, the invasion or introduction of alien bivalve species, the rapid growth of environmental restoration focused on bivalves, and the examination of geological history with regard to global climate change and its impact on bivalve-dominated systems.

Fuel Processing and Energy Utilization Sonil Nanda 2019-02-22 This book provides different aspects on fuel processing and refinery for energy generation. Most updated research findings along with case studies, real scenario examples, and extensive analyses of original research work and literature reviews is included in this book.

Chemical Catalysts for Biomass Upgrading Mark Crocker 2020-03-09 A comprehensive reference to the use of innovative catalysts and processes to turn biomass into value-added chemicals Chemical Catalysts for Biomass Upgrading offers detailed descriptions of catalysts and catalytic processes employed in the synthesis of chemicals and fuels from the most abundant and important biomass types. The contributors' noted experts on the topic focus on the application of catalysts to the pyrolysis of whole biomass and to the upgrading of bio-oils. The authors discuss catalytic approaches to the processing of biomass-derived oxygenates, as exemplified by sugars, via reactions such as reforming, hydrogenation, oxidation, and condensation reactions. Additionally, the book provides an overview of catalysts for lignin valorization via oxidative and reductive methods and considers the conversion of fats and oils to fuels and terminal olefins by means of esterification/transesterification, hydrodeoxygenation, and decarboxylation/decarbonylation processes. The authors also provide an overview of conversion processes based on terpenes and chitin, two emerging feedstocks with a rich chemistry, and summarize some of the emerging trends in the field. This important book: -Provides a comprehensive review of innovative catalysts, catalytic processes, and catalyst design -Offers a guide to one of the most promising ways to find useful alternatives for fossil fuel resources -Includes information on the most abundant and important types of biomass feedstocks -Examines fields such as catalytic cracking, pyrolysis, depolymerization, and many more Written for catalytic chemists, process engineers, environmental chemists, bioengineers, organic chemists, and polymer chemists, Chemical Catalysts for Biomass Upgrading presents deep insights on the most important aspects of biomass upgrading and their various types.

Using the Biological Literature Diane Schmidt 2014-04-14 The biological sciences cover a broad array of literature types, from younger fields like molecular biology with its reliance on recent journal articles, genomic databases, and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries. *Using the Biological Literature: A Practical Guide, Fourth Edition* is an annotated guide to selected resources in the biological sciences, presenting a wide-ranging list of important sources. This completely revised edition contains numerous new resources and descriptions of all entries including textbooks. The guide emphasizes current materials in the English language and includes retrospective references for historical perspective and to provide access to the taxonomic literature. It covers both print and electronic resources including monographs, journals, databases, indexes and abstracting tools, websites, and associations—providing users with listings of authoritative informational resources of both classical and recently published works. With chapters devoted to each of the main fields in the basic biological sciences, this book offers a guide to the best and most up-to-date resources in biology. It is appropriate for anyone interested in searching the biological literature, from undergraduate students to faculty, researchers, and librarians. The guide includes a supplementary website dedicated to keeping URLs of electronic and web-based resources up to date, a popular feature continued from the third edition.

Algae Materials K. Arunkumar 2023-02-22 *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

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; aeropylsinin-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.

Algae Laura Barsanti 2005-11-14 An exhaustive review on all things algae would require a multi-volume encyclopedic work. Even then, such a tome would prove to be of limited value, as in addition to being quite complex, it would soon be outdated, as the field of phycology is full of continual revelations and new discoveries. *Algae: Anatomy, Biochemistry, and Biotechnology* offers students and researchers in phycology a more practical and useful approach. Instead of trying to offer a little bit of everything, the authors concentrate on highlighting especially interesting and illuminating topics, with the idea of inciting the sort of wonder and curiosity in undergraduate and post-graduate students that will encourage further outstanding work. The chapters can be read in progression to provide structure to a semester, or each can be read on its own as a self-contained essay to supplement other work. Written and designed for those with a general scientific background, the book covers freshwater, marine, and terrestrial forms. Its early chapters present an overview of the classification of the algae; these chapters are followed by reviews of life cycles, reproductions, and phylogeny, providing a conceptual framework that promotes a deeper understanding of more complex topics. Levels of organization are examined from the subcellular, cellular, and morphological standpoints, leading to discussions involving physiology, biochemistry, culture methods, and finally, the role of algae in human society. New findings are provided to demonstrate that the world of algae is still ripe with discovery for those students who keep their eyes and their minds active and open. *Algae: Anatomy, Biochemistry, and Biotechnology* stands as a hybrid, offering something of a cross between a typical review and a descriptive monograph. The work makes it possible for students to visualize and compare algal structure. It also supplies carefully selected literature references that direct researchers to an abundance of precise details from original sources.

The Role of Bioenergy in the Emerging Bioeconomy Carmen Lago 2018-10-30 *The Role of Bioenergy in the Bioeconomy: Resources, Technologies, Sustainability and Policy* provides the reader with a complete understanding on how bioenergy technologies fit into the new bioeconomy paradigm. Sections focus on the main resources and technologies for bioenergy and its integration in energy systems and biorefining chains, analyze the available methodologies for assessing the sustainability of bioenergy, and address and the propose approaches that are demonstrated through concrete case studies. Additionally, the implications of bioenergy in the water-energy and land nexus is presented, along with new challenges and opportunities. This book's strong focus on sustainability of bioenergy, both as a standalone, and in the larger context of a bio-based economy, makes it a useful resource for researchers, professionals and students in the bioenergy field who need tactics to assess the lifecycle and sustainability of bioenergy technologies and their integration into existing systems. Presents a complete overview of the main challenges that bioenergy will have to overcome in order to play a key role in future energy systems Explores sustainability aspects in detail, both qualitatively and by applying proposed methodologies to concrete bioenergy case studies Covers, in detail, the water-energy-land nexus implications and governance aspects

The Algae World Dinabandhu Sahoo 2015-12-16 *Algal World* has been carefully written and edited with an interdisciplinary appeal and aims to bring all aspects of Algae together in one volume. The 22 chapters are divided into two different parts which have been authored by eminent researchers from across the world. The first part, *Biology of Algae*, contains 10 chapters dealing with the general characteristics, classification and description of different groups such as Blue Green Algae, Green Algae, Brown Algae, Red Algae, Diatoms, Xanthophyceae, Dinophyceae, etc. In , it has two important chapters covering *Algae in Extreme Environments and Life Histories and Growth Forms in Green Algae*. The second part, *Applied Phycology*, contains 12 chapters dealing with the more applied aspects ranging from *Algal Biotechnology, Biofuel, Phycoremediation, Bioactive Compounds, Biofertilizer, Fatty Acids, Harmful Algal Blooms, Industrial Applications of Seaweeds, Nanotechnology, Phylogenomics and Algal culture Techniques*, etc.

Microalgae as a Source of Bioenergy: Products, Processes and Economics José Carlos Magalhães Pires 2017-09-27 *Microalgae* could play an important role in the achievement of sustainability goals related to the generation of renewable energy and greenhouse gas (GHG) emissions. These photosynthetic microorganisms are able to capture CO₂ and, therefore, can be used to produce biofuels such as ethanol, methane and green diesel. Other factors, such as their high growth rate, ability to use wastewater as a culture medium and the ability to grow on non-arable land makes them a potentially economical source of biofuel production on a large scale. This monograph introduces the reader to the basic and applied science of microalgal biofuel production. Chapters in the volume give information about bioethanol and biogas production from microalgal sources, the fermentation process, optimization of culture parameters and industrial applications of biomass projects. The book is a useful reference for biotechnology and environmental science graduates and professionals interested in biofuel production.

Algae Biotechnology Faizal Bux 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.

From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment Gabriela Soreanu 2020-04-03 *From Biofiltration to Promising Options in Gaseous Fluxes Biotreatment: Recent Developments, New Trends, Advances, and Opportunities* provides an overview on the biological tools used for the treatment of the gaseous fluxes, with emphasis on traditional and perspective options, opening new horizons for research and implementation in practice. It is known that air pollution is an emergent global issue and a priority within the international environmental programs. Moreover, technologies based on biological methods are significantly contributing to the sustainable development concept. Thus this book provides tools for solving air pollution issues in a sustainable manner. These issues can be solved at different levels (e.g., "end-of-pipe" gaseous streams, indoor/outdoor air, closed environments), which can be approached by the different biotechniques presented in the book, from classical biofiltration techniques (part 1) to phytotreatment and microalgae-based techniques (part 2). Although all options have their particularities that make them special for certain applications, a special attention is drawn to the potential of the last one, which offers multiple possibilities for biomass valorization. Scientists from worldwide with relevant experience in their field have been contributed to the development of this book. Presents the main biotechnological aspects applied for gas purification, focusing on process understanding, limitations, and capability in different applications Promotes a sustainable future of the biofiltration process by enhancing their performance together with the simultaneously economic and environmental impacts Implements new aspects of scientific research and development in the field

Biochemistry and Forestry Management Caden Jacobs & Fran Russell 2019-09-07 Biochemistry deals with the chemistry of life, and as such it draws on the techniques of analytical, organic, and physical chemistry, as well as those of physiologists concerned with the molecular basis of vital processes. All chemical changes within the organism-either the degradation of substances, generally to gain necessary energy, or the buildup of complex molecules necessary for life processes-are collectively termed metabolism. The origin of cells was the most important step in the evolutionary theory of life on Earth. The birth of the cell marked the passage from pre-biotic chemistry to partitioned units resembling modern cells. The final transition to living entities that fulfill all the definitions of modern cells depended on the ability to evolve effectively by natural selection. Forest management is a branch of forestry concerned with overall administrative, economic, legal, and social aspects, as well as scientific and technical aspects, such as silviculture, protection, and forest regulation. This includes management for aesthetics, fish, recreation, urban values, water, wilderness, wildlife, wood products, forest genetic resources, and other forest resource values. Management can be based on conservation, economics, or a mixture of the two. Techniques include timber extraction, planting and replanting of various species, cutting roads and pathways through forests, and preventing fire. The book is well framed including an introduction of foods and nutrition macro and micro nutrients their working food processing and preservation techniques and nutritional and therapeutic significance of different foods for well being.

Algae L. Barsanti 2006

Molecular Biology of the Cell Bruce Alberts 2004

Protocols for Macroalgae Research Bénédicte Charrier 2018-04-17 This book presents a wide range of tested and proven protocols relevant to a number of fields within biotechnology used in laboratory experiments in everyday phycological (seaweed) research. A major focus will be on bioenergy related aspects of this emerging technology. These protocols will be written in a clear and concise manner using simple language permitting even nonspecialist to adequately understand the significance of this research. It will also contain all necessary notes and guidelines for successful execution of these experiments.

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