

Periphyton

ECOLOGY, EXPLOITATION AND MANAGEMENT



Edited by
M.E. Azim, M.C.J. Verdegem,
A.A. van Dam and M.C.M. Beveridge



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Periphyton Ecology Exploitation And Management

M. Ekram Azim



Periphyton Ecology Exploitation And Management:

Periphyton M. Ekram Azim, 2005-01-01 The first comprehensive monograph on periphyton this book contains contributions by scientists from around the globe Multi disciplinary in nature it covers both basic and applied aspects of periphyton and is applicable worldwide in natural extensive and intensive managed systems Periphyton as described in this book refers to the entire complex of attached aquatic biota on submerged substrates including associated non attached organisms and detritus Thus the periphyton community comprises bacteria fungi protozoa algae zooplankton and other invertebrates Periphyton is important for various reasons as a major contributor to carbon fixation and nutrient cycling in aquatic ecosystems as an important source of food in aquatic systems as an indicator of environmental change It can also be managed to improve water quality in lakes and reservoirs it can greatly increase aquaculture production it can be used in waste water treatment The book provides an international review of periphyton ecology exploitation and management The ecology part focuses on periphyton structure and function in natural systems The exploitation part covers its nutritive qualities and utilization by organisms particularly in aquaculture The final part considers the use of periphyton for increasing aquatic production and its effects on water quality and animal health in culture systems This book will help scientists and entrepreneurs further understand the ecology and production of aquatic systems and venture into new and promising areas

Periphyton Yonghong Wu, 2016-08-29 Periphyton Functions and Application in Environmental Remediation presents a systematic overview of a wide variety of periphyton functions and applications in environmental remediation providing readers with an understanding of the biological ecological features of periphyton the methodology of their study and their application in environmental conservation With increases in environmental stress anthropogenic impacts and the global decline in biodiversity there is a pressing need for methods to assess and improve environmental quality that are rapid reliable and cost effective Periphyton is an important component of benthic communities and plays a crucial role in the functioning of microbial food webs Because of a number of advantages such as a short lifecycle relative immobility more rapid responses to environmental stress and anthropogenic impact than any metazoa ease of sampling availability of taxonomic molecular identification and standardized methodologies for temporal spatial comparisons there has in recent decades been an increased interest in periphyton as a tool in biological conservation in aquatic ecosystems Presents case studies that help readers implement similar ecological designs Focuses on the function of periphyton in remediating destructed ecosystems Provides readers with an understanding of periphyton in practice especially the value of periphyton in enhancing environmental and ecosystem qualities Discusses the role of periphyton in purifying water and its effect on abiotic elements

Periphyton M. E. Azim, Marc C. J. Verdegem, Anne A. van Dam, Malcolm C. M. Beveridge, 2005-11-18 The first comprehensive monograph on periphyton this book contains contributions by scientists from around the globe Multi disciplinary in nature it covers both basic and applied aspects of periphyton and is applicable worldwide in natural extensive

and intensive managed systems Periphyton as described in this book refers to the entire complex of attached aquatic biota on submerged substrates including associated non attached organisms and detritus Thus the periphyton community comprises bacteria fungi protozoa algae zooplankton and other invertebrates Periphyton is important for various reasons as a major contributor to carbon fixation and nutrient cycling in aquatic ecosystems as an important source of food in aquatic systems as an indicator of environmental change It can also be managed to improve water quality in lakes and reservoirs it can greatly increase aquaculture production it can be used in waste water treatment The book provides an international review of periphyton ecology exploitation and management The ecology part focuses on periphyton structure and function in natural systems The exploitation part covers its nutritive qualities and utilization by organisms particularly in aquaculture The final part considers the use of periphyton for increasing aquatic production and its effects on water quality and animal health in culture systems This book will help scientists and entrepreneurs further understand the ecology and production of aquatic systems and venture into new and promising areas

Encyclopedia of Inland Waters ,2009-01-13 Inland aquatic habitats occur world wide at all scales from marshes swamps and temporary puddles to ponds lakes and inland seas from streams and creeks to rolling rivers Vital for biological diversity ecosystem function and as resources for human life commerce and leisure inland waters are a vital component of life on Earth The Encyclopedia of Inland Waters describes and explains all the basic features of the subject from water chemistry and physics to the biology of aquatic creatures and the complex function and balance of aquatic ecosystems of varying size and complexity Used and abused as an essential resource it is vital that we understand and manage them as much as we appreciate and enjoy them This extraordinary reference brings together the very best research to provide the basic and advanced information necessary for scientists to understand these ecosystems and for water resource managers and consultants to manage and protect them for future generations Encyclopedic reference to Limnology a key core subject in ecology taught as a specialist course in universities Over 240 topic related articles cover the field Gene Likens is a renowned limnologist and conservationist Emeritus Director of the Institute of Ecosystems Research elected member of the American Philosophical Society and recipient of the 2001 National Medal of Science Subject Section Editors and authors include the very best research workers in the field

Plankton of Inland Waters Gene E. Likens,2010-05-20 A derivative of the Encyclopedia of Inland Waters Plankton of Inland Waters covers protists bacteria fungi algae and zooplankton as well as the functional and system interactions of planktonic and attached forms in aquatic ecosystems Because the articles are drawn from an encyclopedia the articles are easily accessible to interested members of the public such as conservationists and environmental decision makers Includes an up to date summary of global aquatic ecosystems and issues Covers current environmental problems and management solutions Features full color figures and tables to support the text and aid in understanding

Microbiology of the Everglades Ecosystem James A. Entry, Andrew D. Gottlieb, Krish Jayachandran, Andrew Ogram,2015-03-26 The first synthesis of current research regarding Everglades

microbial community structure and function this book provides an understanding of the physical and chemical factors affecting the structure of microbial communities including nutrient effects sea level rise and other potential stressors The book integrates traditional research on alg

Handbook of Aquatic Microbiology Pramod Kumar Pandey, Sumanta Kumar Mallik, Rameshori Yumnam, 2024-09-26

Short Blurb This handbook covers the different aspects of the aquatic environment microbiology and microbial applications It highlights the role of microorganisms as pollution indicators and as bio control agents The book covers the impact of pollution on microorganisms biofilms cyanobacterial blooms and the metagenomics approach to isolate microbes

Standard Blurb This comprehensive handbook covers the different aspects of the aquatic environment microbiology and microbial applications The world's aquatic environment is facing a serious threat due to inappropriate planning implementation and management This book compiles effective strategies for managing the aquatic environment It highlights the role of microorganisms as pollution indicators in bioremediation and as bio control agents The book also covers the impact of pollution on microorganisms biofilms cyanobacterial blooms and the metagenomics approach to isolate microbes This book is essential for students and researchers of microbiology environmental sciences and biotechnology

Seasonal Blurb This comprehensive handbook covers the different aspects of the aquatic environment microbiology and microbial applications The world's aquatic environment is facing a serious threat due to inappropriate planning implementation and management This book compiles effective strategies for managing the aquatic environment It highlights the role of microorganisms as pollution indicators in bioremediation and as bio control agents The book also covers the impact of pollution on microorganisms biofilms cyanobacterial blooms and the metagenomics approach to isolate microbes This book is essential for students and researchers of Microbiology Environmental Sciences and Biotechnology

1 Includes key themes like environmental DNA application metagenomes extremophiles microbial population genetics and statistical aspects of aquatic microbiology

2 Discusses the beneficial microbes of the aquatic environment

3 Covers applications of microbes in bioremediation as pollution indicators and as algicidal agents

4 Reviews freshwater biogeochemical cycles and sediment microbiology

5 Explores microbial communities of biofloc and microbiomes in aquaponics

Advances in Fisheries Biotechnology Pramod Kumar Pandey, Janmejy Parhi, 2022-02-10

The book covers various biotechnological research efforts and their applications in fisheries and aquaculture especially in the area of fish breeding health management nutrition and culture Application of the recent biotechnological tools like Transcriptomics Transgenesis Nanotechnology Metabolomics RNAi and CRISPRi Technologies in the field of fisheries research are included in the book Topics like conservation genetics for management of fishery resources are also covered in the book It aims at addressing the growing need of the biotechnology in advancing the cause of aquaculture with a view to provide food and nutritional security to the world This book will be of immense use to teachers researchers academicians development officials and policymakers involved in R D of fisheries and aquaculture sectors Also the book serves as an additional reading material

for undergraduate and graduate students of fisheries marine sciences ecology aquaculture and environmental sciences The research in aquaculture biotechnology is likely to have significant impact on aquaculture and fisheries by way of supporting nutritional food security to the growing population

Hydrogeochemistry of Aquatic Ecosystems Sugghosh

Madhav,Virendra Bahadur Singh,Manoj Kumar,Sandeep Singh,2022-12-12 Hydrogeochemistry of Aquatic Ecosystems

Discover the geological foundation of global water supply focusing on resource conservation and restoration

Hydrogeochemistry explores the connections between the geology of a region and the chemical characteristics and quality of its water sources including such factors as erosion evaporation and increasingly man made activities With the emergence of climate change as a major factor reshaping water quality and availability the need to understand interactions between hydrochemistry and geology has never been greater Hydrogeochemistry of Aquatic Ecosystems meets this need by offering foundational knowledge about the hydrochemistry of different types of aquatic systems the nature of their interactions with various pollutants and geological processes and the possibilities and dangers of human intervention With a particular focus on aqueous resource conservation and restoration this is a vital timely guide to a potentially life saving subject

Hydrogeochemistry of Aquatic Ecosystems readers will also find Detailed treatment of water sediment interactions arsenic and fluoride enrichment sand mining and many other subjects Coverage throughout of solute acquisition processes the carbon cycle and nutrient geochemistry Case studies from Asia and Africa demonstrating both natural and anthropogenic hydrogeochemical interactions Hydrogeochemistry of Aquatic Ecosystems is indispensable for professionals and researchers in environmental science and environmental engineering as well as scholars and advanced graduate students working on aquatic ecosystems or effects of climate change

Microbial Biofilms Bakrudeen Abdul,2020-11-05 This book provides a

broad range of applications and recent advances in the search for biofilm materials in nature It also explains the future implications for biofilms in the areas of advanced molecular genetics pharmaceuticals pharmacology and toxicology This book is comprised of 20 chapters from leading experts in the field and it examines immunology and microbiological studies derived from biofilms as well as explores environmental agricultural and chemical impacts on biofilms It is divided into five subdivisions biofilms and its complications biofilm infections in human body detection of biofilm forming pathogens antibiofilm chemotherapy and biofilms production tools in aquaculture This book may be used as a text or reference for everyone interested in microbial biofilms and their current applications It is also highly recommended for environmental microbiologists medical microbiologists bioremediation experts and microbiologists working in biocorrosion biofouling biodegradation water microbiology quorum sensing and many other related areas Scientists in academia research laboratories and industry will also find it of interest This book includes chapter homework problems and case studies Powerpoints are also available for adopting instructors Discusses and clarifies the resource of isolation and chemical properties from biofilms Discusses the latest pharmaceutical pharmacological and medicinal approaches toward the

treatment of chronic and uncured diseases such as Alzheimer's osteoporotic sexual dysfunction sleep sickness allergy treatment asthma hair loss AIDS hypertension antiaging etc Examines immunology and microbiological studies derived from biofilms Explores environmental agricultural and chemical impacts on biofilms Dr Bakrudeen Ali Ahmed Abdul is an Associate Professor the Head of the Department of Biochemistry and Dean of the School of Life Sciences Centre for Research and Development CRD PRIST Deemed University Vallam Thanjavur Tamil Nadu India His research areas include the application of plant biochemistry bioactive compound production biotechnological methods development of pharmaceutical products and pharmacological studies

Microbial Ecotoxicology Stéphane Pesce, Fabrice Martin-Laurent, Ed Topp, Ghiglione Jean-Francois, 2020-07-17 Emerging and Priority Pollutants in Rivers Helena Guasch, Antoni Ginebreda, Anita Geiszinger, 2012-02-21 The enduring changes in the aquatic environment and the increasing influx of contaminants call for novel conceptual and methodological approaches to relating chemical pollution and ecological alterations in ecosystems This volume highlights the latest advances concerning the sampling analyses occurrence bioavailability and effects of emerging and priority pollutants in European rivers the current status of the River Management Plans in Europe and the applicability of the newly developed techniques for water monitoring purposes The topics are discussed in the context of the EU Water Framework Directive evaluating their shortcomings and providing a basis for doing away with them Linking scientific research and river management practices this book is an invaluable source of information for environmental chemists aquatic scientists ecologists and water managers *Aquaculture Production Systems* James H. Tidwell, 2012-06-26 Aquaculture is an increasingly diverse industry with an ever growing number of species cultured and production systems available to professionals A basic understanding of production systems is vital to the successful practice of aquaculture Published with the World Aquaculture Society *Aquaculture Production Systems* captures the huge diversity of production systems used in the production of shellfish and finfish in one concise volume that allows the reader to better understand how aquaculture depends upon and interacts with its environment The systems examined range from low input methods to super intensive systems Divided into five sections that each focus on a distinct family of systems *Aquaculture Production Systems* serves as an excellent text to those just being introduced to aquaculture as well as being a valuable reference to well established professionals seeking information on production methods *Handbook of Ecological Indicators for Assessment of Ecosystem Health* Sven Jørgensen, Liu Xu, Robert Costanza, 2016-04-19 Continuing in the tradition of its bestselling predecessor the *Handbook of Ecological Indicators for Assessment of Ecosystem Health* Second Edition brings together world class editors and contributors who have been at the forefront of ecosystem health assessment research for decades to provide a sound approach to environmental management and sust **Wetlands and Natural Resource Management** Jos T.A. Verhoeven, Boudewijn Beltman, Roland Bobbink, Dennis F. Whigham, 2006-11-22 The two volumes on Wetlands as a Natural Resource in the book series *Ecological Studies* Volumes 190 191 are based on the highlights of the 7 INTECOL

International Wetland Conference in Utrecht 25-30 July 2004 This conference brought together about 900 participants from 61 countries who discussed a very broad range of science, policy and management oriented issues related to wetland ecology and hydrology, wetland conservation and creation, the impact of global change and wetlands as a resource in terms of food, flood protection and water quality enhancement. The participants were from different sectors of society i.e. science and technology, scientists, 45% PhD students, 20% natural resource management, 20% and policy, 15%. There were 38 symposia with invited speakers centered around the nine conference themes. We have given the organizers of these symposia the opportunity to produce one chapter for these books with the integrated content of their symposium. This has resulted in 25 chapters of which 13 are included in Volume 190 under the heading Wetlands and Natural Resource Management and 12 in Volume 191 under the heading Wetlands Functioning, Biodiversity Conservation and Restoration. With these books we had the aim to summarize the most important recent scientific results in wetland science, their applications in wetland and water resource management and their implications for the development of global, national and regional policies in the perspective of the ever progressing deterioration of natural wetlands and the major impacts that future climate change will have.

Tilapia Culture Abdel-Fattah M. El-Sayed, 2019-10-16. Tilapia Culture Second Edition covers the vital issues of farmed tilapia in the world including their biology, environmental requirements, semi-intensive culture, intensive culture systems, nutrition and feeding, reproduction, seed production and larval rearing, stress and disease, harvesting, economics, trade, marketing, the role of tilapia culture in rural development and poverty eradication and technological innovations in and the environmental impacts of tilapia culture. In addition, the book highlights and presents the experiences of leading countries in tilapia culture, thus making it ideal for tilapia farmers and researchers who seek the most relevant research and information. The new second edition not only brings the most updated information within each chapter but also delivers new content on tilapia transfers, introductions and their impacts, the use of probiotics and other additives in tilapia culture, tilapia trade including marketing and sustainability approaches and practices such as management practices, ecosystem approaches to tilapia culture and value chain analyses of tilapia farming. Presents the biology of tilapia including taxonomy, body shapes, geographical distribution, introductions and transfers, gut morphology and feeding habits. Covers semi-intensive tilapia culture in earthen ponds, tanks, raceways, cages, recirculating systems and aquaponics. Provides the latest information on brood stock management, production of monosex tilapia, seed production and larval rearing under different culture systems. Highlights the most common infectious and non-infectious diseases affecting farmed tilapia with a full description of disease symptoms and treatment measures. Provides an in-depth exploration of tilapia economics, trade and marketing. Plant Growth and Stress Physiology Dharmendra K. Gupta, José Manuel Palma, 2021-11-01. This book aims to emphasize on basic concepts of plant growth, acclimation and their adaptation to environment in changing conditions. The book will provide an updated perspective on the physical/mechanical stress including biotic and abiotic stress and induced responses in higher plants. This volume will

also include a view of the stress recognition by plants and the cell signaling events triggered as a consequence and will also address an appraisal of the plant oxidative stress metabolism under those circumstances The book will explore how soil minerals and microbes are affecting plant growth including elicitors and novel compounds which stimulate plant growth and the defence mechanisms issued by plants This volume will also cover an overview on the enzymes which may regulate plant growth as well as the evidences of the involvement of phytohormones and other signalling molecules in plant growth

Principles of Sustainable Aquaculture Stuart W. Bunting, 2013-01-25 Aquaculture is the farming of aquatic organisms principally fish molluscs crustaceans and marine algae It has seen phenomenal worldwide growth in the past fifty years and many people view it as the best solution for the provision of high quality protein to feed the world s growing population particularly with the rapid decline in wild marine fish populations Aquaculture now contributes approximately one third of the world s fish production and has increased by about eight per cent annually over the last thirty years while wild capture fishery production has remained static Focused on developing more sustainable aquaculture practices this book provides an ideal advanced level textbook It is based on extensive evidence and knowledge of best practices with guidance on appropriate adaptation and uptake in a variety of environmental geographic socio economic and political settings The author concentrates on low impact aquaculture systems and approaches which have minimal adverse effects on the environment He also emphasizes socially responsible and equitable aquaculture development to enhance the natural resource base and livelihoods Drawing on a range of case studies from around the world the objective is to show where progress in terms of developing ecologically sound and socially responsible forms of aquaculture has been made A tool box of approaches to support widespread adoption and appropriate adaptation of regenerating aquaculture strategies is provided ensuring the book will have practical relevance for both students and professionals

Tilapia in Intensive Co-culture Peter W. Perschbacher, Robert R. Stickney, 2017-02-13 Intensive tilapia co culture is the commercial production of various species of tilapia in conjunction with one or more other marketable species Tilapia are attractive as a co cultured fish because of their potential to improve water quality especially in penaeid shrimp ponds by consuming plankton and detritus and by altering pathogenic bacterial populations while increasing marketable production Following introductory chapters covering ecological aspects of co culture tilapia feeding habits historical use and new models Tilapia in Intensive Co Culture is divided into co culture in freshwater and marine environments Co culture core information is presented on Vibrio control high rate aquaculture processes aquaponics tilapia nutrient profile and tilapia niche economics and marketing in the U S and with carp catfish freshwater and marine shrimp in the Americas the Middle East and Asia Tilapia in Intensive Co Culture is the latest book in the prestigious World Aquaculture Society WAS Series published for WAS by Wiley Blackwell It will be of great use and interest to researchers producers investors and policy makers considering tilapia co culture in terms of environmental and economic sustainability

Environmental Biotechnology C. S. K. Mishra, 2007

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