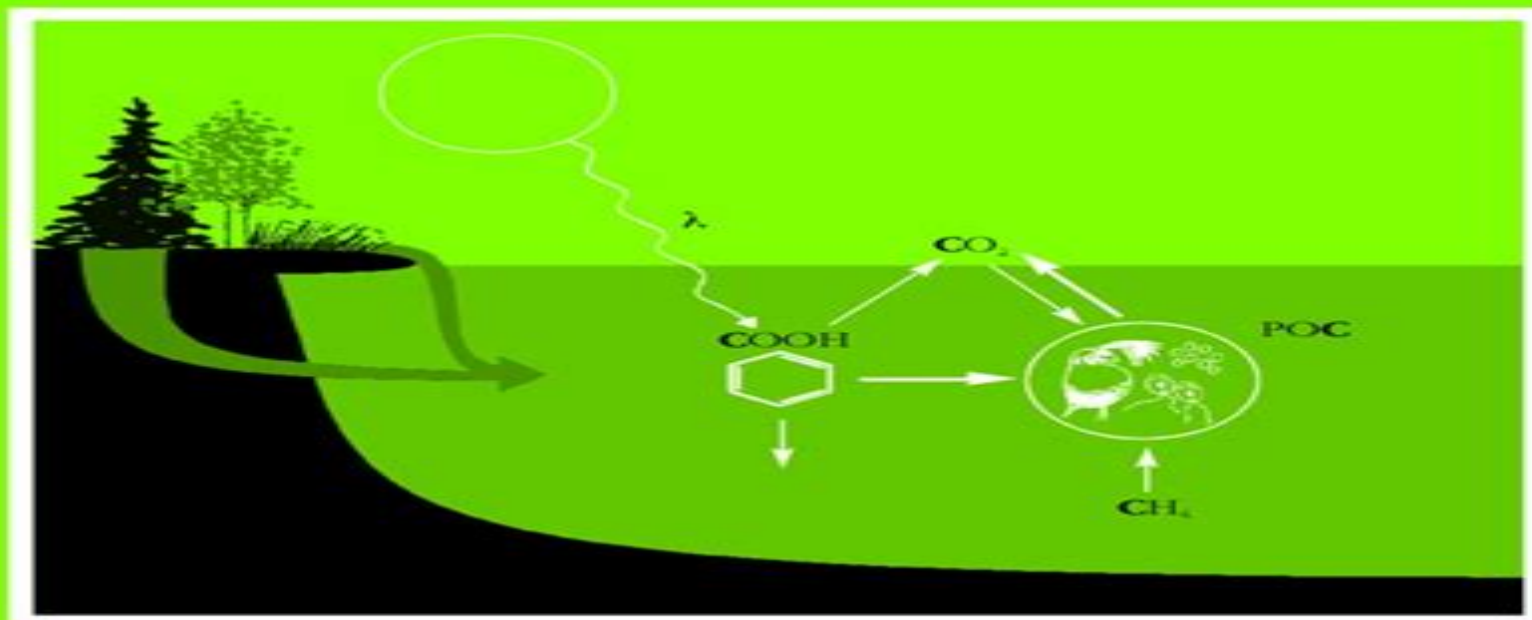


Ecological Studies 133

D. O. Hessen
L. J. Tranvik (Eds.)

Aquatic Humic Substances

Ecology and Biogeochemistry



Springer

Aquatic Humic Substances Ecology And Biogeochemistry

**Khan M.G. Mostofa, Takahito
Yoshioka, Abdul Mottaleb, Davide Vione**

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Aquatic Humic Substances Dag O. Hessen,1998-07-16 Humic substances occur in all kinds of aquatic systems but are particularly important in northern coniferous areas They strongly modify the aquatic ecosystems and also constitute a major problem in the drinking water supply This volume covers all aspects of aquatic humic substances from their origin and chemical properties their effects on light and nutrient regimes and biogeochemical cycling to their role regarding organisms productivity and food web organization from bacteria to fish Special emphasis is paid to carbon cycling and food web organization in humic lakes but aspects of marine carbon cycling related to humus are treated as well

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Humic substances occur in all kinds of aquatic systems but are particularly important in northern coniferous areas They strongly modify the aquatic ecosystems and also constitute a major problem in the drinking water supply This volume covers all aspects of aquatic humic substances from their origin and chemical properties their effects on light and nutrient regimes and biogeochemical cycling to their role regarding organisms productivity and food web organization from bacteria to fish Special emphasis is paid to carbon cycling and food web organization in humic lakes but aspects of marine carbon cycling related to humus are treated as well

Ecology of Humic Substances in Freshwaters Christian Steinberg,2013-11-11 Humic Substances color all waters more or less brown Their concentrations exceed all carbon of living organisms by at least one order of magnitude Opposite to former paradigms they participate in almost any metabolic pathway They protect against UV irradiation enable indirect photolysis and thus purify hazardous chemicals they provide inorganic and organic nutrients may form cryptic genes with DNA and dampen metabolic fluctuations More recently they can increase adverse effects of hazardous chemicals and they can directly interfere with organisms The book tries to relate effects to structural features

Biogeochemistry of Marine Dissolved Organic Matter Dennis A. Hansell,Craig A. Carlson,2014-10-02 Marine dissolved organic matter DOM is a complex mixture of molecules found throughout the world s oceans It plays a key role in the export distribution and sequestration of carbon in the oceanic water column posited to be a source of atmospheric climate regulation Biogeochemistry of Marine Dissolved Organic Matter Second Edition focuses on the chemical constituents of DOM and its biogeochemical biological and ecological significance in the global ocean and provides a single unique source for the references information and informed judgments of the community of marine biogeochemists Presented by some of the world s leading scientists this revised edition reports on the major advances in this area and includes new chapters covering the role of DOM in ancient ocean carbon cycles the long term stability of marine DOM the biophysical dynamics of DOM fluvial DOM qualities and fate and the Mediterranean Sea Biogeochemistry of Marine Dissolved Organic Matter Second Edition is an extremely useful resource that helps people interested in the largest pool of active carbon on the planet DOC get a firm grounding on the general paradigms and many of the relevant references on this topic Features up to date knowledge of

DOM including five new chapters The only published work to synthesize recent research on dissolved organic carbon in the Mediterranean Sea Includes chapters that address inputs from freshwater terrestrial DOM Marine Chemistry P.J. Wangersky, 2000-03-27 The carbon dioxide absorption and gas exchange at the sea surface marine aerosols and their photochemistry the oceanic carbon cycle as well as biomarkers in marine ecosystems and related topics are of primary importance for understanding our global ecosystem The topics addressed in this volume are all stemming from areas which have developed only in the last ten years of research or which have gone into decidedly new directions in that time In most cases the recent research has been driven by advances in instrumentation or by large scale international cooperations Thus this volume is also aiming at interdisciplinary and international cooperations in the future **The Lakes Handbook** Patrick O'Sullivan, C. S. Reynolds, 2008-04-15 Continuing concern about water supply and quality ecosystem sustainability and restoration demands that the modern approach to the management of lakes and reservoirs should be based on a sound understanding of the application of the scientific and ecological principles that underlie freshwater processes The Lakes Handbook provides an up to date overview of the application of ecologically sound approaches methods and tools using experience gained around the world for an understanding of lakes and their management Volume one of the Handbook addresses the physical and biological aspects of lakes pertinent to lake management emphasising those aspects particularly relevant to large still bodies of water Volume two then considers lake management with particular emphasis on sustainability restoration and rehabilitation This handbook will be invaluable to ecologists environmental scientists physical geographers and hydrologists involved in limnological research as well as advanced undergraduate and graduate students looking for authoritative reviews of the key areas of limnological study Brings together basic science and management issues International coverage and international authors Reviews management issues at a level suitable for the non expert Cation Binding by Humic Substances Edward Tipping, 2002-05-30 Humic substances are highly abundant organic compounds formed in soils and sediments by the decay of dead plants microbes and animals This book focuses on the important binding properties of these compounds which regulate the chemical reactivity and bioavailability of hydrogen and metal ions in the natural environment Topics covered include the physico chemical properties of humic matter and interactions of protons and metal cations with weak acids and macromolecules Experimental laboratory methods are also discussed together with mathematical modelling Finally the author looks at how the results of this research can be used to interpret environmental phenomena in soils waters and sediments This comprehensive account of cation binding by humic matter is a valuable resource for advanced undergraduate and graduate students environmental scientists ecologists and geochemists

Treatise on Geochemistry, 2013-10-19 This extensively updated new edition of the widely acclaimed Treatise on Geochemistry has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology

organic geochemistry and analytical geochemistry In addition the original Volume 1 on Meteorites Comets and Planets was expanded into two separate volumes dealing with meteorites and planets respectively These additions increased the number of volumes in the Treatise from 9 to 15 with the index appendices volume remaining as the last volume Volume 16 Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions As a result 27% were republished without major changes 66% were revised and 126 new chapters were added In a many faceted field such as Geochemistry explaining and understanding how one sub field relates to another is key Instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter Six new volumes added and 66% updated from 1st edition The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition The esteemed Board of Volume Editors and Editors in Chief worked cohesively to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 volumes including index volume *Aquatic Ecosystems: Interactivity of Dissolved Organic Matter* Stuart Findlay, Robert L. Sinsabaugh, 2003 Overviews of the source supply and variability of DOM surveys of the processes that mediate inputs to microbial food webs and syntheses consolidating research findings provide a comprehensive review of what is known of DOM in freshwater This book will be important to anyone interested in understanding the fundamental factors associated with DOM that control aquatic ecosystems BOOK JACKET

Environmental Chemistry and Toxicology of Mercury Guangliang Liu, Yong Cai, Nelson O'Driscoll, 2011-11-07 This book provides the fundamentals recent developments and future research needs for critical mercury transformation and transport processes as well as the experimental methods that have been employed in recent studies The coverage discusses the environmental behavior and toxicological effects of mercury on organisms including humans and provides case studies at the end of each chapter Bringing together information normally spread across several books this text is unique in covering the entire mercury cycle and providing a baseline for what is known and what uncertainties remain in respect to mercury cycling *Aquatic Organic Matter Fluorescence* Paula G. Coble, Jamie Lead, Andy Baker, 2014-07-14 A core text on principles laboratory field methodologies and data interpretation for fluorescence applications in aquatic science for advanced students and researchers **Bioelectrochemical Systems** Korneel Rabaey, Lars Angenent, Uwe Schroder, Jurg Keller, 2009-12-01 In the context of wastewater treatment Bioelectrochemical Systems BESs have gained considerable interest in the past few years and several BES processes are on the brink of application to this area This book written by a large number of world experts in the different sub topics describes the different aspects and processes relevant to their development Bioelectrochemical Systems BESs use micro organisms to catalyze an oxidation and or reduction reaction at an anodic and cathodic electrode respectively Briefly at an anode oxidation of organic and inorganic electron donors can occur Prime

examples of such electron donors are waste organics and sulfides At the cathode an electron acceptor such as oxygen or nitrate can be reduced The anode and the cathode are connected through an electrical circuit If electrical power is harvested from this circuit the system is called a Microbial Fuel Cell if electrical power is invested the system is called a Microbial Electrolysis Cell The overall framework of bio energy and bio fuels is discussed A number of chapters discuss the basics microbiology microbial ecology electrochemistry technology and materials development The book continues by highlighting the plurality of processes based on BES technology already in existence going from wastewater based reactors to sediment based bio batteries The integration of BESs into existing water or process lines is discussed Finally an outlook is provided of how BES will fit within the emerging biorefinery area

UV Effects in Aquatic Organisms and Ecosystems E Walter Helbling, Horacio Zagarese, 2007-10-31 This book offers extensive coverage of the most important aspects of UVR effects on all aquatic not just freshwater and marine ecosystems encompassing UV physics chemistry biology and ecology Comprehensive and up to date *UV Effects in Aquatic Organisms and Ecosystems* aims to bridge the gap between environmental studies of UVR effects and the broader traditional fields of ecology oceanography and limnology Adopting a synthetic approach the different sections cover the physical factors controlling UVR intensity in the atmosphere the penetration and distribution of solar radiation in natural waters the main photochemical process affecting natural and anthropogenic substances and direct and indirect effects on organisms from viruses bacteria and algae to invertebrate and vertebrate consumers Researchers and professionals in environmental chemistry photochemistry photobiology and cell and molecular biology will value this book as will those looking at ozone depletion and global change

Limnology Robert G. Wetzel, 2001-04-06 This book gives a comparative treatment of topics accross lake reservoir and rive ecosystems These analysis do indeed indicate differences among the properties of lakes land water interface regions reservoirs and rivers Importantly these analysis also indicate marked commonality in function

Photobiogeochemistry of Organic Matter Khan M.G. Mostofa, Takahito Yoshioka, Abdul Mottaleb, Davide Vione, 2012-12-15 Photoinduced processes caused by natural sunlight are key functions for sustaining all living organisms through production and transformation of organic matter OM in the biosphere Production of hydrogen peroxide H_2O_2 from OM is a primary step of photoinduced processes because H_2O_2 acts as strong reductant and oxidant It is potentially important in many aquatic reactions also in association with photosynthesis Allochthonous and autochthonous dissolved organic matter DOM can be involved into several photoinduced or biological processes DOM subsequently undergoes several physical chemical photoinduced and biological processes which can be affected by global warming This book is uniquely structured to overview some vital issues such as DOM H_2O_2 and ROOH HO Degradation of DOM CDOM FDOM Photosynthesis Chlorophyll Metal complexation and Global warming as well as their mutual interrelationships based on updated scientific results

Refractory Organic Substances in the Environment Fritz Hartmann Frimmel, Gudrun Abbt-Braun, Klaus G. Heumann, Berthold Hock, Hans-Dietrich

Lüdemann, Michael Spittler, 2008-01-08 Refractory organic substances ROS are an essential part of the biogeochemical carbon cycle. Wherever there is life on earth there will also be ROS in the form of poorly biodegradable leftovers of organisms and as a source for new life. Furthermore, it is now beyond doubt that ROS are closely related to the carbon intensity identified as one of the driving forces in the dynamics of green house gas emission such that ROS play a key role in sustainable development. Refractory Organic Substances in the Environment provides the results of six years of top priority research funded by the Deutsche Forschungsgemeinschaft DFG. This research program investigated the structure and function of ROS in different parts of the environment from a chemical, physical, biological, and soil scientific point of view. It included the first systematic study of a set of reference samples from Central Europe originating from a bog, lake, soil, seepage water, groundwater, and from the wastewaters of a brown coal processing plant and a secondary effluent. Thus, this work not only highlights the structural features obtained from the application of advanced analytical tools but also the function in anthropogenically influenced aquatic systems and soils. Of special interest to students and researchers in life sciences.

Surface and Ground Water, Weathering, and Soils J.I. Drever, 2005-11-21. Volume 5 has several objectives. The first is to present an overview of the composition of surface and ground waters on the continents and the mechanisms that control the compositions. The second is to present summaries of the tools and methodologies used in modern studies of the geochemistry of surface and ground waters. The third is to present information on the role of weathering and soil formation in geochemical cycles. Weathering affects the chemistry of the atmosphere through uptake of carbon dioxide and oxygen, and paleosols preserved in the rock record provide information on the composition of the atmosphere in the geological past. Reprinted individual volume from the acclaimed Treatise on Geochemistry 10 Volume Set. ISBN 0 08 043751 6 published in 2003.

Present an overview of the composition of surface and ground waters on the continents and the mechanisms that control the compositions. Provides summaries of the tools and methodologies used in modern studies of the geochemistry of surface and ground waters. Features information on the role of weathering and soil formation in geochemical cycles. Contains information on the composition of the atmosphere in the geological past. Reprinted individual volume from the acclaimed Treatise on Geochemistry 10 volume set. Handbook of Microplastic Pollution in the Environment Tonni Agustiono

Kurniawan, Abdelkader Anouzla, 2025-06-30. In this timely handbook, one of a series of three, leading contributors from around the world offer practical insights into the challenges and opportunities for using various technologies to tackle microplastic pollution and improve microplastic management in aquatic environments. Through this book, readers will gain a deep understanding of microplastic pollution in both freshwater and marine environments and strategies and technologies to combat and manage this. To provide readers with this knowledge, the book is divided into four sections to explain microplastics in freshwater and marine environments and the impact of biofilm on microplastic pollution. The contributors first describe the characteristics of microplastics and their identification roles in the pollution of aquatic environments and

impacts They also describe microplastics in freshwater and marine environments through the use of case studies from both developing and developed countries from North America Europe Africa and Asia An introduction is provided at the beginning of each chapter for those interested in a brief synopsis and copious references are provided for those wishing to study each chapter topic in greater detail This book furnishes readers with the knowledge to reduce microplastics and prevent their improper disposal which will prevent their intrusion and impact on biodiversity and ecosystems around the world and will also minimize economic losses caused by this emerging pollutant For a wider perspective readers are encouraged to refer to the other two titles in this series subtitled Microplastic Pollution in the Soil and Monitoring and Treatment of Microplastics and Policy Perspectives In its exploration of the relationships among the characteristics of microplastics their mobility transport pathways and treatment this handbook represents a vital practical guide for academics industry based researchers and policymakers that paves the ways for a new direction of water technology for future wastewater treatment

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

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