Biogeochemistry of Environmentally Important Trace Elements



Yong Cai and Olin C. Braids

Biogeochemistry Of Environmentally Important Trace Elements

Ashu Dastoor

Biogeochemistry Of Environmentally Important Trace Elements:

Biogeochemistry of Environmentally Important Trace Elements Yong Cai, O. C. Braids, 2003 Biogeochemistry of Environmentally Important Trace Elements discusses fate transport and transformation in soils waters and plants in biogeochemistry of environmentally important trace elements with a focus on arsenic mercury and selenium Elements in Soils Peter Hooda, 2010-04-13 Trace elements occur naturally in soils and some are essential nutrients for plant growth as well as human and animal health However at elevated levels all trace elements become potentially toxic Anthropogenic input of trace elements into the natural environment therefore poses a range of ecological and health problems As a result of their persistence and potential toxicity trace elements continue to receive widespread scientific and legislative attention Trace Elements in Soils reviews the latest research in the field providing a comprehensive overview of the chemistry analysis fate and regulation of trace elements in soils as well as remediation strategies for contaminated soil The book is divided into four sections Basic principles processes sampling and analytical aspects presents an overview including general soil chemistry soil sampling analysis fractionation and speciation Long term issues impacts and predictive modelling reviews major sources of metal inputs the impact on soil ecology trace element deficient soils and chemical speciation modelling Bioavailability risk assessment and remediation discusses bioavailability regulatory limits and cleanup technology for contaminated soils including phytoremediation and trace element immobilization Characteristics and behaviour of individual elements Written as an authoritative guide for scientists working in soil science geochemistry environmental science and analytical chemistry the book is also a valuable resource for professionals involved in land management environmental planning protection and regulation Concepts and Applications in Environmental Geochemistry Dibyendu Sarkar, Rupali Datta, Robyn Hannigan, 2011-09-14 This volume is for environmental researchers and government policy makers who are required to monitor environmental quality for their environmental investigators and remediation plans It uses concepts and applications to aid in the exchange of scientific information across all the environmental science disciplines ranging from geochemistry to hydrogeology and ecology to biotechnology Focusing on issues such as metals organics and nutrient contamination of water and soils and interactions between soil water plants chemicals the book synthesizes the latest findings in this rapidly developing multi disciplinary field Cutting edge environmental analytical methods are also presented making this a must have for professionals tasked with monitoring environmental quality These concepts and applications help in decision making and problem solving in a single resource Integrative approach promotes the exchange of scientific information among different disciplines New concepts and case studies make the text unique among existing resources Tremendous practical value in environmental quality and remediation with an emphasis on human health and ecological risk assessment <u>Trace Metals in Aquatic Systems</u> Robert P. Mason, 2013-02-20 This book provides a detailed examination of the concentration form and cycling of trace metals and

metalloids through the aguatic biosphere and has sections dealing with the atmosphere the ocean lakes and rivers It discusses exchanges at the water interface air water and sediment water and the major drivers of the cycling concentration and form of trace metals in aquatic systems. The initial chapters focus on the fundamental principles and modelling approaches needed to understand metal concentration speciation and fate in the aquatic environment while the later chapters focus on specific environments with case studies and research highlights Specific examples deal with metals that are of particular scientific interest such as mercury iron arsenic and zinc and the book deals with both pollutant and required nutrient metals and metalloids The underlying chemical principles controlling toxicity and bioavailability of these elements to microorganisms and to the aquatic food chain are also discussed Readership Graduate students studying environmental chemistry and related topics as well as scientists and managers interested in the cycling of trace substances in aqueous systems Additional resources for this book can be found at www wiley com go mason tracemetals *Mercury* in the Environment Michael S. Bank, 2012-05-31 Mercury pollution and contamination are widespread well documented and continue to pose a public health concern in both developed and developing countries In response to a growing need for understanding the cycling of this ubiguitous pollutant the science of mercury has grown rapidly to include the fields of biogeochemistry economics sociology public health decision sciences physics global change and mathematics Only recently have scientists begun to establish a holistic approach to studying mercury pollution that integrates chemistry biology and human health sciences Mercury in the Environment follows the process of mercury cycling through the atmosphere through terrestrial and aquatic food webs and through human populations to develop a comprehensive perspective on this important environmental problem This timely reference also provides recommendations on mercury remediation risk communication education and monitoring Environmental chemistry of mercury: Sources, pathways, transformations and impact Ashu Trace Elements in Terrestrial Environments Domy C. Adriano, 2013-03-19 Knowledge is not to be Dastoor, 2024-01-29 sought Jor the pleasures of the mind or Jor contention or Jor superiority to others or Jor profit or Jame or power or any of these inJerior things but Jor the benefit and use oJ life Sir Francis Bacon Based on citations in the literature it is evident the first edition entitled Trace Elements in the Terrestrial Environment 1986 met its primary objective which was to provide students and professionals with a comprehen sive book in many important aspects of trace elements in the environment Indeed the extent of its use has exceeded my expectations As a result of its usefulness and encouragement by colleagues in the field I was compelled to write this edition following a similar format but including new chapters on biogeochemistry bioavailability environmental pollution and regulation ecological and human health effects and risk and risk management and expanding the coverage to include freshwater systems and groundwater where appropriate In addition to plants which was the main biota of emphasis in the earlier edition fish and wildlife and invertebrates both terrestrial and aquatic are discussed as necessary The ecological and human health effects of major environmental contaminants such as As Cd Cr Pb and Hg are

also highlighted along with relevant information on potential risks to the ecology and human health Environmental Impacts of Treated Wood Timothy G. Townsend, Helena Solo-Gabriele, 2006-06-02 Responding to a heightened awareness of the possible adverse effect of treated wood this book presents multidisciplinary research results and fundamental information on regulations wood treatment alternatives and documentation of environmental releases It examines the impact of treated wood on water soil and organisms Several chapters discuss ways to measure exposure and review various approaches to risk assessment and management Case studies address human health effects of exposure The book also presents state of the art disposal technologies new preservative compounds and recent developments related to phase outs of certain treated wood Organometallics in Environment and Toxicology Astrid Sigel, Helmut Sigel, Roland K.O. Sigel, 2015-07-24 Volume products 7 devoted to the vital and rapidly expanding research area around metal carbon bonds see also MILS 6 focuses on the environment With more than 2500 references 35 tables and nearly 50 illustrations many of these in color it is an essential resource for scientists working in the wide range from organometallic chemistry inorganic biochemistry environmental toxicology all the way through to physiology and medicine In 14 stimulating chapters written by 29 internationally recognized experts Organometallics in Environment and Toxicology highlights in an authoritative and timely manner environmental cycles of elements involving organometal loid compounds as well as the analytical determination of such species This book examines methane formation involving the nickel coenzyme F430 as well as the organometal loid compounds formed by tin lead arsenic antimony bismuth selenium tellurium and mercury In addition it deals with the environmental bioindication biomonitoring and bioremediation of organometal loid s and it terminates with methylated metal loid species occurring in humans by evaluating assumed and proven health effects caused by these compounds **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 *Biogeochemistry* of Anthropogenic Particles Denise M. Mitrano, Antonia Praetorius, Gaetane Lespes, Vera I. Slaveykova, 2021-05-18 Trace Elements in the Environment M.N.V. Prasad, Kenneth S. Sajwan, Ravi Naidu, 2005-10-14 New analytical techniques have enhanced current understanding of the behavior of trace and ultratrace elements in the biogeochemical cycling chemical speciation bioavailability bioaccumulation and as applied to the phytoremediation of contaminated soils Addressing worldwide regulatory scientific and environmental issues Trace Elements in th Ehrlich's Geomicrobiology Dianne K. Newman, Andreas Kappler, 2015-10-15 Advances in geomicrobiology have progressed at an accelerated pace in recent years

Ehrlich's Geomicrobiology Sixth Edition surveys various aspects of the field including the microbial role in elemental cycling and in the formation and degradation of minerals and fossil fuels Unlike the fifth edition the sixth includes many expert contributors Advances in Marine Environmental Protection: Challenges, Solutions and Perspectives Mehran Idris Khan, Yen-Chiang Chang, Wen-Hong Liu, 2025-04-29 Environments have no boundaries and no borders Managing oceanic environments particularly the threats and risks of pollution should also consider the shared responsibility of all coastal states Emerging issues for oceanic pollution governance include global changes like rising temperature ocean acidification but also disturbances of ecosystem functioning by plastic and pollution by other emerging contaminants for example noise pollution and deep sea mining These call for efficient and sustainable prevention and restoration strategies such as such as efficient urban and industrial sewage treatment plants efficiently administered transnational marine protected areas and among others sustainable aquaculture extensive small scale fisheries Environmental protection warrants the development of interrelationships between marine sciences relevant industries and ocean governance developing internationally accepted rules and regulations for sustainable ocean management This Research Topic will explore possible new domains of ocean governance and the marine environment from the interdisciplinary perspectives of the rule of law including the international agreement on equal conventions the Convention on Facilitation of International Maritime Traffic the Convention on the International Regulation for Preventing Collisions at Sea and International Convention for the Prevention of Pollution from Ships MARPOL Encyclopedia of Renewable Energy, Sustainability and the Environment, 2024-08-09 Encyclopedia of Renewable Energy Sustainability and the Environment Four Volume Set comprehensively covers all renewable energy resources including wind solar hydro biomass geothermal energy and nuclear power to name a few In addition to covering the breadth of renewable energy resources at a fundamental level this encyclopedia delves into the utilization and ideal applications of each resource and assesses them from environmental economic and policy standpoints This book will serve as an ideal introduction to any renewable energy source for students while also allowing them to learn about a topic in more depth and explore related topics all in a single resource Instructors researchers and industry professionals will also benefit from this comprehensive reference Covers all renewable energy technologies in one comprehensive resource Details renewable energies processes from production to utilization in a single encyclopedia Organizes topics into concise consistently formatted chapters perfect for readers who are new to the field Assesses economic challenges faced to implement each type of renewable energy Addresses the challenges of replacing fossil fuels with renewables and covers the Reviews of Environmental Contamination and Toxicology 194 David M. environmental impacts of each renewable energy Whitacre, 2007-11-24 Reviews of Environmental Contamination and Toxicology attempts to provide concise critical reviews of timely advances philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics in any segment of the environment as well as toxicological implications Biological Chemistry of Arsenic, Antimony and Bismuth

Hongzhe Sun, 2010-12-10 Arsenic antimony and bismuth three related elements of group 15 are all found in trace quantities in nature and have interesting biological properties and uses While arsenic is most well known as a poison and indeed the contamination of groundwater by arsenic is becoming a major health problem in Asia it also has uses for the treatment of blood cancer and has long been used in traditional chinese medicine Antimony and bismuth compounds are used in the clinic for the treatment of parasitic and bacterial infections Biological Chemistry of Arsenic Antimony and Bismuth is an essential overview of the biological chemistry of these three elements with contributions from an international panel of experts Topics covered include chemistry of As Sb and Bi biological chemistry of arsenic biological chemistry of Sb and Bi arsenic and antimony speciation in environmental and biological samples arsenic in traditional chinese medicine arsenic in aquifers biomethylation of As Sb and Bi uptake of metalloids by cells bismuth complexes of porphyrins and their potential in medical applications Helicobacter pylori and bismuth metabolism of arsenic trioxide in blood of the acute promyelocytic leukemia patients anticancer properties of As Sb and Bi radio Bi in cancer therapy genotoxicity of As Sb and Bi metallomics as a new technique for As Sb and Bi metalloproteomics for As Sb and Bi Biological Chemistry of Arsenic Antimony and Bismuth conveys the essential aspects of the bioinorganic chemistry of these three elements making this book a valuable complement to more general bioinorganic chemistry texts and more specialized topical reviews It will find a place on the bookshelves of practitioners researchers and students working in bioinorganic chemistry and medicinal chemistry Biogeochemistry V.N. Bashkin, 2007-05-08 Modern Biogeochemistry is aimed to generalize modern ideas of biogeochemical developments during the last decades It is designed to support a general course in biogeochemistry and as such is likely to have a broad market among the many universities and colleges that are adding such courses to their curricula This book aims to supplement the existing textbooks by providing modern understanding of biogeochemistry from evolutionary biogeochemistry to practical applications of biogeochemical ideas such as human biogeochemistry biogeochemical standards and biogeochemical technologies To a certain extent this textbook is a summary of both scientific results of various authors and classes in biogeochemistry that have been given to students by authors during the last 5 to 10 years at different universities throughout the world such as Cornell Moscow Seoul and Bangkok Biogeochemistry is becoming an increasingly popular subject for graduate and postgraduate education Courses in ecology geography biology chemistry environmental science public health and environmental engineering all tend to have a biogeochemical component in their syllabuses to a greater or lesser extent Methylation Anica Dricu, 2012-11-28 Alterations in the normal DNA methylation processes are known to have major consequences for embryonic development and are associated with congenital defects autoimmunity aging and malignant transformation The main purpose of this book is to provide information about the importance of methylation mechanisms in human health and disease The book covers the basic mechanism of DNA and protein methylation aiming at the advanced undergraduate and graduate biomedical students and researchers working in the epigenetic area The textbook chapters provide background as well as advanced information in the methylation area On the other hand it provide readers with both classical and relevant recent discoveries that have been made in the field pointing out pathways where questions remain **Persistent Pollution - Past, Present and Future** Markus Quante,Ralf Ebinghaus,Götz Flöser,2011-05-26 This book evolved from the 5th School of Environmental Research entitled Persistent Pollution Past Present and Future which has set a focus on Persistent Organic Pollutants POPs heavy metals and aerosols reconstruction of past changes based on the scientific analysis of natural archives such as ice cores and peat deposits evaluation of the present environmental state by the integration of measurements and modelling and the establishment of cause effect patterns assessment of possible environmental future scenarios including emission and climate change perspectives

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