

*metal ions in  
biological systems*

volume 43

*biogeochemical cycles of elements*

edited by

Astrid Sigel

Helmut Sigel

and Roland K. O. Sigel



# Metal Ions In Biological Systems Volume 43 Biogeochemical Cycles Of Elements

**Helmut Sigel, Roland Sigel**



## **Metal Ions In Biological Systems Volume 43 Biogeochemical Cycles Of Elements:**

**Metal Ions in Biological Systems, Volume 43 - Biogeochemical Cycles of Elements** Helmut Sigel, Roland Sigel, 2005-02-28 Metal Ions in Biological Systems is devoted to increasing our understanding of the relationship between the chemistry of metals and life processes The volumes reflect the interdisciplinary nature of bioinorganic chemistry and coordinate the efforts of researchers in the fields of biochemistry inorganic chemistry coordination chemis Metal Ions in Biological Systems, Volume 43 - Biogeochemical Cycles of Elements Astrid Sigel, Helmut Sigel, Roland K. O. Sigel, 2005-02-28 Metal Ions in Biological Systems is devoted to increasing our understanding of the relationship between the chemistry of metals and life processes The volumes reflect the interdisciplinary nature of bioinorganic chemistry and coordinate the efforts of researchers in the fields of biochemistry inorganic chemistry coordination chemis *Metal Ions In Biological Systems, Volume 44* Helmut Sigel, Roland Sigel, 2005-03-01 Volume 44 devoted solely to the vital research areas concerning the biogeochemistry of metals and their transport in the environment and availability to living systems offers 9 timely and authoritative chapters on these fascinating topics by 19 internationally recognized experts *Interplay between Metal Ions and Nucleic Acids* Astrid Sigel, Helmut Sigel, Roland K.O. Sigel, 2012-01-02 Interplay between Metal Ions and Nucleic Acids provides in an authoritative and timely manner in 12 stimulating chapters written by 24 internationally recognized experts from 8 nations and supported by nearly 1500 references about 20 tables and 125 illustrations many in color a most up to date view on metal ion nucleic acid interactions the characterization of which is covered in solution and in the solid state The volume concentrates on modern developments encompassing topics in the wide range from G quadruplexes via DNAzymes catalysis at the DNA scaffold and metal mediated base pairs to peptide nucleic acids PNAs being thus of relevance e g for chemistry and nanotechnology but also for molecular biology and genetic diagnostics Interrelations between Essential Metal Ions and Human Diseases Astrid Sigel, Helmut Sigel, Roland K.O. Sigel, 2014-01-27 MILS 13 provides an up to date review on the relationships between essential metals and human diseases covering 13 metals and 3 metalloids The bulk metals sodium potassium magnesium and calcium plus the trace elements manganese iron cobalt copper zinc molybdenum and selenium all of which are essential for life Also covered are chromium vanadium nickel silicon and arsenic which have been proposed as being essential for humans in the 2nd half of the last century However if at all they are needed only in ultra trace amounts and because of their prevalence in the environment it has been difficult to prove whether or not they are required In any case all these elements are toxic in higher concentrations and therefore transport and cellular concentrations of at least the essential ones are tightly controlled hence their homeostasis and role for life including deficiency or overload and their links to illnesses including cancer and neurological disorders are thoroughly discussed Indeed it is an old wisdom that metals are indispensable for life Therefore Volume 13 provides in an authoritative and timely manner in 16 stimulating chapters written by 29 internationally recognized experts from 7 nations and supported by more than 2750 references and

over 20 tables and 80 illustrations many in color a most up to date view on the vibrant research area of the Interrelations between Essential Metal Ions and Human Diseases *The Metal-Driven Biogeochemistry of Gaseous Compounds in the Environment* Peter M.H. Kroneck, Martha E. Sosa Torres, 2014-11-22 MILS 14 provides a most up to date view of the exciting biogeochemistry of gases in our environment as driven mostly by microorganisms These employ a machinery of sophisticated metalloenzymes where especially transition metals such as Fe Ni Cu Mo W play a fundamental role that is in the activation transformation and syntheses of gases like dihydrogen methane carbon monoxide acetylene and those of the biological nitrogen and sulfur cycles The Metal Driven Biogeochemistry of Gaseous Compounds in the Environment is a vibrant research area based mainly on structural and microbial biology inorganic biological chemistry and environmental biochemistry All this is covered in an authoritative manner in 11 stimulating chapters written by 26 internationally recognized experts and supported by nearly 1200 references informative tables and about 100 illustrations two thirds in color MILS 14 also provides excellent information for teaching Peter M H Kroneck is a bioinorganic chemist who is exploring the role of transition metals in biology with a focus on functional and structural aspects of microbial iron copper and molybdenum enzymes and their impact on the biogeochemical cycles of nitrogen and sulfur Martha E Sosa Torres is an inorganic chemist with special interests in magnetic properties of newly synthesized transition metal complexes and their reactivity towards molecular oxygen applying kinetic electrochemical and spectroscopic techniques **Cadmium: From Toxicity to Essentiality** Astrid Sigel, Helmut Sigel, Roland KO Sigel, 2013-02-26 Volume 11 provides in an authoritative and timely manner in 16 stimulating chapters written by 40 internationally recognized experts from 11 nations and supported by more than 2600 references 35 tables and over 100 illustrations many in color a most up to date view on the role of cadmium for life presently a vibrant research area MILS 11 covers the bioinorganic chemistry of Cd II its biogeochemistry anthropogenic release into the environment and speciation in the atmosphere waters soils and sediments The analytical tools for Cd determination its imaging in cells and the use of  $^{113}\text{Cd}$  NMR to probe Zn II and Ca II proteins are summarized as are Cd II interactions with nucleotides nucleic acids amino acids and proteins including metallothioneins The phytoremediation by Cd II accumulating plants etc the toxicology of Cd II its damage to mammalian organs and its role as a carcinogen for humans are highlighted *The Archean Earth* Martin Homann, Wladyslaw Altermann, Timothy W. Lyons, Richard E. Ernst, Christoph Heubeck, Eva Stueeken, Alex Webb, Dominic Papineau, Rajat Mazumder, Paul RD Mason, 2025-12-19 The Archean Earth Tempos and Events Second Edition is a process based reference book that focuses on the most important events in early Earth bringing together experts across Earth Sciences to give a comprehensive overview of the main events of the Archean Eon as well as of the rates at which important geological and geobiological processes occurred in the same time interval Over the last two decades significant progress has been made in our understanding of the processes and events on the early Earth corresponding to advances in the analytical technologies and the continuing efforts of many colleagues that

pursue their passion of unravelling the Archean rock record The book addresses the origin of the Earth succeeding impact events and the evolution of the early Earth covering topics such as Archean tectonics volcanism generation of continental crust and the ongoing debate about the onset of plate tectonics the evolution and models for Earth's hydrosphere and atmosphere the Archean atmosphere and chemical sedimentation and sedimentation through Archean time among others Each topic is well illustrated and includes a closing commentary at the end of each chapter leading up to the final chapter which blends the major geological events and rates at which important processes occurred into a synthesis postulating a number of event clusters in the Archean when significant changes occurred in many natural systems and geological environments Provides a comprehensive introduction and overview on early Earth highlighting the Archean Eon in the context of the larger time scales Presents detailed descriptions of the main processes events and rates that occurred throughout the Archean Offers an assessment of the first habitable environments the preserved morphological and geochemical traces of early life and the impact it had on Earth's biogeochemical cycles

**Metal Ions in Biological Systems** Helmut Sigel, Astrid Sigel, Roland K. O. Sigel, 2005

**The Alkali Metal Ions: Their Role for Life** Astrid Sigel, Helmut Sigel, Roland K. O. Sigel, 2016-02-09 MILS 16 provides an up to date review of the impact of alkali metal ions on life Their bioinorganic chemistry and analytical determination the solid state structures of bio ligand complexes and the properties of alkali metal ions in solution in the context of all kinds of biologically relevant ligands are covered this includes proteins enzymes and nucleic acids G quadruplexes Minerals containing sodium Na and potassium K are abundant in the Earth's crust making Na and K easily available In contrast the alkali elements lithium Li rubidium and cesium are rare and the radioactive francium occurs only in traces Since the intra and extracellular as well as the compartmental concentrations of Na and K differ significantly homeostasis and active transport of these ions are important this involves transporters carriers and pore forming ion channel proteins Systems like Na K ATPases H K ATPases or Na H antiporters are thoroughly discussed The role of K in photosynthesis and the role of Na in charging the battery of life are pointed out Also the relationships between alkali metal ions and diseases e g Parkinson or traumatic brain injury are covered and the relevance of Li salts in medicine pharmacology and mechanism is reviewed This and more is treated in an authoritative and timely manner in the 16 stimulating chapters of Volume 16 The Alkali Metal Ions Their Role for Life which are written by 44 internationally recognized experts from 12 nations The impact of this vibrant research area is manifested in nearly 3000 references over 30 tables and more than 150 illustrations two thirds in color MILS 16 also provides excellent information for teaching Astrid Sigel Helmut Sigel and Roland K O Sigel have long standing interests in Biological Inorganic Chemistry Their research focuses on metal ion interactions with nucleotides and nucleic acids and on related topics They edited previously 44 volumes in the series Metal Ions in Biological Systems

**Environmental Microbiology** Eugene L. Madsen, 2008-04-21 Eugene L. Madsen presents a state of the art treatment of microbial diversity and cultured versus non cultured microbial life The text is

filled with inquiry driven facts principles and perspectives derived from genomics earth science and biotechnology **Metal Ions in Biological Systems** Helmut Sigel,1983-03-25 Metal Ions in Biological Systems is devoted to increasing our understanding of the relationship between the chemistry of metals and life processes The volumes reflect the interdisciplinary nature of bioinorganic chemistry and coordinate the efforts of researchers in the fields of biochemistry inorganic chemistry coordination chemistry environmental chemistry biophysics pharmacy and medicine Volume 43 focuses on the vibrant research area concerning the cycling of elements metals and non metals in biology and geology in 10 chapters this book offers an authoritative and timely account on this fascinating subject **American Book Publishing Record** ,2003 *Metal Ions in Biological Systems, Volume 43 - Biogeochemical Cycles of Elements* Helmut Sigel,Roland Sigel,2005 Metal Ions in Biological Systems is devoted to increasing our understanding of the relationship between the chemistry of metals and life processes The volumes reflect the interdisciplinary nature of bioinorganic chemistry and coordinate the efforts of researchers in the fields of biochemistry inorganic chemistry coordination chemistry environmental chemistry biophysics pharmacy and medicine Volume 43 focuses on the vibrant research area concerning the cycling of elements metals and non metals in biology and geology in 10 chapters this book offers an authoritative and timely account on this fascinating subject **Journal of the Indian Chemical Society** Indian Chemical Society,2000 *Colloid Journal of the USSR.* ,1986 **Geochemistry International** ,1988 Vols for 1964 v 2 no 1 1965 include selected articles translated from geochemical papers from other languages but primarily from Russian German French and Japanese ACS Directory of Graduate Research 1993 American Chemical Society. Committee on Professional Training,1993 International Aerospace Abstracts ,1998 **Canadian Journal of Fisheries and Aquatic Sciences** ,1993-05

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