

Dieter Rehder

Metal Ions in Biological Systems Astrid Sigel, Helmut Sigel, 1995-02-22 Volume 31 devoted solely to the role of vanadium in life processes offers a comprehensive and timely account of this fascinating field by 37 distinguished international authorities Highlights the properties of the various oxidation states of vanadium their affinity for biogenic ligands the effects of vanadium species on enzyme activity the role of vanadium in nitrogenases and haloperoxidases and **Metal Ions in Biological Systems** Astrid Sigel, 2004-03-26 Metal ions are currently used for such applications as more diabetes anti inflammatory rheumatoid arthritis psychiatric and anti ulcer medications using compounds of vanadium copper and zinc gold lithium and bismuth respectively This text explores these applications in addition to an assessment of chelation therapy uses in environmental sciences and the human health effects of metal ion deficiency for several elements magnesium calcium zinc and iron Featuring contributions from 29 internationally recognized experts this book offers a timely authoritative look at ionic complexes in medicine Metals Ions in Biological System Astrid Sigel, Helmut Sigel, 2002-03-06 Volume 39 Molybdenum and Tungsten Their Roles in Biological Processes is devoted soley to the vital research area on molybdenum and tungsten and their role in biology It offers a comprehensive and timely account of this fascinating topic by 40 distinguished international authorities Topics include transport homeostasis regulation and binding of molybdate and tungstate to proteins crystallographic characterization coordination of complexes and biosynthesis 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

Metal Ions in Biological Systems Helmut Sigel,2003-03-27 The Metal Ions in Biological Systems series 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 Written by 36 internationally recognized experts and enriched with nearly 200 illustrations Volume 40 highlights fast moving research on lanthanides and their interrelations with biosystems and emphasizes their recent impact in biochemical and biological studies and in medicine 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 Pulmonary Immunotoxicology Mitchell D. Cohen,Judith T. Zelikoff,Richard B. Schlesinger,2012-12-06 Pulmonary Immunotoxicology is a comprehensive exploration of the effects of various inhaled materials upon the immune system of the respiratory tract It

will be useful to investigators in the field of pulmonary toxicology and immunotoxicology and to those involved in administration and regulation of matters related to inhaled materials It can also serve as a textbook for a course in pulmonary immunotoxicology at graduate or advanced undergraduate level Pulmonary Immunotoxicology comprises four sections The first provides basic background concepts essential for understanding pulmonary immunotoxicology including discussions of the normal structure and function of the respiratory system its basic immunology and the manner by which inhaled particles and gases are removed from the air and deposited upon respiratory tract surfaces The second section provides an overview of the major types of pathological consequences which can arise from immunomodulation within the respiratory tract including hypersensitivity and asthma inflammation and fibrosis as well as immunosuppression and autoimmunity The third section which comprises the largest portion of the book deals specifically with major classes of airborne agents that are known to alter the immune function of the respiratory tract These are arranged into major classes organic agents metals gases particles biologics and complex mixtures. The fourth and final section of the book explores the area of risk assessment including discussions of the basic concepts of risk assessment as they apply specifically to immunotoxicologic effects upon the lungs and the use of biomarkers as indices of potential pulmonary immunotoxic responses to inhaled materials 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 **Uses of Inorganic Chemistry in Medicine** Nicholas P Farrell,2007-10-31 Metal based drugs are a commercially important sector of the pharmaceutical business yet most bioinorganic textbooks lack the space to cover comprehensively the subject of metals in medicine Uses of Inorganic Chemistry in Medicine approaches an understanding of the topic in a didactic and systematic manner. The field of inorganic chemistry in medicine may usefully be divided into two main categories drugs which target metal ions in some form whether free or protein bound and secondly metal based drugs where the central metal ion is usually the key feature of the mechanism of action This latter category can further be subdivided into pharmacodynamic and chemotherapeutic applications as well as those of imaging The book summarises the chemical and biological studies on clinically used agents of lithium gold and platinum as well as highlighting the research on prospective new drugs including those based on vanadium and manganese The coverage allows a clear distinction between pharmacodynamic and therapeutic properties of metal based drugs and focuses not only on those clinical agents in current use but also on new drugs and uses This book serves to fill an important niche bridging bioinorganic and medicinal chemistry and will undoubtedly be of use to senior undergraduates and postgraduates as well as being an invaluable asset for teachers and researchers in the discipline Vanadium Compounds: Biochemical and Therapeutic Applications Ashok K. Srivastava, Jean-Louis Chiasson, 2012-12-06 The papers in this volume comprise invited reviews as well as original research papers presented at the Vanadium Symposium held July 29 31 1994 Vanadium is a trace element and its compounds have been shown to exert a wide variety of insulin like effects including the ability to lower hyperglycemia in several experimental models of diabetes mellitus Because of the possibility that vanadium compounds may be able to serve as potential therapeutic agents for the treatment of diabetes and possibly other diseases this trace element has attracted the attention of biomedical researchers from a variety of fields The Vanadium Symposium 1994 was therefore organized to facilitate exchange of ideas and increase interaction among researchers of different disciplines actively engaged in studying the biological actions of vanadium compounds The papers are written by leading vanadium researchers and are grouped into three main sections the chemistry biochemical and physiological aspects and potential therapeutic use and toxic effects of vanadium compounds A good source of information on vanadium chemistry and biology Vanadium Hitoshi Michibata, 2011-09-15 The publication of Vanadium Biochemical and Molecular Biological Approaches is particularly timely as it exactly coincides with the centennial anniversary of the discovery of vanadium by Professor Henze in the blood cells of an ascidian tunicate collected in Gulf of Naples in 1911 Vanadium atomic number 23 covers a wide range of oxidation states from 2 to 5 and has unpaired electrons Depending on these properties a wide variety of enzymes and compounds containing vanadium have been found and the biochemical behaviour of vanadium has been investigated extensively This monograph provides not only the basic properties and recent advances of vanadium chemistry but also presents recent topics on hyper accumulators of vanadium enzymatic roles of vanadium biochemical functions of vanadium and medicinal functions of

vanadium which have been discovered by Biochemical and Molecular Biological Approaches Vanadium Biochemical and Molecular Biological Approaches is aimed at pure and applied chemists biochemists pharmaceutical and medical scientists

Present Knowledge in Nutrition John W. Erdman, Jr., Ian A. Macdonald, Steven H. Zeisel, 2012-05-30 Present Knowledge in Nutrition 10th Edition provides comprehensive coverage of all aspects of human nutrition including micronutrients systems biology immunity public health international nutrition and diet and disease prevention This definitive reference captures the current state of this vital and dynamic science from an international perspective featuring nearly 140 expert authors from 14 countries around the world Now condensed to a single volume this 10th edition contains new chapters on topics such as epigenetics metabolomics and sports nutrition. The remaining chapters have been thoroughly updated to reflect recent developments Suggested reading lists are now provided for readers wishing to delve further into specific subject areas An accompanying website provides book owners with access to an image bank of tables and figures as well as any updates the authors may post to their chapters between editions Now available in both print and electronic formats the 10th edition will serve as a valuable reference for researchers health professionals and policy experts as well as educators and advanced nutrition students **Nutritional Aspects and Clinical Management of Chronic Disorders** and Diseases Felix Bronner, 2002-07-29 Premature births musculoskeletal diseases diabetes mellitus and psychiatric disorders Nutrition plays a direct or indirect role in the causes treatment and or management of many chronic disorders and diseases yet nutritional and dietary intervention is often left solely to paramedical staff This book shows why nutritional and Metal Ions in Toxicology: Effects, Interactions, Interdependencies Astrid Sigel, Helmut Sigel, Roland dietary interv K.O. Sigel, 2015-07-24 Volume 8 solely devoted to the toxicology of metals and metalloids as well as their compounds focuses on human health Not surprisingly all related research areas are rapidly developing due to the role of metals and metalloids in the environment for the work place for food and water supply etc Written by 40 internationally recognized experts the 14 stimulating chapters provide an authoritative and timely resource for scientists working in the wide range from analytical physical inorganic and environmental biochemistry all the way through to toxicology physiology and medicine Volume 8 highlights supported by nearly 1900 references in a comprehensive and timely manner the principles of risk assessment regarding the effects of metals on human health It examines how metal ions and their compounds affect the pulmonary cardiovascular gastrointestinal including liver hematological immune and neurological systems the kidney skin and eyes as well as human reproduction and development MILS 8 terminates with the role of metal ions as endocrine disrupters in genotoxicity and cancer risk The Chemistry of Evolution R.J.P Williams, J.J.R Fraústo da Silva, 2005-12-17 Conventionally evolution has always been described in terms of species The Chemistry of Evolution takes a novel not to say revolutionary approach and examines the evolution of chemicals and the use and degradation of energy coupled to the environment as the drive behind it The authors address the major changes of life from bacteria to man in a systematic and unavoidable sequence

reclassifying organisms as chemotypes Written by the authors of the bestseller The Biological Chemistry of the Elements The Inorganic Chemistry of Life the clarity and precision of The Chemistry of Evolution plainly demonstrate that life is totally interactive with the environment This exciting theory makes this work an essential addition to the academic and public library Provides a novel analysis of evolution in chemical terms Stresses Systems Biology Examines the connection between life and the environment starting with the big bang theory Reorientates the chemistry of life by emphasising the need to analyse the functions of 20 chemical elements in all organisms Sports Nutrition Ira Wolinsky, Judy A. Driskell, 2005-10-31 In competitive sports where an extra breath or a millisecond quicker neural response can spell the difference between fame and mediocrity a number of myths have persisted around the impact of what might be considered megadoses of various vitamins and trace elements We do know that a growing body of research indicates that work capacity oxygen co

Chemistry and the Environment Sven E. Harnung, Matthew S. Johnson, 2012-08-27 This textbook presents the chemistry of the environment using the full strength of physical inorganic and organic chemistry in addition to the necessary mathematics and physics It provides a broad yet thorough description of the environment and the environmental impact of human activity using scientific principles It gives an accessible account while paying attention to the fundamental basis of the science showing derivations of formulas and giving primary references and historical insight The authors make consistent use of professionally accepted nomenclature IUPAC and SI allowing transparent access to the material by students and scientists from other fields This textbook has been developed through many years of feedback from students and colleagues It includes more than 400 online student exercises that have been class tested and refined The book will be invaluable in environmental chemistry courses for advanced undergraduate and graduate students and professionals in chemistry and allied fields Health and Disease Role of Micronutrients and Trace Elements R. Nath, Ravindra Nath, 2000 Clinical Nutrition of the Essential Trace Elements and Minerals John D. Bogden, Leslie M. Klevay, 2000-07-26 The Nutrition and Health series of books have as an overriding mission to provide health professionals with texts that are considered essential because each includes 1 a synthesis of the state of the science 2 timely in depth reviews by the leading researchers in their respective fields 3 extensive up to date fully annotated reference lists 4 a detailed index 5 relevant tables and figures 6 identification of paradigm shifts and the consequences 7 virtually no overlap of information between chapters but targeted inter chapter referrals 8 suggestions of areas for future research and 9 bal anced data driven answers to patient questions which are based upon the totality of evidence rather than the findings of any single study. The series volumes are not the outcome of a symposium Rather each editor has the potential to examine a chosen area with a broad perspective both in subject matter as well as in the choice of chapter authors. The international perspective especially with regard to public health initiatives is emphasized where appropriate The editors whose trainings are both research and practice oriented have the opportunity to develop a primary objec tive for their book define the scope and focus and then invite the leading

authorities from around the world to be part of their initiative. The authors are encouraged to provide an overview of the field discuss their own research and relate the research findings to potential human health consequences *Bioinorganic* Vanadium Chemistry Dieter Rehder, 2008-04-15 Vanadium is named after Vanadis the most aristocratic of Norse goddesses who symbolises beauty and fertility essential features of vanadium chemistry It is a ubiquitous trace element with a surprising range of biological functions In Bioinorganic Vanadium Chemistry Dieter Rehder addresses the major aspects of vanadium chemistry related to living organisms and the mutual impact between biological and inorganic vanadium chemistry Topics covered include the history natural occurrence distribution and impact of vanadium inorganic aspects of the function of vanadium in biological systems interaction of aqueous vanadate and vanadyl with biogenic ligands vanadium coordination compounds the vanadium carbon bond methods of characterisation of biogenic and model vanadium systems EPR and ENDOR for oxovanadium IV 51V NMR for vanadium V XAS vanadium in ascidians and polychaeta worms the concentration of vanadium in the form of amavadin by Amanita mushrooms vanadate dependent haloperoxidases vanadium and the nitrogen cycle vanadate as energiser for bacteria and vanadophores medicinal aspectsm including the anti-diabetic potential of vanadium compounds interaction of vanadium with proteins and protein substrates vanadium and phosphate metabolising enzymes Bioinorganic Vanadium Chemistry conveys the essential aspects of vanadium bioinorganic chemistry making this book a valuable complement to more general bioinorganic chemistry texts and more specialized topical reviews for researchers and students alike

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