



Metal Dna Chemistry

Astrid Sigel, Helmut Sigel



Metal Dna Chemistry:

Metal--DNA Chemistry, 1989 Metal Complex - DNA Interactions Nick Hadjiliadis, Einar Sletten, 2009-03-30 Metal ions and metal complexes have long been recognized as critically important components of nucleic acid chemistry both in regulation of gene expression and as promising therapeutic agents. Understanding how metal complexes interact with DNA has become an active research area at the interface between chemistry, molecular biology and medicine. Metal Complex DNA Interactions provides a comprehensive overview of this increasingly diverse field presenting recent developments and the latest research with particular emphasis on metal based drugs and metal ion toxicity. The text is divided into four parts: Basic Structural and Kinetic Aspects includes chapters on sequence selective metal binding to DNA and thermodynamic models; Medical Applications focuses on anticancer platinum drugs including discussions on DNA repair in antitumor effects of platinum drugs and photodynamic therapy; DNA Recognition Nucleases and Sensor describes probes for DNA recognition, artificial restriction agents, metallo DNAs, and metal ion independent catalysis in nucleic acid enzymes; Toxicological Aspects deals with structural studies of mercury DNA interactions, chromium induced DNA damage and repair and the effect of arsenic and nickel on DNA integrity. This book will be a valuable resource for academic researchers and professionals from a range of pharmaceutical and chemical industries, particularly those involved in the development of new and less toxic anticancer metallo drugs and in the field of environmental and toxicological chemistry.

Interplay between Metal Ions and Nucleic Acids Astrid Sigel, Helmut Sigel, Roland KO 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 DNAs, 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. Modern Avenues in Metal-Nucleic Acid Chemistry Jens Müller, Bernhard Lippert, 2023-04-24 Volume 25 entitled Modern Avenues in Metal Nucleic Acid Chemistry of the series Metal Ions in Life Sciences (MILS) provides a timely overview of selected relevant developments in a field which previously had a pronounced focus on fundamental chemistry aspects such as coordination principles, structural chemistry and consequences for biological processes and disease related medicinal issues. More recently also as a consequence of the advent of supramolecular chemistry, advancements in nanochemistry and new bio-analytical methods, novel aspects of this field have emerged. MILS 25 gives a state of the art account on the present state of research in this field addressing among others porous materials, non covalent interactions, stimuli responsive bioconjugates, DNA templated metal arrays and nanoclusters, genotyping, guanine quadruplexes and

riboswitches It consists of 15 comprehensive chapters with over 1600 citations 160 figures 90 of them in color with key contributions from 40 international experts from Europe Asia and America It is an essential resource for scientists from numerous disciplines ranging from materials science to biochemistry by way of classical chemistry and physics It offers an update on nucleic acid metal complex bioconjugates and their applications It provides an insight into coordination polymers involving nucleic acid components It covers a wide range of nucleic acids from DNA duplexes triplexes and quadruplexes to RNA

Metal Ions in Biological Systems Astrid Sigel, Helmut Sigel, 1996-02-29 Volume 33 focuses on the vibrant research area of probing nucleic acids the carriers of the genetic code by metal ion complexes of small molecules providing an authoritative timely account of this fascinating topic by over 50 distinguished experts

Photochemistry and Photophysics of Metal Complexes D.M. Roundhill, 2013-06-29 Focusing on practical applications the author provides a balanced introduction to the many possible technological uses of metal complexes Coverage includes the transition metals lanthanide and actinide complexes metal porphyrins and many other complexes This volume meets the needs of students and scientists in inorganic chemistry chemical physics and solid state physics

Nucleic Acid-metal Ion Interactions Nicholas V. Hud, 2009 Provides a perspective on nucleic acid metal ion interactions with an emphasis on experimental biophysical studies which will prove indispensable to biophysicists and molecular biologists

Metal-Ligand Interactions N. Russo, Dennis R. Salahub, Malgorzata Witko, *Nucleic Acid Photophysics and Photochemistry* Spiridoula Matsika, Andrew H. Marcus, 2024-11-16 This volume focuses on recent advancements in our current understanding of nucleic acid photochemistry and its relationship to biologically relevant phenomena

Understanding the photophysical properties of nucleic acids is an area of longstanding and active research Over the years the field has greatly benefitted from steady advances in spectroscopic techniques and computational methods to study molecular excited states which have facilitated detailed studies of the behavior of nucleic acids and their components after they absorb light Experiments performed on ultrafast time scales femtoseconds picoseconds have permitted the accurate determination of excited state lifetimes while computational studies have provided detailed microscopic information about the mechanisms involved As our understanding of the fundamental photophysics of nucleic acids has advanced current studies now focus on systems of higher complexity and introduce novel optical techniques to investigate the interactions between nucleic acids and proteins Spectroscopic studies of nucleic acids particularly nucleic acid constructs labeled with optical probes can yield richly detailed information important to molecular biology biochemistry and biophysics This book is a must read for anyone interested in the photophysical properties of nucleic acids and their role in biologically relevant phenomena

Metal Ions in Biological Systems Astrid Sigel, Helmut Sigel, 1996-02-05 Volume 32 covers metal ion bonding to phosphate sugar and nucleobase residues the ambidentate as well as the stacking properties of nucleotides kinetic aspects as well as properties of nucleobase and nucleotide analogs and the oligonucleotides and nucleic acids It examines electron transfer reactions over a large

number of base repairs in DNA the role of metal ions in ribozymes ternary metal nucleic acid base protein complexes metal responsive gene regulation and the structure activity relationships of anticancer drugs and their action on DNA including cisplatin and the role of proteins *Metallofoldamers* Galia Maayan,Markus Albrecht,2013-01-18 Metallofoldamers are oligomers that fold into three dimensional structures in a controlled manner upon coordination with metal ions Molecules in this class have shown an impressive ability to form single handed helical structures and other three dimensional architectures Several metallofoldamers have been applied as sensors due to their selective folding when binding to a specific metal ion while others show promise for applications as responsive materials on the basis of their ability to fold and unfold upon changes in the oxidation state of the coordinated metal ion and as novel catalysts Metallofoldamers From Helicates to Biomimetic Architectures describes the variety of interactions between oligomers and metal species with a focus on non natural synthetic molecules Topics covered include the major classes of foldamers and their folding driving force metalloproteins and metalloenzymes helicates self assembly structure and applications abiotic metallo DNA metallo PNA and iDNA metalloptides interactions of biomimetic oligomers with metal ions applications of metallofoldamers

Introduction to Coordination Chemistry Paul V. Bernhardt,Geoffrey A. Lawrance,2024-12-20 INTRODUCTION TO COORDINATION CHEMISTRY An accessible introduction to one of the primary fields of study in Inorganic Chemistry revised to incorporate contemporary topics and applications Written in a highly readable descriptive and accessible style Introduction to Coordination Chemistry examines and explains the interaction between metals and molecules that bind as ligands and the consequences of this assembly process The book describes the chemical and physical properties and behavior of these complex assemblies and their applications The contents of this book tell a story taking the reader from fundamentals including metal ions ligands metal ligand bonding and structure to key concepts such as stability synthesis and mechanisms properties and characterization Subsequent chapters address applications involving metals in biology medicine and industrial chemistry Written by two highly qualified academics this newly revised Second Edition of Introduction to Coordination Chemistry has been thoroughly updated to include full color images throughout as well as now including Information on instrument based experimental methods to reflect the increasing use of sophisticated commercially available instruments in laboratory teaching An expansion of the chapter Metals in Biology showing key developments in the vast field of metalloproteins and metalloenzymes An updated description of polymetallic compounds and new discussions of metal containing nanomolecules pertinent to advancements in nanotechnology An expanded discussion of organometallic compounds and catalysts and updating of Concept Keys to summarize key topics and further reading at the end of each chapter Introduction to Coordination Chemistry is an ideal textbook resource for undergraduate inorganic chemistry students in their second or third year or at the intermediate level who have completed a general introductory chemistry course and are moving to a first specialist course in coordination chemistry INORGANIC CHEMISTRY ADVANCED

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Polyelectrolytes Masanori Hara,1992-11-12 Aims to provide in depth coverage of recent advances in all important areas of polyelectrolyte research and applications Topics covered in this text include scaling theory dynamic light scattering neutron scattering biopolymers and ionomers

Genetic Response to Metals Sarkar,1995-04-19 Based on the First International Symposium on Metals and Genetics held recently at the Hospital for Sick Children in Toronto Ontario Canada The only book of its kind to focus on the effects of metals on DNA Provides up to date information on new developments in the field and their wide ranging implications Discusses the molecular mechanisms of metal induced mutagenicity and carcinogenicity

Bioinorganic Chemistry: Inorganic Elements in the Chemistry of Life Wolfgang Kaim,Brigitte Schwederski,1994-11-29 Introducing advanced students to the field this text examines the function and occurrence of the elements in living organisms It then discusses the applications of biominerals inorganic electrolytes and inorganic compounds in chemotherapy

Nuclear Magnetic Resonance of Paramagnetic Macromolecules G.N. la Mar,2013-11-11 Since A Kowalsky s first report of the spectrum of cytochrome c in 1965 interest in the detection assignment and interpretation of paramagnetic molecules has surged especially in the last decade Two classes of systems have played a key role in the development of the field heme proteins and iron sulfur proteins These two systems are unique in many respects one of which is that they contain well defined chromophores each of which can be studied in detail outside the protein matrix They are the most successfully studied macromolecules and the first eight and last six of the seventeen contributions to this book deal with heme and or iron sulfur proteins The middle three chapters survey the progress on and significant promise of more difficult systems which do not possess a chromophore but which have nevertheless yielded remarkable insights into their structure

Metallopharmaceuticals I Michael J. Clarke,Peter J. Sadler,1999-05-21 Each volume provides the reader whether engaged in chemistry biochemistry biology or molecular medicine with a comprehensive summary and critical overview of a topic of great current interest written by leading international experts

Biophysical Chemistry Metal Ions DNA Prasanta Kumar Banerjee,1979-01-01 *Journal of Research of the National Institute of Standards and Technology* ,1991 Reports NIST research and development in the physical and engineering sciences in which the Institute is active These include physics chemistry engineering mathematics and computer sciences Emphasis on measurement methodology and the basic technology underlying standardization

Concepts and Models in Bioinorganic Chemistry Heinz-Bernhard Kraatz,Nils Metzler-Nolte,2006-07-21 Destined to set the standard this book meets the need for a didactic textbook focusing on the role of model systems in bioinorganic chemistry The first part features concepts in bioinorganic chemistry such as electron transfer medicinal inorganic chemistry bioorganometallics and metal DNA

complexes while the second part presents inorganic model chemistry on metallo enzymes organized by metal ion. Experts in the pertinent fields provide a didactically well organized background on relevant biological systems as well as on their structural, functional and spectroscopic properties. All chapters are similarly structured, each one beginning with a timeline featuring the most important historical facts on the subject, followed by a table of the most significant enzymes. The authors also summarize key developments and open questions within the respective model systems. This book is aimed at senior undergraduate and graduate students in chemistry, biochemistry, life science and related fields.

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