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[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 *Nickel and Its Surprising Impact in Nature* Astrid Sigel, Helmut Sigel, Roland K. O. Sigel, 2007-03-13 Helmut Sigel Astrid Sigel and Roland K O Sigel in close cooperation with John Wiley Sons launch a new Series Metal Ions in Life Sciences The philosophy of the Series is based on the one successfully applied to a previous series published by another publisher but the move from biological systems to life sciences will open the aims and scope and allow for the publication of books touching on the interface between chemistry biology pharmacology biochemistry and medicine Volume 2 focuses on the vibrant research area concerning nickel as well as its complexes and their role in Nature With more than 2 800 references and over 130 illustrations it is an essential resource for scientists working in the wide range from inorganic biochemistry all the way through to medicine In 17 stimulating chapters written by 47 internationally recognized experts *Nickel and Its Surprising Impact in Nature* highlights critically the biogeochemistry of nickel its role in the environment in plants and cyanobacteria as well as for the gastric pathogen *Helicobacter pylori* for gene expression and carcinogenesis In addition it covers the complex forming properties of nickel with amino acids peptides phosphates nucleotides and nucleic acids The volume also provides sophisticated insights in the recent progress made in understanding the role of nickel in enzymes such as ureases hydrogenases superoxide dismutases acireductone dioxygenases acetyl coenzyme A synthases carbon monoxide dehydrogenases methyl coenzyme M reductases and it reveals the chaperones of nickel metabolism *Forthcoming Books* Rose Arny, 2003-12 Wiley Encyclopedia of Chemical Biology, Volume 2 Tadhg P. Begley, 2009-02-03 The first major reference at the interface of chemistry biology and medicine Chemical biology is a rapidly developing field that uses the principles tools and language of chemistry to answer important questions in the life sciences It has enabled researchers to gather critical information about the molecular biology of the cell and is the fundamental science of drug discovery playing a key role in the development of novel agents for the prevention diagnosis and treatment of disease Now students and researchers across the range of disciplines that use chemical biology techniques have a single resource that encapsulates what is known in the field It is an excellent place to begin any chemical biology investigation Major topics addressed in the encyclopedia include Applications of chemical biology Biomolecules within the cell Chemical views of biology Chemistry of biological processes and systems Synthetic molecules as tools for chemical biology Technologies and techniques in chemical biology Some 300 articles range from pure basic research to areas that have immediate applications in fields such as drug discovery sensor technology and catalysis Novices in the field can turn to articles that introduce them to the basics whereas experienced researchers have access to articles exploring the cutting edge of the science Each article ends with a list of references to facilitate further investigation With contributions from leading researchers and pioneers in the field the Wiley Encyclopedia of Chemical Biology builds on Wiley s unparalleled reputation for helping students and researchers understand the crucial role of chemistry and chemical techniques in the life sciences

Pseudomonas Juan-Luis Ramos, 2004-06-17 *Pseudomonas* comprises three volumes covering the biology of pseudomonads in a wide context including the niches they inhabit the taxonomic relations among members of this group the molecular biology of gene expression in different niches and under different environmental conditions the analysis of virulence traits in plants animals and human pathogens as well as the determinants that make some strains useful for biotechnological applications and promotion of plant growth There has been growing interest in pseudomonads and a particular urge to understand the biology underlying the complex metabolism of these ubiquitous microbes These bacteria are capable of colonizing a wide range of niches including the soil the plant rhizosphere and phyllosphere and animal tissues more recently they have attracted attention because of their capacity to form biofilms a characteristic with potentially important medical and environmental implications The three volumes cover the following topics Taxonomy Genomics Life styles Cell Architecture Virulence Regulation Macromolecules Alternative Respiratory Substrates Catabolism and Biotransformations *Pseudomonas* will be of use to all researchers working on these bacteria particularly those studying microbiology plant crops pathogenesis and chemical engineering Advanced students in biology medicine and agronomy will also find these three volumes a valuable reference during their studies

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,2004 **Smart Coatings** Vaibhav Sanjay Kathavate,Pravin Pralhad Deshpande,2022-09-02 This book focuses on fundamentals technology synthesis and characterizations and applied techniques from a practical point of view of coatings The first three chapters offer a rigorous review of the application of these coatings to corrosion protection in various aerospace and oil and gas industries and the subsequent chapters present a quick critical review of the state of the art protection techniques of these coatings to novel biomedical applications such as clinical translations and tissue engineered materials Environmental ergonomics and aesthetic aspects and future perspectives are also explained at the end Features Explores the synthesis and application techniques of novel smart coatings in various research areas Presents a concise critical and state of the art review of existing research on various types of smart coatings Ascertains the different mechanisms associated with the stimuli response of smart coatings Includes an exclusive chapter on real time applications in the biomedical field Covers self healing self cleaning pH balance early corrosion detection and triggering mechanisms This book is aimed at researchers and graduate students specifically in smart coatings and thin films and corrosion including chemical materials science engineering industrial and manufacturing engineering and nanotechnology *Handbook of Elemental Speciation* ,2004-01-09 This international collection of chapters comprehensively covers different aspects of procedures for speciation analysis at all levels starting from sample collection and storage through sample preparation approaches to render the species chromatographable principles of separation techniques used in speciation analysis to the element specific detection International renowned editors and contributors Includes coverage of electrochemical methods biosensors for metal ions radioisotope techniques and direct solid speciation techniques Provides information on quality assurance and risk assessment and speciation relevant legislation Each chapter is a stand alone reference covering a given facet of elemental speciation analysis written by an expert in a given field with the volume as a whole providing an excellent introductory text and reference handbook Multi Frequency EPR Spectroscopy of Conjugated Polymers and Their Nanocomposites Victor I. Krinichnyi,2016-10-14 Conjugated polymeric materials and their nanocomposites are widely used for the creation of alternative sources of renewable energy cell phone screens mobile gadgets video players and OLED TV as well as organic diodes transistors sensors etc with field dependent and spin assisted electronic properties Multifrequency

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