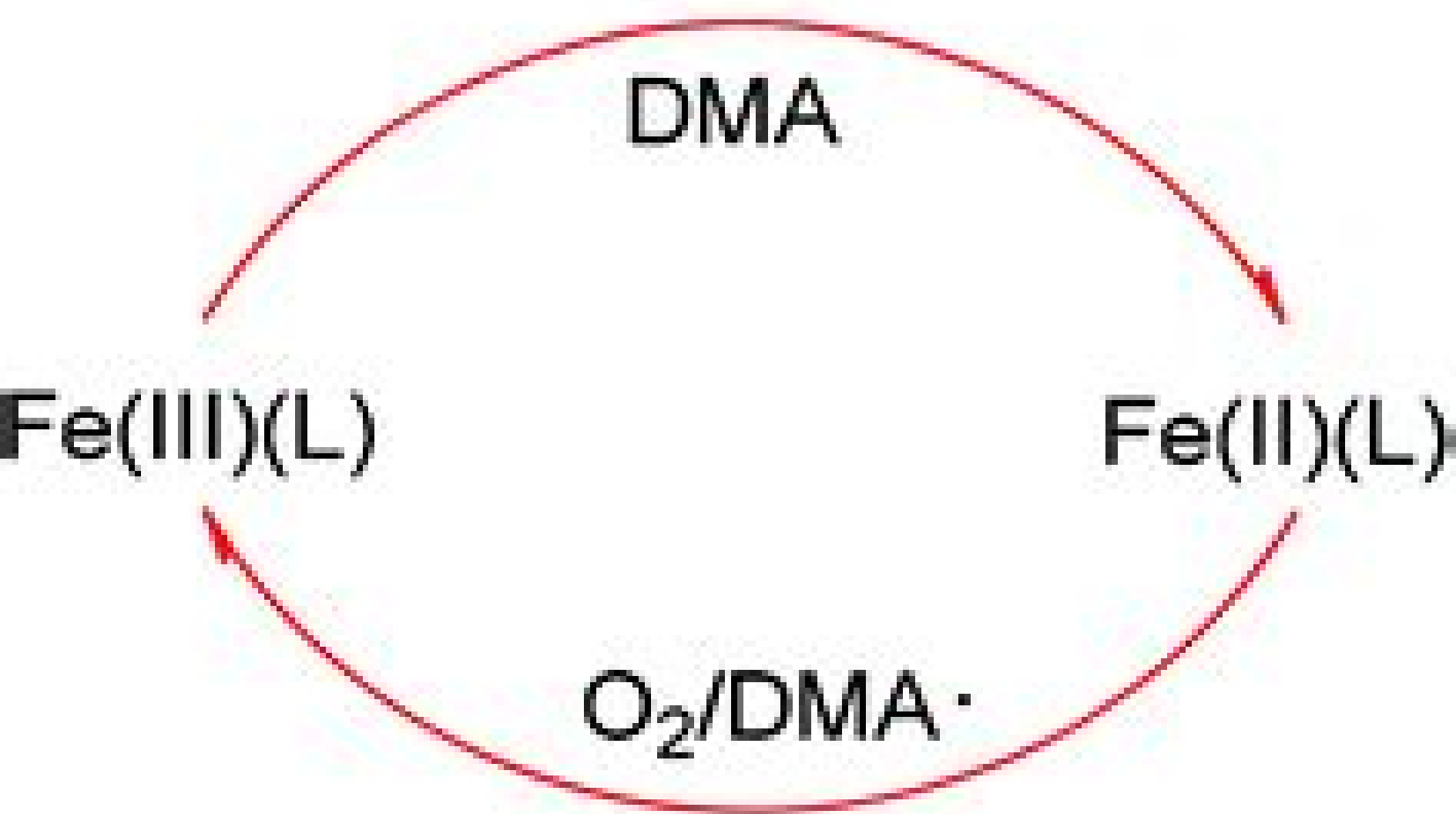


Zn^{2+} -triggered ET



lipoxygenase-like O_2 activation

Metal Ion Activation Of Dioxygen

Anatoly D. Pomogailo



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Metal Ion Activation of Dioxygen Thomas G. Spiro, 1980 **Metal Ion Activation of Dioxygen (Volume 2).** TG Spiro (Ed), 1980 *Catalytic Activation of Dioxygen by Metal Complexes* László I. Simándi, 1992-07-31 The activation of dioxygen by metal ions has both synthetic potential and biological relevance Dioxygen is the cleanest oxidant for use in emission free technologies to minimize pollution of the environment The book gives a survey of those catalyst systems based on metal complexes which have been discovered and studied in the last decade They activate molecular oxygen and effect the oxidation of various organic compounds under mild conditions Much of the recent progress is due to a search for biomimetic catalysts that would duplicate the action of metalloenzymes Mechanistic aspects are emphasized throughout the book An introductory chapter reviews the chemistry of transition metal dioxygen complexes which are usually the active intermediates in the catalytic reactions discussed Separate chapters are devoted to oxidation of saturated unsaturated and aromatic hydrocarbons phenols catechols oxo compounds phosphorus sulfur and nitrogen compounds Oxygen Complexes and Oxygen Activation by Transition Metals Arthur Martell, 2012-12-06 This monograph consists of manuscripts summary statements and poster abstracts submitted by invited speakers and poster contributors who participated in the symposium Oxygen Complexes and Oxygen Activation by Transition Metals held March 23 26 1987 at Texas A Dr Jerry R Ebner Monsanto Company Dr Craig Murchison Dow Chemical Company Dr Donald C Olsen Shell Development Company Dr Tim R Ryan Celanese Chemical Company and Dr Ron Sanderson Texaco Chemical Company The subject of this conference reflects the intense interest that has developed in academic institutions and industry on several aspects of dioxygen chemistry These include the formation of dioxygen complexes and their applications in facilitated transport and oxygen separation homogeneous and heterogeneous catalysis of oxidation and oxygenation of organic substrates by molecular oxygen The conference differs in two respects from several other symposia on dioxygen chemistry held during the past few years First there is extensive industrial participation especially with respect to oxygen activation Progress in Inorganic Chemistry, Volume 35 Stephen J. Lippard, 2009-09-17 This comprehensive series of volumes on inorganic chemistry provides inorganic chemists with a forum for critical authoritative evaluations of advances in every area of the discipline Every volume reports recent progress with a significant up to date selection of papers by internationally recognized researchers complemented by detailed discussions and complete documentation Each volume features a complete subject index and the series includes a cumulative index as well Mechanisms of Reactions of Metal Complexes in Solution Debabrata Banerjee, M K Bharty, 2022-09-21 Reaction Mechanisms of Metal Complexes in Solution provides a comprehensive overview of an often overlooked research area Despite its importance and recent reshaping of the field many inorganic chemists have lost an appreciation for the significance of stability constants and the thermodynamic aspects of complex formation Ideal for newcomers and established researchers in the field this book is a complete treatment of the area covering advanced topics

with relevance to biomedical applications extraction metallurgy food chemistry and a wealth of other industrial processes and research areas The book will be of particular interest to postgraduates with an interest in coordination chemistry catalysis supramolecular chemistry metallobiology and related aspects of biochemistry Metabolism of Trace Metals in Man Vol. II (1984) Owen M. Rennert, Chan Wai-Yee, 2017-11-22 A vast literature exists dealing with trace metals and a number of outstanding monographs deal with the biological biochemical or clinical effects of a specific trace metal or trace metals in general However newer aspects of trace metal research i e the developmental aspects and generic implications have not been systematically discussed in any existing texts The present two volumes will summarize the present status of research in these areas and serve as milestones for future development in these areas of trace metal research **Transition Metal Complexes — Structures and Spectra**, 2007-12-13 **Essential Metals in Medicine: Therapeutic Use and Toxicity of Metal Ions in the Clinic** Peggy L. Carver, 2019-01-14 Volume 19 entitled Essential Metals in Medicine Therapeutic Use and Toxicity of Metal Ions in the Clinic of the series Metal Ions in Life Sciences centers on the role of metal ions in clinical medicine Metal ions are tightly regulated in human health while essential to life they can be toxic as well Following an introductory chapter briefly discussing several important metal related drugs and diseases and a chapter about drug development the focus is first on iron its essentiality for pathogens and humans as well as its toxicity Chelation therapy is addressed in the context of thalassemia its relationship to neurodegenerative diseases and also the risks connected with iron administration are pointed out A subject of intense debate is the essentiality of chromium and vanadium For example chromium III compounds are taken as a nutritional supplement by athletes and bodybuilders in contrast chromate Cr VI is toxic and a carcinogen for humans The beneficial and toxic effects of manganese cobalt and copper on humans are discussed The need for antiparasitic agents is emphasized as well as the clinical aspects of metal containing antidotes for cyanide poisoning In addition to the essential and possibly essential ones also other metal ions play important roles in human health causing harm like the metalloid arsenic lead or cadmium or being used in diagnosis or treatment of human diseases like gadolinium gallium lithium gold silver or platinum The impact of this vibrant research area on metals in the clinic is provided in 14 stimulating chapters written by internationally recognized experts from the Americas Europe and China and is manifested by approximately 2000 references and about 90 illustrations and tables Essential Metals in Medicine Therapeutic Use and Toxicity of Metal Ions in the Clinic is an essential resource for scientists working in the wide range from pharmacology enzymology material sciences analytical organic and inorganic biochemistry all the way through to medicine not forgetting that it also provides excellent information for teaching *Principles of Bioinorganic Chemistry* Stephen J. Lippard, Jeremy Mark Berg, 1994 The use of unnatural metals which have been introduced into human biology as diagnostic probes and drugs is another active area of tremendous medical significance Vanadium Catalysis Manas Sutradhar, Armando J L Pombeiro, José Armando L da Silva, 2020-11-05 Vanadium is one of the more abundant elements in the

Earth's crust and exhibits a wide range of oxidation states in its compounds making it potentially a more sustainable and more economical choice as a catalyst than the noble metals. A wide variety of reactions have been found to be catalysed by homogeneous supported and heterogeneous vanadium complexes and the number of applications is growing fast. Bringing together the research on the catalytic uses of this element into one essential resource including theoretical perspectives on proposed mechanisms for vanadium catalysis and an overview of its relevance in biological processes, this book is a useful reference for industrial and academic chemists alike.

Oxygen Atom Transfer Reactions Robert Bakhtchadjian, 2023-01-11

This book introduces readers to the fundamentals of oxygen atom transfer reactions. It also gives mechanistic insights into the redox processes occurring through the oxygen atom transfer reactions. It also includes information about catalytic activation of oxygen through enzymes and oxo-metallic complexes. All topics are explored in separate chapters. Key features: reviews the basic mechanisms in redox processes involving oxo atom transfer reactions; presents progress in the biomimetic activation of dioxygen related to the catalytic oxidations by synthetic metal-organic complexes; covers an important class of metal-organic compounds: nickel-oxygen species generated in catalytic oxidation processes as oxygen atom transfer agents; explains the mechanistic aspects of the heterogeneous photochemical redox processes via oxo atom transfer reactions; provides references for further reading. It is a reference for both professional scientists in the fields of chemistry, biology and applied sciences and for graduate and undergraduate students interested in understanding reaction mechanisms involving oxygen.

Metalloporphyrins in Catalytic Oxidations Roger A. Sheldon, 1994-06-28

This volume provides an in-depth overview of the chemistry of metalloporphyrins as oxidation catalysts in chemical and biological systems. It discusses practical techniques for the synthesis of metalloporphyrins and introduces useful methods of immobilization to improve their synthetic utility. Detailed discussions of underlying mechanistic features are provided.

Homogeneous Catalysis with Metal Complexes Gheorghe Duca, 2012-06-15

The book about homogeneous catalysis with metal complexes deals with the description of the reductive oxidative metal complexes in a liquid phase in polar solvents mainly in water and less in nonpolar solvents. The exceptional importance of the redox processes in chemical systems, in the reactions occurring in living organisms, the environmental processes (atmosphere, water, soil) and in industrial technologies especially in food processing industries is discussed. The detailed practical aspects of the established regularities are explained for solving the specific practical tasks in various fields of industrial chemistry, biochemistry, medicine, analytical chemistry and ecological chemistry. The main scope of the book is the survey and systematization of the latest advances in homogeneous catalysis with metal complexes. It gives an overview of the research results and practical experience accumulated by the author during the last decade.

Active Oxygen in Biochemistry Valentine Angelou, 2013-03-09

The field of Oxygen Activation has attracted considerable interest recently not only because it presents challenges in those fields of basic research that aim to understand the fundamental aspects of chemical and biological reactions that involve dioxygen but also because of its wide range of practical implications.

in such diverse fields as medicine synthesis of pharmaceuticals and other organic compounds materials science and atmospheric science This is the second of two volumes that focus on the subject of oxygen activation the first slanted toward chemistry and the second toward biological chemistry We planned these volumes to be more general than many monographs of this sort not as detailed summaries of the authors own research but rather as general overviews of the field Our choice of topics was strongly influenced by our syllabus for a course entitled Oxygen Chemistry which two of us have twice taught jointly at UCLA Definition of important issues horizons and future prospects was an important goal and although totally comprehensive coverage was not possible we believe that we have chosen a representative selection of research topics current to the field We have targeted this work to a diverse audience ranging from professionals in fields from physics to medicine to beginning graduate students who are interested in rapidly acquiring the basics of this field

Cytotoxic, Mutagenic and Carcinogenic Potential of Heavy Metals Related to Human Environment N. Hadjiliadis, 2012-12-06

Environmental pollution is one of the main problems to confront humanity with the heavy metals occupying a leading role among the most pernicious pollutants The metals cause cancer and other sicknesses Their cytotoxic mutagenic and carcinogenic potentials are not fully understood and any thorough investigation demands the combined efforts of scientists drawn from many different disciplines But the effects of heavy metals are not all negative some like cis DDP and some ruthenium and tin complexes have antitumour activity The idea underlying the present work is therefore to present a multidisciplinary perspective on heavy metals in the environment affording a better understanding of their action on human organisms and health aiming to make them less polluting and more environmentally friendly

Molecular Biology and Toxicology of Metals Rudolfs K. Zalups, D. James Koropatnick, 2000-02-24 Molecular Biology and Toxicology of Metals provides a critical review and analysis of the current state of knowledge of metal ion transport and metabolism in prokaryotic and eukaryotic cellular systems It covers the latest information on specific metals and the biological molecules with which metals interact It also details mechanisms in the handling and toxicity of metals in specific organ systems and the role of metals in cell signalling and gene transcription in target cells This book is sure to prove a fertile meeting ground for the disciplines of molecular genetics and metal toxicology

Catalysis by Polymer-Immobilized Metal Complexes Anatoly D. Pomogailo, 2020-08-18 Deals with a new and promising field developed during the last two decades on the boundary between homogeneous and heterogeneous catalysis This book presents general information on catalysis for a wide range of organic reactions e g hydrogenation and oxidation reactions and polymerization transformations Special attention is paid to electro and photochemical stimulation of catalytic processes in the presence of immobilized metal complexes Other topics covered are the quantitative data on the comparison of catalyses by mobile and immobilized metal complexes main factors affecting the activity of these catalytic systems and methods of optimizing their control and specific problems of catalysis by fixed complexes e g ligand exchange and electron transfer in metal polymer systems macromolecular effects and polyfunctional

catalysis **Metalloproteins** Art E. Cho, William A. Goddard III, 2015-04-17 Numerous essential biological functions involve metalloproteins therefore understanding metalloproteins and how to manipulate them is significant in the biological and medical fields An examination of current research Metalloproteins Theory Calculations and Experiments explores the interplay between theory and experiment detailing the role The Biological Chemistry of Iron B.H. Dunford, D. Dolphin, K.N. Raymond, L. Sieker, 1982-07-31 Proceedings of the NATO Advanced Study Institute Edmonton Alberta Canada August 23 September 4 1981

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