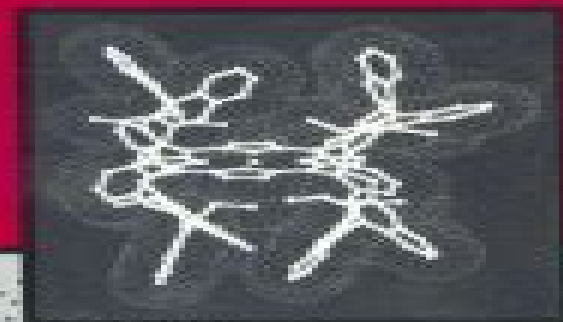


Metalloporphyrins in Catalytic Oxidations



edited by
Roger A. Sheldon



Metalloporphyrins In Catalytic Oxidations

**Ines Batinić-Haberle, Júlio S.
Rebouças, Ivan Spasojević**



Metalloporphyrins In Catalytic Oxidations:

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 Metalloporphyrins Catalyzed Oxidations F. Montanari, L. Casella, 2013-11-11 Oxidative catalysis by metalloporphyrin systems occupies a prominent role in the current research in the fields of chemical and biological catalysis Our particular interest and approach has been to collect in the same volume papers dealing with both the chemical and biological aspects of the reactivity of heme systems because of the realization that a better understanding of the complementary discipline can be extremely useful for the researchers from either field The current progress of the research on synthetic metalloporphyrin catalysts has led to the development of several systems that are able to reproduce the heme enzyme mediated oxygenation and oxidation reactions at least in terms of reaction types mechanisms and often rates These achievements have stimulated the of creating metalloporphyrin catalysts which are both ambitious project efficient and stable enough to become competitive for large scale industrial processes Although this project is still far from being realized the efforts in this direction parallel those aimed at the application of heme enzymes to chemical technologies e g for the mild selective oxidation of organics or the detoxification of pollutants Both the two approaches will be advantageous because while the enzyme systems can achieve selectivities which are probably unattainable by synthetic catalysts the latter can be active under experimental conditions that would readily inactivate the enzymes *Catalytic Oxidations with Hydrogen Peroxide as Oxidant* G. Strukul, 2013-03-14 Hydrogen peroxide is a chemical that is becoming increasingly fashionable as an oxidant both in industry and in academia and whose production is expected to increase significantly in the next few years This growth in interest is largely due to environmental considerations related to the clean nature of hydrogen peroxide as an oxidant its by product being only water To date this chemical has largely been employed as a non selective oxidant in operations like the bleaching of paper cellulose and textiles or in the formulation of detergents and only to a minimal extent in the manufacture of organic chemicals This book has been organized to cover the different aspects of the chemistry of hydrogen peroxide The various chapters into which the book is divided have been written critically by the authors with the general aim of stimulating new ideas and emphasizing those aspects that are likely to lead to new developments in organic synthesis in the coming future The Porphyrin Handbook, Volume 4 Karl Kadish, Kevin M. Smith, Roger Guilard, 2000 How I Feel books help children ages 2-6 recognize and identify their emotions and give them a vocabulary to describe what they are feeling If children can name an emotion they are on their way to understanding it And when children can talk about what they are feeling their parents will be better able to help them Features 8 x 8 24 page hardcover or softcover full color picture book Each book includes an activity card and reusable stickers Question answer

format stimulates conversation between parent and child

Metal-Oxo and Metal-Peroxo Species in Catalytic

Oxidations B. Meunier, 2003-09-04 The present volume is a description of the current knowledge on the different metal oxo and metal peroxo species which are involved in catalytic oxidations. These highly reactivity metal oxygen species are the key intermediates in heme or non heme oxygenases as well as in metal catalyzed oxidations. The accumulated knowledge on these reactive entities will facilitate a better understanding of the different intermediates involved in the catalytic cycles of enzymes like cytochromes P 450 non heme oxygenases copper oxygenases in the oxidation of water by the manganese center of Photosystem II in the chemistry of dioxiranes and also in DNA cleavage performed by activated bleomycin. The description of these metal oxo and metal peroxo species is based on physico chemical data reactivity results and also on theoretical calculations.

The Activation of Dioxygen and Homogeneous Catalytic Oxidation D.H.R. Barton, Arthur E. Martell, Donald T. Sawyer, 2012-12-06 This monograph consists of the proceedings of the Fifth International Symposium on the Activation of Dioxygen and Homogeneous Catalytic Oxidation held in College Station Texas March 14-19 1993. It contains an introductory chapter authored by Professors D H R Barton and D T Sawyer and twenty nine chapters describing presentations by the plenary lecturers and invited speakers. One of the invited speakers who could not submit a manuscript for reasons beyond his control is represented by an abstract of his lecture. Also included are abstracts of forty seven posters contributed by participants in the symposium. Readers who may wish to know more about the subjects presented in abstract form are invited to communicate directly with the authors of the abstracts. This is the fifth international symposium that has been held on this subject. The first was hosted by the CNRS May 21-29 1979 in Bendor France on the Island of Bandol. The second meeting was organized as a NATO workshop in Padova Italy June 24-27 1984. This was followed by a meeting in Tsukuba Japan July 12-16 1987. The fourth symposium was held at Balatonfüred Hungary September 10-14 1990. The sixth meeting is scheduled to take place in Delft The Netherlands late Spring 1996 the organizer and host will be Professor R A Sheldon.

Advances in Catalytic Activation of Dioxygen by Metal Complexes László I. Simándi, 2006-04-11 The subject of dioxygen activation and homogeneous catalytic oxidation by metal complexes has been in the focus of attention over the last 20 years. The widespread interest is illustrated by its recurring presence among the sessions and subject areas of important international conferences on various aspects of bioinorganic and coordination chemistry as well as catalysis. The most prominent examples are ICC, ICBIC, EUROBIC, ISHC and of course the ADHOC series of meetings focusing on the subject itself. Similarly the number of original and review papers devoted to various aspects of dioxygen activation are on the rise. This trend is due obviously to the relevance of catalytic oxidation to biological processes such as dioxygen transport and the action of oxygenase and oxidase enzymes related to metabolism. The structural and functional modeling of metalloenzymes particularly of those containing iron and copper by means of low molecular complexes of iron copper ruthenium cobalt manganese etc have provided a wealth of indirect information helping to understand how the active centers of metalloenzymes may operate. The knowledge

gained from the study of metalloenzyme models is also applicable in the design of transition metal complexes as catalysts for specific reactions This approach has come to be known as biomimetic or bioinspired catalysis and continues to be a fruitful and expanding area of research

Advances in Organometallic Chemistry and Catalysis Armando J. L. Pombeiro, 2013-10-11 A contemporary compilation of recent achievements in organometallic chemistry The prestigious International Conference on Organometallic Chemistry ICOMC was launched in 1963 providing a forum for researchers from around the world to share their findings and explore new paths to advance our knowledge and application of organometallic chemistry The 25th ICOMC held in Lisbon in 2012 gathered more than 1 200 participants from 54 countries This volume celebrates the 25th Silver Edition and the 50th Gold Year of the ICOMC Featuring contributions from invited 25th ICOMC speakers *Advances in Organometallic Chemistry and Catalysis* highlights recent achievements and new and emerging areas of research in the field Its seven sections cover Activation and Functionalization of Carbon Single Bonds and Small Molecules Organometallic Synthesis and Catalysis Organometallic Polymerization Catalysis Organometallic Polymers and Materials Organometallic Chemistry and Sustainable Energy Bioorganometallic Chemistry Organometallic Electrochemistry Chapters discuss fundamental underlying concepts offer illustrative examples and cases and explore future avenues for continued research Readers will discover basic principles and properties of organometallic compounds reaction mechanisms and detailed descriptions of current applications Collectively these chapters underscore the versatility richness and potential of modern organometallic chemistry including its interrelationships with other scientific disciplines All the contributions are extensively referenced providing a gateway to the most important original research papers and reviews in organometallic chemistry Presenting a contemporary understanding of organometallic chemistry and its many applications *Advances in Organometallic Chemistry and Catalysis* is recommended for all researchers in the field from students to advanced investigators

Catalytic Activation of Dioxygen by Metal Complexes László I. Simándi, 2012-12-06 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

Studies in Catalytic Oxidations Robert Burns Brown, 1988

Redox-Active Therapeutics Ines Batinić-Haberle, Júlio S. Rebouças, Ivan Spasojević, 2016-10-13 This essential volume comprehensively discusses redox active therapeutics focusing particularly on

their molecular design mechanistic pharmacological and medicinal aspects The first section of the book describes the basic aspects of the chemistry and biology of redox active drugs and includes a brief overview of the redox based pathways involved in cancer and the medical aspects of redox active drugs assuming little in the way of prior knowledge Subsequent sections and chapters describe more specialized aspects of central nervous system injuries neurodegenerative diseases pain radiation injury and radioprotection such as of brain lungs head and neck and erectile function and neglected diseases e g leishmaniasis It encompasses several major classes of redox active experimental therapeutics which include porphyrins salens nitrones and most notably metal containing e g Mn Fe Cu Zn Sb drugs as either single compounds or formulations with nanomaterials and quantum dots Numerous illustrations tables and figures enhance and complement the text extensive references to relevant literature are also included Redox Active Therapeutics is an invaluable addition to Springer's Oxidative Stress in Applied Basic Research and Clinical Practice series It is essential reading for researchers clinicians and graduate students interested in understanding and exploring the Redoxome the organism redox network as an emerging frontier in drug design redox biology and medicine

Catalytic Oxidation Reagents Philip L. Fuchs, 2013-07-29 The Handbook is part of the Handbook of Reagents for Organic Chemistry series aiming at collecting articles on a particular theme that individual researchers in academia or industry can use on a daily basis The Handbook starts with a section discussing the most important aspects of heteroarene functionalization The introduction is followed by the alphabetical listing of the most relevant reagents drawn from the EROS database The Editor Andr Charette from the University of Montreal has selected 120 reagent descriptions many of them updated with heteroarene specific reactions for this Handbook Following the standard format for EROS each article contains an overview of the synthesis and physical properties of the reagents or catalyst conditions for its storage and purification methods Given the importance of heteroarenes in biology and especially in medicinal chemistry a Handbook that focuses exclusively on heteroarene functionalization has been long overdue This Handbook will have a broad appeal to many individuals engaged in the area of medicinal chemistry fine chemical synthesis and industrial scale chemistry Key features Builds on the success of the previously published Handbooks of Reagents for Organic Synthesis Compares the numerous new C H functionalization reactions that have been developed in the past decade Heteroarene functionalization is widely used in the development of pharmaceuticals and other bioactive compounds Contains listings of secondary reagents for which more information is available in the online edition

Comprehensive

Supramolecular Chemistry: Supramolecular reactivity and transport : bioinorganic systems, 1996

Metalloporphyrins Aleksey Kuznetsov, 2021-10-25 Porphyrins composed of four pyrrole subunits are highly important compounds which are ubiquitous in biological systems This book reviews the factors that influence physical and chemical properties of tetrapyrrole species and explores the ways to tune geometric and electronic structures of porphyrins in order to modify their electronic optical and magnetic characteristics

N4-Macrocyclic Metal Complexes J.H. Zagal, Fethi

Bedioui, J.P. Dodelet, 2007-07-16 In response to significant developments in sensor science and technology this book offers insight into the various extended applications and developments of N4 macrocycle complexes in biomimetic electrocatalysis. Chapters are devoted to the chemistry, electronic and electrochemical properties of porphyrin based polymetallated supramolecular redox catalysts and their applications in analytical and photoelectrochemical molecular devices, the use of porphyrins, phthalocyanines and related complexes as electrocatalysts for the detection of a wide variety of environmentally polluting and biologically relevant molecules and the use of electropolymerized metalloporphyrin and metallophthalocyanine films as powerful materials for analytical tools, especially for sensing biologically relevant species. *Biomimetic Oxidations*

Catalyzed By Transition Metal Complexes Bernard Meunier, Gary Brudvig, Jennifer L. McClain, Shun-ichi Murahashi, V. L. Pecoraro, D. Riley, Anne Robert, J. A. Rodriguez, R. A. Sheldon, J. S. Valentine, C. Young, James M. Mayer, Julian Limburg, Jinbo Lee, Diane Cabelli, R. H. Crabtree, Sergiu M. Gorun, John T. Groves, Zhengbo Hu, K. U. Ingold, Kenneth D. Karlin, Naruyoshi Komiya, Marie-aude Kopf, Hans Jorg Krueger, H. Zhu, 2000-03-08 Since the classic work *Metal Catalyzed Oxidations of Organic Compounds* edited by R. A. Sheldon and J. K. Kochi 1991, no book has been devoted to advances in the field of biomimetic oxidations which was created nearly 18 years ago. This expanding research field is covered in this volume. All the different aspects of the modeling of oxidations catalyzed by metalloenzymes are dealt with. This invaluable book will be useful to postgraduates as well as researchers in academia and industry and will also benefit second year university students. **The**

Porphyrin Handbook Roger Guilard, Karl Kadish, Kevin M. Smith, 2012-12-02 The *Porphyrin Handbook* Volume 11 *Bioinorganic and Bioorganic Chemistry* presents the fundamental aspects of the synthesis, structure, chemistry and spectroscopy of phthalocyanines. This book discusses the biology and medical implications of porphyrin systems. Organized into seven chapters, this volume begins with an overview of the design, synthesis and study of the structural and functional models of heme copper terminal oxidases. This text then examines the proteins containing iron protoporphyrin IX (heme) which play key roles in photosynthesis and respiration. Other chapters consider the syntheses of chiral porphyrin derivatives and summarize the uses of such compounds in enantioselective control. This book discusses as well the reactivity and synthesis of synthetic carbene metalloporphyrins. The final chapter deals with the B12 coenzymes which is the most complex and physiologically important organometallic enzymatic reactions that directly depend on the reactivity of metal coordinated organic ligands. This book is a valuable resource for research scientists, clinicians and engineers. *Bioinorganic Chemistry*

D.P. Kessissoglou, 2012-12-06 Bioinorganic chemistry is primarily concerned with the role of metal atoms in biology and is a very active research field. However, even though such important structures of metalloenzymes are known as the MoFeCo of nitrogenase, Cu or Mn superoxide dismutase and plastocyanin, the synthetic routes to the modelling of such centers remains a matter of acute scientific interest. Other metalloenzymes such as the Mn center of the oxygen evolving complex of PSII are still the focus of in depth examination both spectroscopic and structural. Another area of concern is the interaction between

drugs and metals and metal ion antagonism Understanding the chemistry of metal ions in biological systems will bring benefits in terms of understanding such problems as biomineralization and the production of advanced materials by micro organisms The 29 contributions to Bioinorganic Chemistry An Inorganic Perspective of Life give an excellent summary of the state of the art in this field covering areas from the NMR of paramagnetic molecules to the use of lanthanide porphyrins in artificial batteries Catalytic Selective Oxidation S. Ted Oyama, American Chemical Society. Meeting, 1993 Discusses the most recent advances in the theories and concepts of selective oxidation technology Examines the synthesis characterization and performance of new catalytic materials used in the oxidation of hydrocarbons in the range of C 1 to C 4 Highlights the use of transition metal oxides in one of several redox states in industrial oxidation processes Also presents state of the art developments in engineering and applications to new processes **Enzyme Catalysis Today and the Chemistry of the 21st Century** Gertz I. Likhtenshtein, 2025-02-17 This book examines enzymatic reactions from the standpoint of physical chemistry An introductory chapter gives a brief overview of the role of enzymes in metabolism biotechnology and medicine while describing the framework for chemical mimicry of enzyme reactions Subsequent chapters of the book are devoted to a general overview of vital enzyme processes methods of enzyme kinetic reactions the theory of elementary mechanisms oriental dynamic and polar factors affecting enzyme catalysts as well as the current status and prospects of enzyme chemical modeling The book gives particular attention to chemical reactions highly important in modern research efforts such as the conversion of light energy into chemical energy with a high quantum yield photooxidation of water reduction of atmospheric nitrogen and utilization of carbon dioxide in ambient conditions The book is intended for scientists working on enzyme catalysis and the adjacent areas such as chemical modeling of biological processes homogeneous catalysis biomedical research biotechnology and bioengineering In addition it can serve as secondary instructional material for graduate and undergraduate students of chemistry medicine biochemistry biophysics biophysiology and bioengineering

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