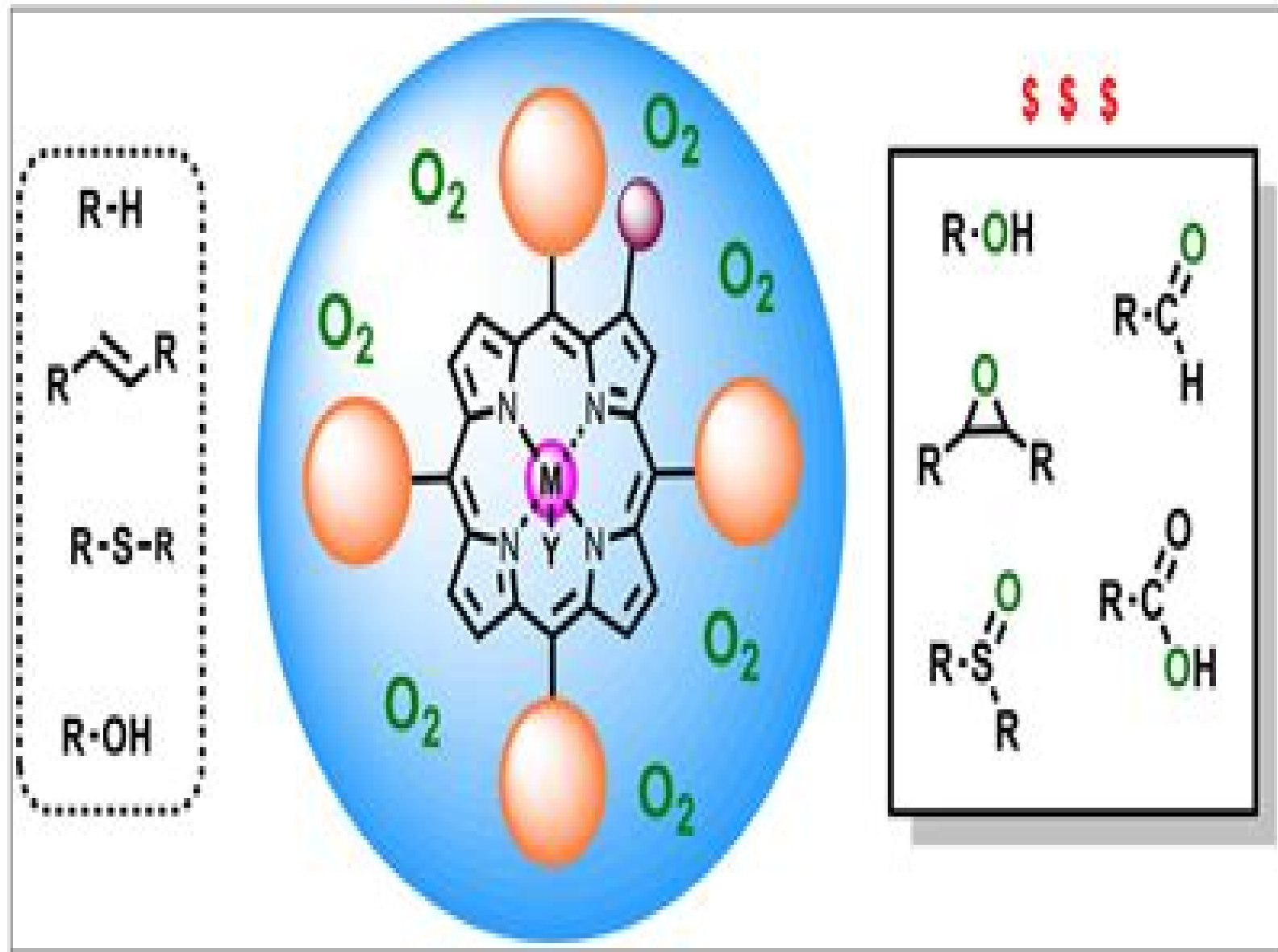


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Metalloporphyrins Catalyzed Oxidations

László I. Simándi



Metalloporphyrins Catalyzed Oxidations:

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 development 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. *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. *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. *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 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 *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 **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 *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 Biomimetics Amitava Mukherjee, 2010-03-01

Nature's evolution has led to the introduction of highly efficient biological mechanisms Imitating these mechanisms offers an enormous potential for the improvement of our day to day life Ideally by bio inspiration we can get a better view of nature's capability while studying its models and adapting it for our benefit This book takes us into the interesting world of biomimetics and describes various arenas where the technology is applied The 25 chapters covered in this book disclose recent advances and new ideas in promoting the mechanism and applications of biomimetics **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

New Developments in Selective Oxidation II V. Cortés Corberán, S. Vic Bellón, 1994-06-21 This volume contains invited papers and communications presented at the Second World Congress and Fourth European Workshop Meeting on New Developments in Selective Oxidation The purpose of the meeting was to present new topics and recent advances as well as the discussion of new aspects of fundamental and applied aspects of partial selective oxidation in heterogeneous and homogeneous catalysis The following topics were discussed New processes for fine chemicals by catalytic oxidation Recent developments in surface chemistry of oxide catalysts Novel catalytic systems and preparation methods Heterogenized homogeneous oxidation catalysts Selective oxidation and oxidative dehydrogenation of alkanes New industrial developments based on catalytic oxidation reactions Bio photo and electro catalytic oxidation Oxidation by other agents than

dioxygen Bifunctional metal on metal oxide catalysts for selective oxidation This book provides a valuable set of data on selective oxidation reactions which will be extremely useful to catalyst and related practitioners whether fundamentalists or highly applied and to process engineers who wish to evaluate current findings in this field **New Developments in Selective Oxidation** G. Centi, F. Trifiró, 1990-04-26 Approx 890 pages **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 ICCS 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 *Enantioselective Epoxidation of Unfunctionalized Olefins Catalyzed by Threitol-strapped Metalloporphyrins* Virgil James Lee, 1992 **Modern Oxidation Methods** Jan-Erling Bäckvall, 2011-08-02 While rust is an unwanted oxidation reaction there are also many other useful oxidation reactions that are extremely important and number among the most commonly used reactions in the chemical industry This completely revised updated second edition now includes additional sections on industrial oxidation and biochemical oxidation Edited by one of the world leaders in the field high quality contributions cover every important aspect from classical to green chemistry methods Recent Developments in Metal catalyzed Dihydroxylation of Alkenes Transition Metal Catalyzed Epoxidation of Alkenes Organocatalytic Oxidation Ketone Catalyzed Asymmetric Epoxidation of Alkenes and Synthetic Applications Catalytic Oxidations with Hydrogen Peroxide in Fluorinated Alcohol Solvents Modern Oxidation of Alcohols using Environmentally Benign Oxidants Aerobic Oxidations and Related Reactions Catalyzed by N-Hydroxyphthalimide Ruthenium Catalyzed Oxidation for Organic Synthesis Selective Oxidation of Amines and Sulfides Liquid Phase Oxidation Reactions Catalyzed by Polyoxometalates Oxidation of Carbonyl Compounds Manganese Catalyzed Oxidation with Hydrogen Peroxide Biooxidation with Cytochrome P450 Monooxygenases By providing an overview of this vast topic the book represents an unparalleled aid for organic catalytic and biochemists working in the field **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 Activation and Catalytic Reactions of Saturated Hydrocarbons in the Presence of Metal Complexes

A.E. Shilov, Georgiy B. Shul'pin, 2001-11-30 Chemistry is the science about breaking and forming of bonds between atoms One of the most important processes for organic chemistry is breaking bonds C H as well as C C in various compounds and primarily in hydrocarbons Among hydrocarbons saturated hydrocarbons alkanes methane ethane propane hexane etc are especially attractive as substrates for chemical transformations This is because on the one hand alkanes are the main constituents of oil and natural gas and consequently are the principal feedstocks for chemical industry On the other hand these substances are known to be the less reactive organic compounds Saturated hydrocarbons may be called the noble gases of organic chemistry and if so the first representative of their family methane may be compared with extremely inert helium As in all comparisons this parallel between noble gases and alkanes is not fully accurate Indeed the transformations of alkanes including methane have been known for a long time These reactions involve the interaction with molecular oxygen from air burning the main source of energy as well as some mutual interconversions of saturated and unsaturated hydrocarbons However all these transformations occur at elevated temperatures higher than 300 500 °C and are usually characterized by a lack of selectivity The conversion of alkanes into carbon dioxide and water during burning is an extremely valuable process but not from a chemist viewpoint **Homogeneous Oxidation Reactions** Mohammad Reza

Rahimpour, Mohammad Amin Makarem, Tayebah Roostaie, Maryam Meshksar, 2024-09-18 Homogeneous Oxidation Reactions a volume in the Advances Homogeneous in Catalysis series covers oxidation and hydrogenation reactions in detail Split into two sections the first is devoted to various homogeneous oxidation processes such as oxidation of olefins phenols and aromatic acids The second presents homogeneous hydrogenation reactions and related processes including hydrogenation of

alkenes esters and olefins Relevant reactor design industrial case studies economic analysis and environmental issues of both oxidation and hydrogenation homogeneous reactions are considered This book will be of particular interest and benefit to catalysts users manufacturers and creators Includes fundamentals reactor design and process description of oxidation homogeneous reactions Describes various oxidation homogeneous reactions Explains oxidation economic and environmental challenges Metalloporphyrin-catalyzed Olefin Epoxidation Li Zeng,2005 **Catalyst Separation, Recovery and Recycling** David J. Cole-Hamilton,Robert P. Tooze,2006-10-12 This book looks at new ways of tackling the problem of separating reaction products from homogeneous catalytic solutions The new processes involve low leaching supported catalysts soluble supports such as polymers and dendrimers and unusual solvents such as water fluorinated organics ionic liquids and supercritical fluids The advantages of the different possibilities are discussed alongside suggestions for further research that will be required for commercialisation Unlike other books in addition to the chemistry involved the book looks at the process design that would be required to bring the new approaches to fruition Comparisons are given with existing processes that have already been successfully applied and examples are given where these approaches are not suitable The book includes New processes for the separation of products from solutions containing homogeneous catalysts Catalysts on insoluble or soluble supports fixed bed catalysts continuous flow or ultrafiltration Biphasic systems water organic fluorinated organic ionic liquid organic supercritical fluids monophasic or biphasic with water organic or ionic liquid Comparisons with current processes involving atmospheric or low temperature distillation Consideration of Chemistry and Process Design Advantages and disadvantages of each process exposed Consideration of what else is need for commercialisation

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