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METAL-METAL BONDS AND CLUSTERS IN CHEMISTRY AND CATALYSIS

Metal Metal Bonds And Clusters In Chemistry And Catalysis

Didier Astruc



Metal Metal Bonds And Clusters In Chemistry And Catalysis:

Metal-Metal Bonds and Clusters in Chemistry and Catalysis John P. Fackler Jr., 2013-11-22 This book contains a series of papers and abstracts from the 7th Industry University Cooperative Chemistry Program symposium held in the spring of 1989 at Texas A M University The symposium was larger than previous IUCCP symposia since it also celebrated the 25 years that had elapsed since the initial discovery by F A Cotton and his co workers of the existence of metal metal quadruple bonds Cotton s discovery demonstrated that multiple bonding in inorganic systems is not governed by the same constraints observed in organic chemistry regarding s and p orbital involvement The d orbitals are involved in the multiple bonding description The quadruple bond involves considerable d orbital overlap between adjacent metal centers Part I of this series of papers focuses upon the impact of this discovery and describes further contributions to the development of the field Multiple metal metal bonding now is known to permeate broad areas of transition metal chemistry The understanding of metal metal bonding that developed as a result of the discovery of multiple metal metal bonding awakened a new chemistry involving metal clusters Clusters were defined by Cotton to be species containing metal metal bonding Clusters in catalysis therefore seemed a logical grouping of papers in this symposium Clusters play an every increasing role in the control of chemical reactions Part II of this book describes some of the interesting new developments in this field In Part III the papers examine the role clusters play in describing and understanding solid state materials *Metal-metal bonds and clusters in chemistry and catalysis* Barbie Navr, David Awan, 2020 **Homo- and Heterobimetallic Complexes in Catalysis** Philippe Kalck, 2016-06-14 The series Topics in Organometallic Chemistry presents critical overviews of research results in organometallic chemistry As our understanding of organometallic structure properties and mechanisms increases new ways are opened for the design of organometallic compounds and reactions tailored to the needs of such diverse areas as organic synthesis medical research biology and materials science Thus the scope of coverage includes a broad range of topics of pure and applied organometallic chemistry where new breakthroughs are being achieved that are of significance to a larger scientific audience The individual volumes of Topics in Organometallic Chemistry are thematic Review articles are generally invited by the volume editors All chapters from Topics in Organometallic Chemistry are published OnlineFirst with an individual DOI In references Topics in Organometallic Chemistry is abbreviated as Top Organomet Chem and cited as a journal Metal Clusters in Chemistry Luis A. Oro, Pierre Braunstein, Paul R. Raithby, 1999 Metal cluster chemistry is at the cutting edge between molecular and solid state chemistry and has therefore had a great impact on the researchers working on organic coordination and solid state chemistry catalysis physics and materials science The development of new sophisticated synthetic techniques has led to enormous progress in the synthesis of this diverse class of compounds The number of clusters is growing rapidly since the possible variations in the metal and ligand sphere are numerous Modern bonding theories such as the isolobal principle have allowed a better understanding of the structures and properties of metal

clusters and thus paved the way for the usage of these versatile materials Catalysis and nanomaterials are just two of the very promising application oriented fields Seventy six contributions written by world experts in this research field provide extensive coverage of different aspects of cluster chemistry ranging from synthesis structure determination and dynamics to applications Up to date information including an impressive collection of structural data and illustrations extensive coverage of the most important publications of the last decade and many more features make this three volume set a complete single source guide for all researchers working in the area of cluster chemistry

Organometallic Chemistry and Catalysis Didier Astruc, 2007-08-02 This volume covers both basic and advanced aspects of organometallic chemistry of all metals and catalysis In order to present a comprehensive view of the subject it provides broad coverage of organometallic chemistry itself The catalysis section includes the challenging activation and fictionalization of the main classes of hydrocarbons and the industrially crucial heterogeneous catalysis Summaries and exercises are provided at the end of each chapter and the answers to these exercises can be found at the back of the book Beginners in inorganic organic and organometallic chemistry as well as advanced scholars and chemists from academia and industry will find much value in this title

Advances in Organometallic Chemistry, 1993-09-20 *Advances in Organometallic Chemistry* *Metal Clusters in Chemistry* Pierre Braunstein, Luis A. Oro, Paul R. Raithby, 2000-01-11 Metal cluster chemistry is at the cutting edge between molecular and solid state chemistry and has therefore had a great impact on the researchers working on organic coordination and solid state chemistry catalysis physics and materials science The development of new sophisticated synthetic techniques has led to enormous progress in the synthesis of this diverse class of compounds The number of clusters is growing rapidly since the possible variations in the metal and ligand sphere are numerous Modern bonding theories such as the isolobal principle have allowed a better understanding of the structures and properties of metal clusters and thus paved the way for the usage of these versatile materials Catalysis and nanomaterials are just two of the very promising application oriented fields Seventy six contributions written by world experts in this research field provide extensive coverage of different aspects of cluster chemistry ranging from synthesis structure determination and dynamics to applications Up to date information including an impressive collection of structural data and illustrations extensive coverage of the most important publications of the last decade and many more features make this three volume set a complete single source guide for all researchers working in the area of cluster chemistry

Metal Clusters in Catalysis Bruce C. Gates, L. Guzzi, H. Knözinger, 1986 Research on metal clusters compounds with metal metal bonds has undergone explosive growth and the subject is now perhaps one of the hottest topics in organometallic chemistry The prospect of catalytic applications has motivated a large part of the research mentioned in this book the long term goal being to exploit the unique properties of metal clusters to prepare catalysts with new activities and selectivities This is the first book to address the role of metal clusters in catalysis The coverage is up to date and is particularly comprehensive ranging from molecular chemistry of clusters synthesis structure thermochemistry

reactivity and homogeneous catalysis to supported clusters molecular analogues on polymers and metal oxides and metals in zeolite cages Preparation by methods of organometallic surface chemistry and metal atom chemistry and characterization of surface structures by physical methods are highlighted Concepts unifying metal cluster chemistry and the chemistry of metal surfaces are elucidated Of particular value to the user will be the cluster and subject indexes The cluster index is organized in alphabetical order according to the metal

Cluster Chemistry Guillermo Gonzalez-Moraga, 2013-11-09 Cluster chemistry is one of the recent exciting areas of Inorganic Chemistry The occurrence of molecular clusters like fullerene C₆₀ constitutes a fundamental feature midway between the chemistry of isolated chemical compounds and that of the elements Main features of the Cluster Chemistry of both main group and transition metal elements are treated in this book The author highlights aspects related to the synthesis the structure the special bonding and the reactivity of these species The book is written as a textbook for senior undergraduate and postgraduate students References in tables and illustrations permit the reader to reach relevant original information Professor Gonzalez Moraga fills a demand for a publication appropriate for dissemination and specially for teaching this exciting subject From the Contents Current Concepts in Modern Chemistry Transition Metal Cluster Chemistry Main Group Transition Metal Mixed Clusters Cluster Compounds of the Main Group Elements Synthetic Analogues of the Active Sites of Iron Sulfur Proteins

The Synergy Between Dynamics and Reactivity at Clusters and Surfaces L.J. Farrugia, 2012-12-06 The analogy between the chemistry of molecular transition metal clusters and the processes of chemisorption and catalysis at metal surfaces the Cluster Surface analogy has for a number of years provided an interplay between experimental and theoretical inorganic and physical chemists This collaborative approach has born fruit in the use of well defined modes of metal ligand bonding in discrete molecular clusters models for metal ligand binding on surfaces Some of the key topics discussed in The Synergy between Dynamics and Reactivity at Clusters and Surfaces are

- 1 Mechanisms of the fluxional behaviour in clusters in the liquid phase and the connections with diffusion processes on extended surfaces The role of metal metal bond breaking in diffusion
- 2 Analogies in the structure of chemisorbed species and related ligands on metallic clusters
- 3 Analogies between benzene surface chemistry on extended metal surfaces and on metal surfaces in molecular cluster compounds with particular reference to structural distortions
- 4 The role of mobile precursors for dissociation of chemisorption on extended metals and on clusters Are there analogies in the ligand attachment during cluster compound synthesis
- 5 The role of defect sites on metal surfaces in catalyzing chemical reactions and the connection to the special bonding properties of sites on metal clusters having lowest metal metal coordination
- 6 The size of metal clusters needed to mimic surface phenomena on bulk metal surfaces Different sites needed for different phenomena

Catalysis by Di- and Polynuclear Metal Cluster Complexes Richard D. Adams, F. Albert Cotton, 1998-03-16 A pioneer work on catalysis of organic chemical reactions involving multinuclear metal complexes Catalysis by Di and Polynuclear Metal Cluster Complexes surveys the latest developments at the frontier of this exciting field

combining theory with new and original examples of catalytic processes produced by polynuclear metal complexes An invaluable resource for inorganic and organometallic chemists in industry and R D it contains chapters from world experts and scholars on Concepts and models for characterizing homogeneous reactions catalyzed by transition metal cluster complexes Activation of ruthenium clusters for use in catalysis Catalysis by mixed metal clusters containing gold phosphine groupings Catalysis by sulfido bridged dimolybdenum complexes Dimolybdenum and ditungsten complexes Synthesis of organic compounds catalyzed by transition metal clusters Catalysis with dirhodium II complexes Catalytic synthesis of polythioether macrocycles Catalysis of Rh Rh Co and Ir Co multinuclear complexes and its applications to organic syntheses Bimetallic hydroformylation catalysis Catalysis by colloids Catalysis with palladium clusters Heterometallic clusters for heterogeneous catalysis Supported clusters in catalysis Heteronuclear Metal-Metal Bonds R.D. Adams, 2004-09-16 The number of organometallic compounds containing heteronuclear metal metal bonds has grown tremendously in the last ten years Also known as cluster compounds these compounds have been found to exhibit a rich diversity of molecular structures and reactivities Descriptions of the structures and transformations of the complexes are central features Separate chapters have been prepared for compounds containing bonds between transition metals and the metals of the copper and zinc subgroups Unlike COMC this volume contains an entire chapter devoted to studies of heteronuclear metal compounds in catalysis **Physics and Chemistry of Metal Cluster Compounds** L.J. de Jongh, 2013-03-09 On Friday February 20 1980 I had the pleasure to be present at the inaugural lecture of my colleague Jan Reedijk who had just been named at the Chair of Inorganic Chemistry of Leiden University According to tradition the ceremony took place in the impressive Hall of the old University Academy Building In the course of his lecture Jan mentioned a number of recent developments in chemistry which had struck him as particularly important or interesting Among those was the synthesis of large metal cluster compounds and to my luck he showed a slide of the molecular structure of Pt₉ C₄ To my luck since at traditional Leiden University it is quite unusual to show slides at such ceremonies This constituted my first acquaintance with this exciting new class of materials I became immediately fascinated by this molecule partly because of the esthetic beauty of its fivefold symmetry partly because as a physicist it struck me that it could be visualized as an embryonically small metal particle embedded in a shell of CO ligands *Surface Organometallic Chemistry: Molecular Approaches to Surface Catalysis* Jean-Marie Basset, Bruce C. Gates, Jean-Pierre Candy, Agnès Choplin, Michel Leconte, Françoise Quignard, Cathérine Santini, 2012-12-06 Surface organometallic chemistry is a new field bringing together researchers from organometallic inorganic and surface chemistry and catalysis Topics ranging from reaction mechanisms to catalyst preparation are considered from a molecular basis according to which the active site on a catalyst surface has a supra molecular character This the first book on the subject is the outcome of a NATO Workshop held in Le Rouret France in May 1986 It is our hope that the following chapters and the concluding summary of recommendations for research may help to provide a definition of surface organometallic

chemistry Besides catalysis the central theme of the Workshop four main topics are considered 1 Reactions of organometallics with surfaces of metal oxides metals and zeolites 2 Molecular models of surfaces metal oxides and metals 3 Molecular approaches to the mechanisms of surface reactions 4 Synthesis and modification of zeolites and related microporous solids Most surface organometallic chemistry has been carried out on amorphous high surface area metal oxides such as silica alumina magnesia and titania The first chapter contributed by KNOZINGER gives a short summary of the structure and reactivity of metal oxide surfaces Most of our understanding of these surfaces is based on acid base and redox chemistry this chemistry has developed from X ray and spectroscopic data and much has been inferred from the structures and reactivities of adsorbed organic probe molecules There are major opportunities for extending this understanding by use of well defined single crystal oxide surfaces and organometallic probe molecules

Transition Metal Carbonyl Cluster Chemistry Paul J. Dyson, J. Scott McIndoe, 2018-10-03 Transition metal carbonyl clusters TMCCs continue to inspire great interest in chemical research as much for their fascinating structures as for potential industrial applications conferred by their unique properties This highly accessible book introduces the bonding structure spectroscopic properties and characterization of clusters and then explores their synthesis reactivity reaction mechanisms and use in organic synthesis and catalysis Transition Metal Carbonyl Cluster Chemistry describes models and rules that correlate cluster structure with electron count which are then applied in worked examples Subsequent chapters explain how bonding relates to molecular structure demonstrate the use of spectroscopic techniques such as NMR IR and MS in cluster chemistry and outline the factors contributing to the stability dynamics and reactivity of clusters The second part of this book discusses the synthesis and applications of TMCCs It emphasizes the differences between the reactivities of clusters vs mononuclear metal complexes contingent to the availability of multiple bonding sites and heterosite reactivity The final chapters discuss reactions in which clusters act as homogeneous catalysts including discussion on the use of solid and biphasic liquid liquid supported clusters in heterogeneous catalysts A useful reference for those commencing further research or post graduate study on metal carbonyl clusters and advanced organometallic chemistry this book is also a cornerstone addition to academic and libraries as well as private collections *Science Indicators*, 1980

Report of the National Science Board, *Science Indicators*, 1980 National Science Board (U.S.), 1981

Progress in Inorganic Chemistry, Volume 29 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

[Advances in Molecular Structure Research](#), 1996-03-20 Advances in Molecular Structure Research

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