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WJ Hussar



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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 Pt_9C_4 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

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

Chemical Bonds - Better Ways to Make Them and Break Them Bozzano G Luisa, 2012-12-02 Stereochemistry of Organometallic and Inorganic Compounds Volume 3 Chemical Bonds Better Ways to Make Them and Break Them focuses on the processes methodologies reactions and approaches involved in the making and breaking of bonds The selection first tackles heterometallic clusters in catalysis and steric and electronic effects on the photochemical reactions of metal metal bonded carbonyls Discussions focus on heterodinuclear metal carbonyls hybrid catalysts prepared from molecular mixed metal clusters and heterometallic clusters in homogeneous catalysis The book then examines the stereochemical aspects of organometallic clusters including reactivity dynamics and the structures and rationalization of bonding in alkyne substituted clusters The publication takes a look at the stereochemistry of the Sakurai reaction as well as intermolecular and intramolecular reactions optically active allylsilanes and other reactions The selection is a highly recommended source of data for chemists and readers interested in the making and breaking of chemical bonds

Latest Advances in Atomic Cluster Collisions Andrey Solov'Yov, 2008 This book presents a snapshot of the most recent and significant advances in the field of cluster physics It is a comprehensive review based on contributions by the participants of the 2nd International Symposium on Atomic Cluster Collisions ISACC 2007 held in July 190Co23 2007 at GSI Darmstadt Germany The purpose of the Symposium is to promote the growth and exchange of scientific information on the structure and properties of nuclear atomic molecular biological and

complex cluster systems studied by means of photonic electronic heavy particle and atomic collisions Particular attention is devoted to dynamic phenomena many body effects taking place in cluster systems of a different nature OCo these include problems of fusion and fission fragmentation collective electron excitations phase transitions etc Both the experimental and theoretical aspects of cluster physics uniquely placed between nuclear physics on the one hand and atomic molecular and solid state physics on the other are discussed *Chemisorption and Reactivity on Supported Clusters and Thin Films*: R.M. Lambert, Gianfranco Pacchioni, 2013-04-17 Heterogeneous catalysis provides the backbone of the world's chemical and oil industries The innate complexity of practical catalytic systems suggests that useful progress should be achievable by investigating key aspects of catalysis by experimental studies on idealised model systems Thin films and supported clusters are two promising types of model system that can be used for this purpose since they mimic important aspects of the properties of practical dispersed catalysts Similarly appropriate theoretical studies of chemisorption and surface reaction clusters or extended slab systems can provide valuable information on the factors that underlie bonding and catalytic activity This volume describes such experimental and theoretical approaches to the surface chemistry and catalytic behaviour of metals metal oxides and metal metal oxide systems An introduction to the principles and main themes of heterogeneous catalysis is followed by detailed accounts of the application of modern experimental and theoretical techniques to fundamental problems The application of advanced experimental methods is complemented by a full description of theoretical procedures including Hartree Fock density functional and similar techniques The relative merits of the various approaches are considered and directions for future progress are indicated *New Trends in CO Activation* L. Gucci, 1991-06-25 The aim of this volume is to provide scientists with a comprehensive summary of new research areas in the activation of carbon monoxide as one of the most reactive molecules and in its applications In order to understand the variety of the reactivity of CO a quantum chemical approach helps the reader to understand the binding state of CO to the solid surface Chapter 1 The structure of the adsorbed CO can be better understood by examining its reactivity towards single crystals in the absence and in the presence of promoters Chapter 2 The first approach in the reactivity study is that of studying catalytic activity of single crystals and structure sensitivity which are summarized in Chapter 3 One of the most prominent effects in the CO activation process is ascribed to the presence of additives promoters which in a real catalyst system are far more complicated than on single crystal surfaces Chapter 4 The original Fischer Tropsch process applied fused iron or cobalt catalysts which were suitable for producing mainly straight chain hydrocarbons The two most important processes involving CO activation the new FT process and alcohol formation are discussed in Chapters 5 and 7 An important type of catalyst the bimetallic catalysts is discussed in Chapter 6 The role of hydrogen as one of the most frequently used partners in CO activation is discussed in Chapter 8 The field of production of specialty chemicals is an excellent example of the homogeneous catalytic activation of CO Chapter 9 In Chapter 10 an overview is given of the industrial applications of CO

chemistry and these are illustrated by working processes The final chapter gives the reader some hints about future progress in the field Petroleum Refining Processes James G. Speight, Baki Ozum, 2001-10-31 This work highlights contemporary approaches to resource utilization and provides comprehensive coverage of technological advances in residuum conversion It illustrates state of the art engineering methods for the refinement of heavy oils bitumen and other high sulphur feedstocks

Physics of Solid Surfaces 1981: Symposium Proceedings (Studies in Surface Science and Catalysis) ,2000-04-01 Physics of Solid Surfaces 1981 Symposium Proceedings Studies in Surface Science and Catalysis Fundamentals of Industrial Catalytic Processes C. H. Bartholomew, Robert J. Farrauto, 2011-11-30 Catalysis is central to the chemical industry as it is directly or involved in the production of almost all useful chemical products In this book the authors present the definitive account of industrial catalytic processes Throughout Fundamentals of Industrial Catalytic Processes the information is illustrated with many case studies and problems This book is valuable to anyone wanting a clear account of industrial catalytic processes but is particularly useful to industrial and academic chemists and engineers and graduate working on catalysis This book also Covers fundamentals of catalytic processes including chemistry catalyst preparation properties and reaction engineering Addresses heterogeneous catalytic processes employed by industry Provides detailed data on existing catalysts and catalytic reactions process design and chemical engineering Covers catalysts used in fuel cells *Inorganic Syntheses* ,2009-09-22 The volumes in this continuing series provide a compilation of current techniques and ideas in inorganic synthetic chemistry Includes inorganic polymer syntheses and preparation of important inorganic solids syntheses used in the development of pharmacologically active inorganic compounds small molecule coordination complexes and related compounds Also contains valuable information on transition organometallic compounds including species with metal metal cluster molecules All syntheses presented here have been tested Elementary Processes in Excitations and Reactions on Solid Surfaces Ayao Okiji, Hideaki Kasai, Kenji Makoshi, 2012-12-06 Elementary Processes in Excitations and Reactions on Solid Surfaces explores the fundamental nature of dynamics on solid surfaces Attempts are made to reveal various aspects of elementary processes in excitations and reactions on solid surfaces by recent theoretical and experimental developments of the subjects such as molecular beams interacting with surfaces ion beam scattering laser induced dynamical processes electronically induced dynamical processes and optical properties of solid surfaces This volume is divided into three parts Part I is concerned mainly with the rich reaction dynamics on potential energy surfaces Part II is devoted to the interplay of excitations In Part III new and rapidly developing methods are introduced **The Chemistry and Technology of Petroleum** James G. Speight, 2014-02-26 With demand for petroleum products increasing worldwide there is a tendency for existing refineries to seek new approaches to optimize efficiency and throughput In addition changes in product specifications due to environmental regulations greatly influence the development of petroleum refining technologies These factors underlie the need for t **Catalysts in Petroleum Refining 1989** D.L. Trimm, S. Akashah, A. Bishara, M.

Absi-Halabi,1990-01-22 These proceedings reflect the important role of catalysis in petroleum refining and the effects of factors such as environmental legislation on the industry They also show the emergence of significant scientific expertise in the Middle East the cradle of the oil industry Participants from all over the world took part in the meeting and the book contains a well balanced selection of articles from both academia and industry Current trends in the oil industry focused attention mainly on heavy end hydrotreating but other processes also gained their share of attention An invaluable feature of the meeting was the two panel discussions where participants took the opportunity to obtain advance on many real and immediate problems

Science and Technology in Catalysis Masakazu Anpo,M. Onaka,H. Yamashita,2003-07-09 Selected Plenary Lectures New Catalysts for Controlled Living Atom Transfer Radical Polymerization ATRP Catalysis and Applications of Gold Nanoparticles Oral Presentations Ionic Liquids as New Solvents and Catalysis for Petrochemical and Refining Processes High Throughput Experiment on the Investigation of Oxidation Catalysts with Gas Sensor System Poster Presentations Development of a Low Temperature Dioxin Decomposition Catalyst Studies on Unique Properties of Polyolefins Prepared with Metallocene Catalyst Systems Index

Characterization and Chemical Modification of the Silica Surface E.F. Vansant,P. Van Der Voort,K.C. Vrancken,1995-04-25 Oxide surface materials are widely used in many applications in particular where chemically modified oxide surfaces are involved Indeed in disciplines such as separation catalysis bioengineering electronics ceramics etc modified oxide surfaces are very important In all cases the knowledge of their chemical and surface characteristics is of great importance for the understanding and eventual improvement of their performances This book reviews the latest techniques and procedures in the characterization and chemical modification of the silica surface presenting a unified and state of the art approach to the relevant analysis techniques and modification procedures covering 1000 references integrated into one clear concept

Catalyst Deactivation 1994 G.F. Froment,B. Delmon,1994-09-08 Catalyst Deactivation 1994 was an expansion of earlier highly successful symposia The objective of the symposium was to promote a scientific approach of the phenomenon of catalyst deactivation which will contribute to the development of catalysts which are less subject to structural transformations and more resistant to poisons and coke formation These aspects are dealt with in 12 plenary lectures 48 oral presentations and 35 poster papers which were critically selected from an impressive response from some 30 countries Both fundamental and applied aspects were covered The deactivation of catalysts in important industrial processes like fluid bed catalytic cracking hydrotreatment hydrodesulfurization catalytic reforming hydrodenitrogenation steam reforming hydrodemetallization hydrocracking Fischer Tropsch synthesis propane dehydrogenation phthalic anhydride synthesis received considerable attention Mechanisms of poisoning sintering and coking were further investigated and modelled and new experimental techniques for the characterization and the quantification of deactivation were also introduced

Innovation in Zeolite Materials Science P.J. Grobet,W.J. Mortier,E.F. Vansant,G. Schulz-Ekloff,2011-09-22 The proceedings of this zeolite scientific meeting reflect

the growing drive to discover new materials It is evident that zeolite materials science is in a post ZSM 5 period pushed by a massive expansion of new compositions and topologies and the application of new scientific tools Four new zeolite topologies were detailed at this meeting Important new trends were the resurgence of interest in computational and theoretical approaches to explain synthesis sorption and catalytic data and the increasing use of NMR and high resolution imaging

Recent Advances in Zeolite Science J. Klinowski,P.J. Barrie,1989-11-28 Interest in zeolites continues to grow making it vital to keep up to date with recent findings These proceedings include some of the latest discoveries in the zeolite field Four plenary lectures provide in depth coverage of key topics namely the influence of diffusion on catalysis recent advances in synthesis modification of zeolites by alumination and quantum chemical studies of acidity These are followed by nineteen papers written by contributors from all over the world covering a wide range of material of current interest Several synthetic studies are presented including the introduction of heteroatoms to induce higher catalytic acidity Acidity and catalysis are probed by solid state NMR and discussed through theoretical calculations Two papers are concerned with the growing interest in using zeolites to catalyze shape selective organic reactions There are specific studies of zeolite characterization by NMR and electron energy loss spectroscopy There are also a number of quantum chemical papers on zeolite stability and on the location of adsorbed species The material presented is particularly up to date and will be of considerable interest to all research groups involved in zeolite sciences Introduction to Zeolite Science and Practice E.M. Flanigen,J.C.

Jansen,Herman van Bekkum,1991-02-05 Zeolites and related molecular sieves have quickly become important pathways to new opportunities in the fields of oil processing and petrochemical synthesis The signs of intense activity in both industry and academia are evident burgeoning papers and patent applications increasing numbers of industrial zeolite based processes and their rapid expansion into organic chemicals manufacturing recent progress in zeolite accessibility range matrix behaviour lattice components and satellite structures and the recognition that zeolites which are stable and can be regenerated may be incorporated into new environmentally friendly processes This volume offers a thorough up to date introduction to zeolites and such related materials as crystalline aluminium phosphates and clays Its 16 chapters each written by specialists provide detailed treatments of zeolite theory including a review of major developments zeolite laboratory and research practice and zeolite industry applications Students and individuals entering the field will find Introduction to Zeolite Science and Practice a thorough guidebook Experienced researchers will appreciate its in depth coverage of the zeolite spectrum including the latest views on zeolite structure characterization and applications **Recent**

Advances and New Horizons in Zeolite Science and Technology H. Chon,S.I. Woo,S.-E. Park,1996-07-08 This volume was conceived as a handbook for the Pre Conference Summer School on Zeolites held in Taejon Korea The 11th IZC Summer School was organized to acquaint those already actively working in zeolite science and technology with the latest developments and to develop new prospects of zeolite science and technology for the 21st century The aim of this volume is

to give an extensive review and analysis of the important new findings of the last 10 years on the synthesis characterization and applications of zeolite materials as well as the prediction of new R D directions for the next decade

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