



Metallocenes Synthesis Reactivity Applications

R. Bruce King



Metalloenes Synthesis Reactivity Applications:

Metalloenes Antonio Togni, Ronald L. Halterman, 1998-10-15 That terms like sandwich complexes or the concept of compounds without direct chemical bonds between the central metal atom and the ligating atoms are nowadays common knowledge can be attributed to the sensational discovery of ferrocene in the early 1950s Although ferrocene is still at the forefront of research this two volume book highlights the development of metallocene chemistry and emphasizes the similarities and differences between ferrocene and other metallocenes Do you require a transition metal to build metallocenes Must the planes of the cyclopentadienyl ligands be parallel to allow the compound to behave like a typical metallocene Do zirconocenes react by the same mechanism as molybdenocenes What are the potential applications of these substances Let yourself be guided by the leading experts in this field and learn all about the synthesis reactivity and unique properties of these sandwich complexes If you are more interested in applications there is a wealth of polymeric and dendritic materials with metallocene building blocks described herein This book also focusses on metallocenes as catalysts in polymerization or asymmetric reactions If you are graduate student or researcher in organic inorganic organometallic polymer chemistry and materials science you will find this book an inspiring source of ideas for your own research

Metalloenes 2e V1 and 2 - Synthesis, Reactivity, Applications A. Togni, 2006-05 **Chemical Reactivity Theory** Pratim Kumar Chattaraj, 2009-02-23 In the 1970s Density Functional Theory DFT was borrowed from physics and adapted to chemistry by a handful of visionaries Now chemical DFT is a diverse and rapidly growing field its progress fueled by numerous developing practical descriptors that make DFT as useful as it is vast With 34 chapters written by 65 eminent scientists from 13 diffe **Organometallics** Christoph Elschenbroich, 2016-02-10 THE textbook on organometallic chemistry Comprehensive and up to date the German original is already a classic making this third completely revised and updated English edition a must for graduate students and lecturers in chemistry inorganic chemists chemists working with on organometallics bioinorganic chemists complex chemists and libraries Over one third of the chapters have been expanded to incorporate developments since the previous editions while the chapter on organometallic catalysis in synthesis and production appears for the first time in this form From the reviews of the first English editions The selection of material and the order of its presentation is first class Students and their instructors will find this book extraordinarily easy to use and extraordinarily useful Chemistry in Britain Elschenbroich and Salzer have written the textbook of choice for graduate or senior level courses that place an equal emphasis on main group element and transition metal organometallic chemistry this book can be unequivocally recommended to any teacher or student of organometallic chemistry *Angewandte Chemie International Edition* The breadth and depth of coverage are outstanding and the excitement of synthetic organometallic chemistry comes across very strongly *Journal of the American Chemical Society* *Introduction to Modern Inorganic Chemistry, 6th edition* R.A. Mackay, W. Henderson, 2017-12-21 This popular and comprehensive textbook provides all the

basic information on inorganic chemistry that undergraduates need to know For this sixth edition the contents have undergone a complete revision to reflect progress in areas of research new and modified techniques and their applications and use of software packages Introduction to Modern Inorganic Chemistry begins by explaining the electronic structure and properties of atoms then describes the principles of bonding in diatomic and polyatomic covalent molecules the solid state and solution chemistry Further on in the book the general properties of the periodic table are studied along with specific elements and groups such as hydrogen the s elements the lanthanides the actinides the transition metals and the p block Simple and advanced examples are mixed throughout to increase the depth of students understanding This edition has a completely new layout including revised artwork case study boxes technical notes and examples All of the problems have been revised and extended and include notes to assist with approaches and solutions It is an excellent tool to help students see how inorganic chemistry applies to medicine the environment and biological topics *Late Transition Metal*

Polymerization Catalysis Bernhard Rieger, Lisa Saunders Baugh, Smita Kacker, Susanne Striegler, 2006-03-06 At the start of the 1950s Ziegler and Natta discovered that simple metallorganic catalysts are capable of transforming olefins into linear polymers with highly ordered structures This pioneering discovery was recognized with a Nobel Prize in 1963 In the 80s and 90s the development of molecular defined metallocenes led to a renaissance for non polar polyolefin materials Designer catalysts allowed a greater precision in defining properties of the material The past 10 years have seen the discovery of new catalysts based on late transition metals which allow the combination of polar monomers with non polar olefins and thus lead to innovative materials Here the world s leading authors from industry and academia describe the latest developments in this fascinating field for the first time in such comprehensive detail In so doing they introduce readers systematically to the basic principles and show how these new catalysts can effectively be used for polymerization reactions This makes the book an ideal and indispensable reference for specialists advanced students and scientists of various disciplines dealing with research into catalysts and materials science **Organosilicon Compounds, Two volume set** Vladimir Ya Lee, 2017-10-01

Organosilicon Compounds provides readers with the state of the art status of organosilicon chemistry including its theoretical synthetic physico chemical and applied aspects By including high quality content in a key strategic signing area this work is a strong addition to chemistry offerings in organic main group and organometallic research Organosilicon chemistry deals with compounds containing carbon silicon bonds an essential part of organic and organometallic chemistry This book presents the many milestone in the field that have been discovered during the last few years also detailing its usage in commercial products such as sealants adhesives and coatings Features valuable contributions from prominent experts who cover both fundamental theoretical synthetic physico chemical and applied material science applications aspects Covers important breakthroughs in the field along with historically significant achievements Includes applied information for a wide range of specialists from junior and senior researchers from both academia and industry working in organometallic

organosilicon main group element transition metal industrial silicon chemistry and more

Copolymerisation of Propylene with Novel Functional Comonomers Using Metallocene Catalyst Atila Kaya, 2002

An Introduction to Plastics Hans-Georg Elias, 2003-11-07 Die Leser mussten lange warten Jetzt endlich zehn Jahre nach Erscheinen der ersten Auflage gibt es die grundlegend bearbeitete Neuauflage dieses Klassikers inhaltlich erweitert und neu strukturiert Doch an seinem Konzept hat sich nichts geändert Es ist eine präzise aber nicht mathematische Einführung in das Gebiet der Kunststoffe Die ökonomische Bedeutung von Kunststoffen bzw Polymeren ist weiterhin enorm Höchstes Zeit also für die Neuauflage dieser erfolgreichen Einführung Sie gibt einen aktuellen und ebenso klaren wie detaillierten Überblick über Rohstoffe Herstellungsverfahren und die Materialeigenschaften der Kunststoffe Letztere werden zu den molekularen und supermolekularen Eigenschaften der Polymere in Beziehung gesetzt Die Kapitel zu Polymerverbindungen Morphologie Fließverhalten und Verarbeitung wurden gegenüber der ersten Auflage erheblich erweitert Neu hinzugekommen sind Abschnitte zur elektrischen Leitfähigkeit sowie zu nicht linearen optischen Eigenschaften Auch werden die neuesten Entsorgungsverfahren Bescheid wissen möchte wird von Elias bestens informiert Ein wesentlicher Grund für den Erfolg der Voraufgabe sollte auch ihre Fortsetzung zum Bestseller werden lassen der klare mitunter brillante Stil des Autors So komplex die Materie auch sein mag Elias findet die angemessene sprachliche Form Dass Verständlichkeit in diesem Buch ganz groß geschrieben wird belegen auch sein Aufbau sowie der sehr praktische übersichtliche Index Ob Chemiker Physiker Materialwissenschaftler Ingenieure oder Techniker Wer sich einen Überblick über Kunststoffe und Polymere verschaffen möchte dürfte kaum ein geeigneteres Buch finden

European Journal of Inorganic Chemistry, 2004

Theoretical Characterization of C-H Bond Activation in Organometallic and Biomimetic Systems John Leonard Lewin, 2007

Applied Homogeneous Catalysis with Organometallic Compounds Boy Cornils, Wolfgang A. Herrmann, 2002-05-22

Homogeneous catalysis is the success story of organometallic chemistry Since the discovery of hydroformylation by O Roelen in 1938 catalytic applications have paved the way of organometallic compounds in industry Bulk and fine chemicals and even natural products are being produced via homogeneous organometallic catalysis The enormous breadth of this topic in view of both basic research and industrial application is met in this three volume handbook edited jointly by W A Herrmann and B Cornils The list of contributors reads like a who is who in organometallic chemistry and homogeneous catalysis In this handbook experts will find the current state of the art in their field and advanced students will benefit from the concise treatment of important catalytic reactions and processes With its balanced presentation of the truly interdisciplinary topic and its outstanding editor and authorship the Cornils Herrmann is beyond common standards Now in its second completely revised and enlarged edition

Organotransition Metal Chemistry John F. Hartwig, 2010-02-10 Based on Collman et al s best selling classic book Principles and Applications of Organotransition Metal Chemistry Hartwig s text consists of new or thoroughly updated and restructured chapters and provides an in depth view into mechanism reaction scope and applications

It covers the most important developments in the field over the last twenty years with great clarity with a selective but thorough and authoritative coverage of the fundamentals of organometallic chemistry the elementary reactions of these complexes and many catalytic processes occurring through organometallic intermediates making this the Organotransition Metal Chemistry text for a new generation of scientists **Journal** American Chemical Society,2004 **Canadian Journal of Chemistry** ,2002 *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 **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 **Encyclopedia of Inorganic Chemistry: T-Z** R. Bruce King,2005 **Encyclopedia of Catalysis** István T. Horváth,2003 Catalysis the speeding up of a chemical reaction by a substance which itself does not react is vital not only to the chemical process industry but also

to life itself The six volume Encyclopedia of Catalysis is the definitive A to Z reference work covering the most significant aspects of homogenous heterogeneous asymmetric biomimetic and biological catalysis Available both on line and in print the state of the art Encyclopedia encompasses the principles of catalysis the scope of catalytic reactions the preparation characterization and use of catalysts including catalytic technology the modeling of catalytic processes and related reaction engineering techniques The logical organization of this seminal work renders the text easily accessible to both process personnel and those involved in basic and applied research and development For more information regarding the online edition please visit Wiley InterScience at www.mrw.interscience.wiley.com/encat

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