

Marko Hapke  
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# Metallocenes in Regio- and Stereoselective Synthesis

# Metallocenes In Stereoselective Synthesis

**K H Dtz**



## **Metallocenes In Stereoselective Synthesis:**

**Metallocenes in Regio- and Stereoselective Synthesis** Tamotsu Takahashi, K. Kanno, 2005-01-12 Metallocene is a well known sandwich complex with two cyclopentadienyl ligands such as ferrocene. Recently such metallocene compounds have been found to be very characteristic and they have become very important not only in the area of organic synthesis but also in polymerization in industry. Metal complexes with one cyclopentadienyl ligand have also become popular as half sandwich complexes. The number of researchers in the field of metallocenes has increased rapidly. However the origin of the characteristic reactivity of metallocenes is not fully understood. In this volume the chemistry of metal complexes with at least one cyclopentadienyl ligand is comprehensively covered by leading experts. Reactions discussed here are: i) natural product synthesis ii) catalytic asymmetric synthesis iii) cyclization reactions iv) catalytic reactions v) polymerization reactions and vi) carbon carbon bond cleavage reactions. The reader will have access to useful information about the current state of metallocene chemistry.

**Metallocenes in Regio- and Stereoselective Synthesis** Marko Hapke, Martin Kotor, 2024-05-29 This book presents the latest synthetic protocols for the assembly of functionalized Cp ligands and their transition metal complexes. Cyclopentadienyl Cp complexes of transition metals belong to the most important classes of transition metal complexes with tightly bound ligands in the coordination sphere since their discovery in the middle of the last century. Even though they have been known for a long time this field constantly evolves to deliver novel modified Cp ligands and complexes and to blossom into new fields of application. Beside the synthesis of ligands and metal complexes this book concentrates on novel and prospering fields of their application in organic synthesis. In this respect the Cp complexes have been applied to induce and catalyze various significant chemical transformations such as new C-C bond formation involving unsaturated substrates e.g. cyclotrimerizations cycloadditions carbometallations etc. C-H bond and C-C bond activations followed by subsequent reactions e.g. arylation alkenylations annulations etc. as well as many other processes. This volume also covers the recent development and application of chiral Cp complexes in enantioselective synthesis.

*Stereoselective Polymerization with Single-Site Catalysts* Lisa S. Baugh, Jo Ann M. Canich, 2007-11-29 New synthetic techniques allow chemists to modify polymer microstructures more precisely than ever making it possible to design materials that meet increasingly demanding performance requirements. Written and edited by experts in the field *Stereoselective Polymerization with Single Site Catalysts* reviews how the relative stereochemistry of Organolithiums in Enantioselective Synthesis David M. Hodgson, 2003-04-30 This volume is the first dedicated to a comprehensive coverage of this rapidly developing transdisciplinary field. It provides a rich source of essential information on synthesizing molecules in an enantioselective manner using organolithiums and serves as an inspiration for future developments. *Metal Carbenes in Organic Synthesis* K. H. Dtz, 2004-09-21 With contributions by numerous experts. **Transition Metal Arene  $\pi$ -Complexes in Organic Synthesis and Catalysis** Peter E. Kündig, 2004-09-03 Metal arene  $\pi$  complexes show a rich and varied

chemistry The metal adds a third dimension to the planar aromatic compounds and coordination of a metal to an arene thus not only altering the reactivity of ring carbons and substituents but also makes possible reactions that lead to chiral non racemic products This book organized in nine chapters and written by leading scientists in the field provides the reader with an up to date treatise on the subject organized according to reaction type and use It covers the wide spectrum of arene activation from the electrophilic activation of h6 bound arene by pi Lewis acid metal complex fragments to reactions of nucleophilic h2 coordinated arene complexes The preparation of complexes is detailed as are the scope limitations and challenges of reactions in contemporary pi arene metal chemistry with special attention given to asymmetric transformations The emphasis of the book is on transformations of interest to organic synthesis and on the use of the complexes as catalysts or as chiral ligands The book is written for academic and industrial researchers in organic organometallic and inorganic chemistry as well as for advanced chemistry students *Precursor Chemistry of Advanced Materials* Roland A.

Fischer,2005-09-29 Material synthesis by the transformation of organometallic compounds precursors by vapor deposition techniques such as chemical vapor deposition CVD and atomic layer deposition ALD has been in the forefront of modern day research and development of new materials There exists a need for new routes for designing and synthesizing new precursors as well as the application of established molecular precursors to derive tuneable materials for technological demands With regard to the precursor chemistry a most detailed understanding of the mechanistic complexity of materials formation from molecular precursors is very important for further development of new processes and advanced materials To emphasize and stimulate research in these areas this volume comprises a selection of case studies covering various key aspects of the interplay of precursor chemistry with the process conditions of materials formation particularly looking at the similarities and differences of CVD ALD and nanoparticle synthesis e g colloid chemistry involving tailored molecular precursors Surface and Interfacial Organometallic Chemistry and Catalysis C. Copéret,Bruno Chaudret,2005-11-03 With contributions by numerous experts

Polyolefin Fibres S C O Ugbohue,2017-06-09 Polyolefin Fibres Structure Properties and Industrial Applications Second Edition explores one of the most widely used commercial polymers with a focus on the most important polyolefins namely polyethylene polypropylene and polyolefin bicomponent fibres These versatile fibres are durable chemically resistant lightweight economical and functional This new edition has been updated and expanded to include cutting edge research on a broad range of advanced applications Part I covers the structure and properties of polyolefin fibres incorporating a new chapter on the environmental aspects of polyolefin use Part II examines the methods for improving the functionality of polyolefins providing essential information for those engaged in developing high performance materials A final group of chapters addresses how polyolefin fibres can be incorporated into specific textile applications such as automotive geotextile biomedical and hygiene products and explores potential future development This book is an essential reference for textile technologists and manufacturers polymer and fibre scientists yarn and fabric manufacturers

biomedical and device engineers and industrialists and researchers Introduces the types properties and structure of polyolefin fibers for readers new to the polyolefins field Examines methods to improve the functionality of polyolefin fibers providing essential information for textile technologists and research and development managers engaged in developing high performance materials Presents existing and potential applications of polyolefin fibers exploring how they can expand the range of commercial polyolefin based products

**Catalytic Carbonylation Reactions** Matthias Beller, 2006-09-08 In this book leading experts from academia and industry offer a comprehensive presentation and discussion of the major reaction types of carbon monoxide The authors highlight important carbonylation reactions such as hydroformylation alkoxy carbonylations co olefin copolymerization Pauson Khand reactions and others They illustrate applications in organic synthesis and give industrial examples This volume is designed to provide graduate students and researchers with essential information on the use of carbon monoxide in organic synthesis

**Dendrimer Catalysis** Lutz H. Gade, 2006-08-16 This book provides a comprehensive summary and critical overview of a topic in organometallic chemistry Research in this rapidly developing transdisciplinary field is having profound influence on other areas of scientific investigation ranging from catalytic organic synthesis to biology medicine and material science The book is complemented by a review of metallodendritic exoreptors for the redox recognition of oxo anions and halides

**Organometallic Oxidation Catalysis** Franc Meyer, Christian Limberg, 2007-01-30 Eighty per cent of all compounds produced in the chemical and pharmaceutical industries require at least one essential catalytic step during their synthesis At the same time the use of hydrocarbons as a feed stock for commodity and fine chemicals typically requires an oxidation step which is usually mediated by a transition metal compound Consequently oxidation catalysis is a major research field in chemistry both in academia and in industry In many such processes species with metal carbon bonds are formed as key intermediates and these processes represent the primary focus of this volume An important aspect covered by some of the expert contributors is the use of organic ligands and thus organometallic complex metal fragments to achieve efficient oxidation catalysis It has not been self evident that organometallic complexes can survive the conditions necessary for polar oxygen transfer reactions but research over the last decade concerning oxo and peroxo complexes functionalized by organic ligands has clearly shown that relatively non polar M C bonds can be quite stable in the presence of oxidants and protic media and that they may even be essential for the favourable activity and life time of a catalyst Also considered in this context is the oxidation chemistry of basic organometallic species in the gas phase as this may reveal fundamental characteristics inherent to oxidation catalysts

**Regulated Systems for Multiphase Catalysis** Walter Leitner, 2008-07-11 Multiphase catalysis is a key technology for the competitive and sustainable production of fine chemicals in coming decades A joint academic and industry consortium has developed tools for considering complex chemical and process based requirements when setting up a catalytic system This book shows how the resulting competence covers such supercritical fluid SCF technology in catalysis ionic liquids II

ligand design for SFCs and ionic thermomorphic solvent systems reactor design and more      Directed Metallation Naoto Chatani, 2007-10-30 This book provides the broad scientific readership with a comprehensive summary and critical overview of a topic in organometallic chemistry A wide variety of catalytic functionalization reactions of C-H bonds by the utilization of a chelation have been developed recently and are comprehensively discussed in this book by leading experts In addition new approaches to directed hydrometalation and directed carbometalation as a key step are also discussed      **N-Heterocyclic**

**Carbenes in Transition Metal Catalysis** Frank Glorius, 2007-02-05 In this book leading experts have surveyed major areas of application of NHC metal complexes in catalysis The authors have placed a special focus on nickel and palladium catalyzed reactions on applications in metathesis reactions on oxidation reactions and on the use of chiral NHC based catalysts This compilation is rounded out by an introductory chapter and a chapter dealing with synthetic routes to NHC metal complexes

Metal Catalysts in Olefin Polymerization Zhibin Guan, 2009-03-31 Polyolefin is a major industry that is important for our economy and impacts every aspect of our lives The discovery of new transition metal based catalysts is one of the driving forces for the further advancement of this field Whereas the classical heterogeneous Ziegler-Natta catalysts and homogeneous early transition metal metallocene catalysts remain the workhorses of the polyolefin industry in roughly the last decade tremendous progress has been made in developing non metallocene based olefin polymerization catalysts Particularly the discovery of late transition metal based olefin polymerization catalysts heralds a new era for this field These late transition metal complexes not only exhibit high activities rivaling their early metal counterparts but more importantly they offer unique properties for polymer architectural control and copolymerization with polar olefins In this book the most recent major breakthroughs in the development of new olefin polymerization catalysts including early metal metallocene and non metallocene complexes and late transition metal complexes are discussed by leading experts The authors highlight the most important discoveries in catalysts and their applications in designing new polyolefin based functional materials

**Bio-inspired Catalysts** Thomas R. Ward, 2009-02-19 In order to meet the ever increasing demands for enantiopure compounds heterogeneous homogeneous and enzymatic catalysis evolved independently in the past Although all three approaches have yielded industrially viable processes the latter two are the most widely used and can be regarded as complementary in many respects Despite the progress in structural computational and mechanistic studies however to date there is no universal recipe for the optimization of catalytic processes Thus a trial and error approach remains predominant in catalyst discovery and optimization With the aim of complementing the well established fields of homogeneous and enzymatic catalysis organocatalysis and artificial metalloenzymes have enjoyed a recent revival Artificial metalloenzymes which are the focus of this book result from combining an active but unselective organometallic moiety with a macromolecular host Kaiser and Whitesides suggested the possibility of creating artificial metallozymes as long ago as the late 1970s However there was a widespread belief that proteins and organometallic catalysts were incompatible with each other This

severely hampered research in this area at the interface between homogeneous and enzymatic catalysis. Since 2000 however there has been a growing interest in the field of artificial metalloenzymes for enantioselective catalysis. The current state of the art and the potential for future development are presented in five well balanced chapters. G Roelfes, B Feringa et al summarize research relying on DNA as a macromolecular host for enantioselective catalysis. *Conducting and Magnetic Organometallic Molecular Materials* Marc Fourmigué, Lahcène Ouahab, 2009-06-17. For several years the two parallel worlds of Molecular Conductors in one hand and Molecular Magnetism in the other have grown side by side: the former essentially based on radical organic molecules, the latter essentially based on the high spin properties of metal complexes. Over the last few years however organometallic derivatives have started to play an increasingly important role in both worlds and have in many ways contributed to open several passages between these two worlds. This volume recognizes this important emerging evolution of both research areas. It is not intended to give a comprehensive view of all possible organometallic materials and polymers; for example, we did not consider here. Rather we present a selection of the most recent research topics where organometallic derivatives were shown to play a crucial role in the setting of conducting and/or magnetic properties in crystalline materials. First, the role of organometallic anions in tetrafulvalene based molecular conductors is highlighted by Schlüter, while Kubo and Kato describe very recent ortho metalated chelating ligands appended to the TTF core and their conducting salts. The combination of conducting and magnetic properties and the search for p-d interactions are analyzed in two complementary contributions by Miyazaki and Ouahab, while Valade focuses on the only class of metal bis dithiolene complexes to give rise to superconductive molecular materials in association with organic as well as organometallic cations.

**Molecular Organometallic Materials for Optics** Hubert Bozec, Véronique Guerschais, 2009-10-26. S Di Bella, C Dragonetti, M Pizzotti, D Roberto, F Tessore, R Ugo. Coordination and Organometallic Complexes as Second Order Nonlinear Optical Molecular Materials. M G Humphrey, M P Cifuentes, M Samoc. NLO Molecules and Materials Based on Organometallics. Cubic NLO Properties. L Murphy, J A G Williams. Luminescent Platinum Compounds From Molecules to OLEDs. Z Liu, Z Bian, C Huang. Luminescent Iridium Complexes and Their Applications. N C Fletcher, M C Lagunas. Chromo and Fluorogenic Organometallic Sensors. V Guerschais, H Le Bozec. Metal Complexes Featuring Photochromic Ligands. Photophysics of Organometallics Alistair J. Lees, 2010-02-04. Arvind Kumar, Shih Sheng Sun and Alistair J Lees. Photophysics and Photochemistry of Organometallic Rhenium Diimine Complexes. Conor Long. Photophysics of CO Loss from Simple Metal Carbonyl Complexes. Antonín Vlček Jr. Ultrafast Excited State Processes in Re I Carbonyl Diimine Complexes From Excitation to Photochemistry. Kenneth Kam Wing Lo. Exploitation of Luminescent Organometallic Rhenium I and Iridium III Complexes in Biological Studies. Maria L Muro, Aaron A Rachford, Xianghui Wang and Felix N Castellano. Platinum II Acetylides. Photophysics. Andreas F Rausch, Herbert H Homeier and Hartmut Yersin. Organometallic Pt II and Ir III Triplet Emitters for OLED Applications and the Role of Spin Orbit Coupling. A Study Based on High Resolution Optical Spectroscopy.

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