



Chiral Diazaligands For Asymmetric Synthesis

Arkadi Vigalok, Paul Bichler



Chiral Diazaligands For Asymmetric Synthesis:

Chiral Diazaligands for Asymmetric Synthesis Marc Lemaire, Pierre Mangeney, 2005-10-11 The use of phosphine derivatives has historically induced the tremendous development of catalysis both non asymmetric and asymmetric Although the chemistry of amines is more documented the use of nitrogen containing ligands only appeared recently Nevertheless during the last ten years the results describing chiral diamine preparations and their uses in asymmetric catalysis and synthesis are increasing faster than their phosphorus counterparts The reader will find in this volume the most recent methods for the synthesis of chiral diamines as well as their applications in asymmetric catalysis of CC bond formation Particular attention will be given to spartein and derivatives of such diamines Recently the particular properties and the chemistry of amines allowed to obtain catalysts easy to separate and recycle and new types of ligands such as diaminocarbenes ureas and thioureas Finally the complexing properties of some diamines allowed the formation of complexes with chirality at the metal which is of major theoretical interest and presents numerous potential applications

Asymmetric Catalysis from a Chinese Perspective Shengming Ma, 2011-07-06 Qi Lin Zhou and Jian Hua Xie Chiral Spiro Catalysts Fuk Loi Lam Fuk Yee Kwong and Albert S C Chan Chiral Phosphorus Ligands with Interesting Properties and Practical Applications Jiang Pan Hui Lei Yu Jian He Xu Guo Qiang Lin Advances in Biocatalysis Enzymatic Reactions and Their Applications Mei Xiang Wang Enantioselective Biotransformations of Nitriles Man Kin Wong Yiu Chung Yip and Dan Yang Asymmetric Epoxidation Catalyzed by Chiral Ketones W J Liu N Li and L Z Gong Asymmetric Organocatalysis Qing Hua Fan and Kuiling Ding Enantioselective Catalysis with Structurally Tunable Immobilized Catalysts Chang Hua Ding Xue Long Hou Transition Metal Catalyzed Asymmetric Allylation Jian Zhou and Yong Tang Enantioselective Reactions with Trisoxazolines Xiang Ping Hu Duo Sheng Wang Chang Bin Yu Yong Gui Zhou and Zhuo Zheng Adventure in Asymmetric Hydrogenation Synthesis of Chiral Phosphorus Ligands and Asymmetric Hydrogenation of Heteroaromatics **Asymmetric**

Synthesis of Nitrogen Heterocycles Jacques Royer, 2009-08-04 Here all aspects of the topic are presented in a compact manner The book is clearly structured and divided into two sections asymmetric synthesis of heterocycles containing only one nitrogen and that of those with more than one nitrogen as a heteroatom such that the necessary information may be found at a glance The international team of authors provides important experimental procedures including industrial applications Essential for synthetic chemists in pharmaceutical and agrochemical chemistry **Organometallic Oxidation Catalysis** Franc Meyer, Christian Limberg, 2007-02-22 In many of the processes of oxidation catalysis 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 contributors is the use of organic ligands to achieve efficient oxidation catalysis Each volume of Topics in Organometallic Chemistry provides a comprehensive summary and critical overview of a specific topic in organometallic chemistry **Dendrimer Catalysis** Lutz H. Gade, Didier Astruc, 2006-08-18 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 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 Anton n Vlcek 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 Xianghuai Wang and Felix N Castellano Platinum II Acetylide Photophysics Andreas F Rausch Herbert H 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 **Conducting and Magnetic Organometallic Molecular**

Materials Marc Fourmigué, Lahcène Ouahab, 2009-07-21 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 were not considered 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 tet thiafulvalenium based molecular conductors is highlighted by Schlueter 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 Myazaki 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 *Iridium Catalysis* Pher G. Andersson, 2011-01-05 From the contents Robert H Crabtree Introduction and History Montserrat Di guez Oscar P mies and Carmen Claver Iridium catalysed hydrogenation using phosphorous ligands David H Woodmansee and Andreas Pfaltz Iridium Catalyzed Asymmetric Hydrogenation of Olefins with Chiral N P and C N Ligands Ourida Saidi and Jonathan M J Williams Iridium catalyzed Hydrogen Transfer Reactions John F Bower and Michael J Krische Formation of C C Bonds via Iridium Catalyzed Hydrogenation and Transfer Hydrogenation Jongwook Choi Alan S Goldman Ir Catalyzed Functionalization of C H Bonds Mark P Pouy and John F Hartwig Iridium Catalyzed Allylic Substitution Daniel Carmona and

Luis A Oro Iridium catalyzed 1,3 dipolar cycloadditions **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, ligand design for SFCs and ionic thermomorphic solvent systems, reactor design and more. *Transition Metal Complexes of Neutral Eta¹-Carbon Ligands* Remi Chauvin, Yves Canac, 2010

Iron Catalysis Bernd Plietker, 2011-01-03 Juan I Padro and Victor S Martin Catalysis by means of Fe based Lewis acids Hiroshi Nakazawa Masumi Itazaki Fe-H Complexes in Catalysis Kristin Schröder Kathrin Junge Bianca Bitterlich and Matthias Beller Fe catalyzed Oxidation Reactions of Olefins Alkanes and Alcohols Involvement of Oxo and Peroxo Complexes Chi Ming Che Cong Ying Zhou Ella Lai Ming Wong Catalysis by Fe-X Complexes X=NR, CR₂ Ren Peters Daniel F Fischer and Sascha Jautze Ferrocene and Half Sandwich Complexes as Catalysts with Iron Participation Markus Jegelka Bernd Plietker Catalysis by Means of Complex Ferrates

Directed Metallation Naoto Chatani, 2007-10-03 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. *Bifunctional Molecular Catalysis* Takao Ikariya, Masakatsu Shibasaki, 2011-06-26 Masakatsu Shibasaki Motomu Kanai Shigeki Matsunaga and Naoya Kumagai Multimetallic

Multifunctional Catalysts for Asymmetric Reactions Takao Ikariya Bifunctional transition metal based molecular catalysts for asymmetric syntheses Chidambaram Gunanathan and David Milstein Bond Activation by Metal-Ligand Cooperation Design of Green Catalytic Reactions Based on Aromatization Dearomatization of Pincer Complexes Madeleine C Warner Charles P Casey and Jan E Bäckvall Shvo's Catalyst in Hydrogen Transfer Reactions Noritaka Mizuno Keigo Kamata and Kazuya Yamaguchi Liquid Phase Selective Oxidation by Multimetallic Active Sites of Polyoxometalate Based Molecular Catalysts Pingfan Li and Hisashi Yamamoto Bifunctional Acid Catalysts for Organic Synthesis Jun-ichi Ito Hisao Nishiyama Bifunctional Phebox Complexes for Asymmetric Catalysis 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. **Surface and Interfacial**

Organometallic Chemistry and Catalysis C. Copéret, Bruno Chaudret, 2005-11-03 With contributions by numerous experts

Palladium in Organic Synthesis Jiro Tsuji, 2005-07-06 with contributions by numerous experts **Higher Oxidation**

State Organopalladium and Platinum Chemistry Allan J. Canty, 2011-02-25 Kyle A Grice Margaret L Scheuermann and Karen I Goldberg Five Coordinate Platinum IV Complexes Jay A Labinger and John E Bercaw The Role of Higher Oxidation State Species in Platinum Mediated C H Bond Activation and Functionalization Joy M Racowski and Melanie S Sanford Carbon Heteroatom Bond Forming Reductive Elimination from Palladium IV Complexes Helena C Malinakova Palladium IV Complexes as Intermediates in Catalytic and Stoichiometric Cascade Sequences Providing Complex Carbocycles and Heterocycles Allan J Canty and Manab Sharma h1 Alkynyl Chemistry for the Higher Oxidation States of Palladium and Platinum David C Powers and Tobias Ritter Palladium III in Synthesis and Catalysis Marc Etienne Moret Organometallic Platinum II and Palladium II Complexes as Donor Ligands for Lewis Acidic d10 and s2 Centers *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

Bio-inspired Catalysts Thomas R. Ward, 2009-02-05 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

C-X Bond Formation Arkadi Vigalok, Paul Bichler, 2010-07-09 Contents Kilian Müller Transition Metal Catalyzed Electrophilic Halogenation of C H bonds in α Position to Carbonyl Groups Arkadi Vigalok and Ariela W Kaspi Late Transition Metal Mediated Formation of Carbon Halogen Bonds Paul Bichler and Jennifer A Love

Organometallic Approaches to Carbon Sulfur Bond Formation David S Glueck Recent Advances in Metal Catalyzed C P Bond Formation Andrei N Vedernikov C O Reductive Elimination from High Valent Pt and Pd Centers Lukas Hintermann Recent Developments in Metal Catalyzed Additions of Oxygen Nucleophiles to Alkenes and Alkynes Moris S Eisen Catalytic C N C O and C S bond formation promoted by organoactinide complexes

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