

TOPICS IN
ORGANOMETALLIC CHEMISTRY

15

Volume Editors M. Lemaire · P. Mangeney

Chiral Diazaligands for Asymmetric Synthesis

 Springer

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Chiral Diazaligands For Asymmetric Synthesis

Joyce A. Cascio



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

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

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 exoreceptors for the redox recognition of oxo anions and halides

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 IIs thermomorphic solvent systems reactor design and more

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

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

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 **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 *Bioorganometallic Chemistry* G.

Simonneaux,2006-05-23 Bioorganometallic Chemistry has become a mature area of science and is comprehensively covered by leading experts in this book 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 This book provides a balanced view of this rapidly developing and promising subject Joyce in the Belly of the Big Truck;

Workbook Joyce A. Cascio,2005-05 **Deutsche Nationalbibliographie und Bibliographie der im Ausland**

erschienenen deutschsprachigen Veröffentlichungen ,2006 Chiral Building Blocks in Asymmetric Synthesis Elzbieta Wojaczynska,Jacek Wojaczynski,2022-08-08 Chiral Building Blocks in Asymmetric Synthesis A comprehensive introduction to the important classes of chiral building blocks Chirality the asymmetric quality found in certain chemical compounds plays an essential role in our world chiral compounds can be found in biology pharmaceutical compounds agrochemicals and fragrances The stereoselective preparation of these complex molecular constructions constitutes a challenge To this end modern asymmetric synthesis utilizes a variety of valuable and efficient reagents employed as chiral auxiliaries metal

complexes and organocatalysts in stereoselective catalysis and enantiopure reactants termed as chiral building blocks In Chiral Building Blocks in Asymmetric Synthesis the achievements in the fields of preparation of and applications of chiral blocks are presented In doing so the book comprehensively discusses the important classes of these reactants as the key for the asymmetric synthesis of chiral molecules As such it is an indispensable resource about synthetic methods as well as possible modifications and transformations of important classes of chiral compounds It also highlights the importance of their use as reactants and auxiliaries in the preparation of more sophisticated molecules or supramolecular systems In Chiral Building Blocks in Asymmetric Synthesis readers will also find Organization according to the most important compound classes e g amino acids BINOL and its derivatives terpenes and others with an emphasis on synthesis and application A focus on the use of chiral building blocks for the preparation of bioactive compounds and supramolecular assemblies Chiral Building Blocks in Asymmetric Synthesis is a useful reference for organic chemists catalytic chemists chemists in industry medicinal chemists pharmaceutical chemists and the libraries that support them *Handbook of Reagents for Organic Synthesis: Chiral reagents for asymmetric synthesis* Leo A. Paquette, 2003

Axially Chiral Compounds Bin Tan, 2021-11-22 Axially Chiral Compounds Explore this comprehensive and current volume summarizing the characteristics synthesis and applications of axial chirality Appearing widely in natural products biologically active molecules asymmetric chemistry and material science axially chiral motifs constitute the core backbones of the majority of chiral ligands and organocatalysts in asymmetric catalysis In a new work of particular relevance to synthetic chemists Axially Chiral Compounds Asymmetric Synthesis and Applications delivers a clearly structured and authoritative volume covering the classification characteristics synthesis and applications of axial chirality A must read for every synthetic chemist practicing today the book follows the development history research status and applications of axial chirality An introductory chapter familiarizes the reader with foundational material before the distinguished authors describe the different classes and the synthesis of axial chiral compounds used in asymmetric synthesis The book concludes with a focus on the applications of chiral ligands chiral catalysts and materials Readers will also benefit from the inclusion of A thorough introduction to asymmetric synthesis including biaryls atropisomers heterobiaryls atropisomers and non biaryls atropisomers Explorations of chiral allene spiro skeletons and natural products Practical discussions of asymmetric transformation chiral ligands and chiral catalysts An examination of miscellaneous applications of axially chiral compounds Perfect for organic chemists chemists working with or on organometallics catalytic chemists and materials scientists Axially Chiral Compounds Asymmetric Synthesis and Applications will also earn a place in the libraries of natural products chemists who seek a one stop reference for compounds exhibiting axial chirality *Handbook of Chiral Chemicals* David Ager, 2005-10-21 As pharmaceutical companies look to develop single enantiomers as drug candidates chemists are increasingly faced with the problems associated with this subclass of organic synthesis The Handbook of Chiral Chemicals Second Edition highlights the

problems associated with the production of chiral compounds on a commercial scale The handbook first elaborates upon starting materials obtained from a chiral pool which can be derived from natural products Then it explains methods and reactions that can introduce or influence stereogenic centers particularly asymmetric hydrogenations oxidations pericyclic reactions and enzymatic methods While hydrogenations have been the most widely employed approach for the large scale synthesis of several commercial compounds the search for the ideal catalyst has consistently led researchers to enzymes present in biological systems Several chapters concentrate on understanding how to manipulate enzymes for catalyzing new reactions for taking new substrates Other significant topics include chiral auxiliaries chromatographic techniques enantiomers specific reactions and resolution This second edition updates all its chapters illustrating the speed of development in this field and features new chapters that highlight successful

approaches in an industrial setting The Handbook of Chiral Chemicals Second Edition is a guide to advances in the field that result in more efficient and cost effective synthesis of chiral chemicals

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Chiral Diazaligands For Asymmetric Synthesis Introduction

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