

Modern Organometal Chemistry



Modern Organonickel Chemistry

Markus Heinrich, Andreas Gansäuer

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the authors' names.

Modern Organonickel Chemistry:

Modern Organonickel Chemistry Yoshinao Tamaru, 2006-03-06 Organonickel chemistry plays an increasingly important role in organic chemistry and interest in this topic is now just as keen as in organopalladium chemistry. While there are numerous very successful books on the latter, a book specializing in organonickel chemistry is long overdue. Edited by one of the leading experts in the field, this volume covers the many discoveries made over the past 30 years and previously scattered throughout the literature. Active researchers working at the forefront of organonickel chemistry provide a comprehensive review of the topic, including cross coupling reactions, asymmetric synthesis, and heterogeneous catalysis reaction types. A must have for both organometallic chemists and synthetic organic chemists. *Modern Phosphonate Chemistry* Philippe Savignac, Bogdan Iorga, 2003-04-28 A century after their discovery, phosphonates have become important compounds recognized both for their use as efficient reagents in organic synthesis and for their biological and industrial importance. This unique up to date reference presents a concise summary of the state of the art in phosphonate chemistry, covering the role of phosphonates in **Metal Catalyzed Cross-Coupling Reactions and More**. Armin de Meijere, Stefan Bräse, Martin Oestreich, 2013-12-04 This three volume book is the follow up handbook to the bestselling volume *Metal Catalyzed Cross Coupling Reactions*, the definitive reference in the field. In line with the enormous developments in this area, this is not a new edition but rather a new book in three volumes with over 50% more content. This new content includes C-H activation, shifting the focus away from typical cross coupling reactions, while those topics and chapters found in de Meijere and Diederich's book have been updated and expanded. With its highly experienced editor team and the list of authors reading like an international Who's Who in the field, this work will be of great interest to every synthetic chemist working in academia and industry. Enantioselective Nickel-catalysed Transformations Hélène Pellissier, 2016-03-21 Due to the lower costs of nickel catalysts and the high abundance of nickel complexes, enantioselective nickel mediated transformations have received a continuous and growing attention in recent years. This book demonstrates the diversity of chemistry catalysed by chiral nickel catalysts. Discussing several different enantioselective transformations, this book presents the impressive range of uses that have been found for novel and already known nickel chiral catalysts, from basic organic transformations to completely novel methodologies including fascinating one pot domino and multicomponent reactions. This much needed book is ideal for researchers and industrialists in organic chemistry synthesis and medicinal chemistry. Asymmetric Metal Catalysis in Enantioselective Domino Reactions Helene Pellissier, 2019-11-11 Introduces an innovative and outstanding tool for the easy synthesis of complex chiral structures in a single step. Covering all of the literature since the beginning of 2006, this must have book for chemists collects the major progress in the field of enantioselective one two and multicomponent domino reactions promoted by chiral metal catalysts. It clearly illustrates how enantioselective metal catalyzed processes constitute outstanding tools for the development of a wide variety of fascinating one pot asymmetric domino reactions, thereby allowing

many complex products to be easily generated from simple materials in one step The book also strictly follows the definition of domino reactions by Tietze as single two as well as multicomponent transformations Asymmetric Metal Catalysis in Enantioselective Domino Reactions is divided into twelve chapters dealing with enantioselective copper palladium rhodium scandium silver nickel gold magnesium cobalt zinc yttrium and ytterbium and other metal catalyzed domino reactions Most of the chapters are divided into two parts dealing successively with one and two component domino reactions and three component processes Each part is subdivided according to the nature of domino reactions Each chapter of the book includes selected applications of synthetic methodologies to prepare natural and biologically active products Presents the novel combination of asymmetric metal catalysis with the concept of fascinating domino reactions which allows high molecular complexity with a remarkable level of enantioselectivity Showcases an incredible tool synthesizing complex and diverse chiral structures in a single reaction step Includes applications in total synthesis of natural products and biologically active compounds Written by a renowned international specialist in the field Stimulates the design of novel asymmetric domino reactions and their use in the synthesis of natural products pharmaceuticals agrochemicals and materials Asymmetric Metal Catalysis in Enantioselective Domino Reactions will be of high interest to synthetic organic medicinal and catalytic chemists in academia and R D departments

Radicals in Synthesis III Markus Heinrich, Andreas Gansäuer, 2012-02-22 Boron Doped Diamond Electrodes for Electroorganic Chemistry by Siegfried R Waldvogel Stamo Mentizi und Axel Kirste Modern Developments in Aryl Radical Chemistry by Gerald Pratsch und Markus R Heinrich Radical Additions to Chiral Hydrazones Stereoselectivity and Functional Group Compatibility by Gregory K Friestad Hydrogen Atom Donors Recent Developments by Andreas Gans uer Lei Shi Matthias Otte Inga Huth Antonio Rosales Iris Sancho Sanz Natalia M Padial und J Enrique Oltra Radicals in Transition Metal Catalyzed Reactions Transition Metal Catalyzed Radical Reactions A Fruitful Interplay Anyway Part 1 Radical Catalysis by Group 4 to Group 7 Elements by Ullrich Jahn Radicals in Transition Metal Catalyzed Reactions Transition Metal Catalyzed Radical Reactions A Fruitful Interplay Anyway Part 2 Radical Catalysis by Group 8 and 9 Elements by Ullrich Jahn Radicals in Transition Metal Catalyzed Reactions Transition Metal Catalyzed Radical Reactions A Fruitful Interplay Anyway Part 3 Catalysis by Group 10 and 11 Elements and Bimetallic Catalysis by Ullrich Jahn

Organometallic Chemistry in Industry Thomas J. Colacot, Carin C.C. Johansson Seechurn, 2020-02-11 Showcases the important role of organometallic chemistry in industrial applications and includes practical examples and case studies This comprehensive book takes a practical approach to how organometallic chemistry is being used in industrial applications It uniquely offers numerous real world examples and case studies that aid working R continuous manufacturing as an enabling technology for low temperature organometallic chemistry the development of a nickel catalyzed enantioselective Mizoroki Heck coupling and the development of iron catalyzed Kumada cross coupling for the large scale production of Aliskiren intermediates The book also examines aspects of homogeneous hydrogenation from industrial research the latest industrial

uses of olefin metathesis and more Includes rare industrial case studies difficult to find in current literature Helps readers successfully carry out their own reactions Covers topics like flow chemistry cross coupling reactions and dehydrative decarbonylation Features a foreword by Nobel Laureate R H Grubbs A perfect resource for every R D researcher in industry Useful for PhD students and postdocs excellent preparation for a job interview Organometallic Chemistry in Industry A Practical Approach is an excellent resource for all chemists including those working in the pharmaceutical industry and organometallics

Advances in Organometallic Chemistry, 2024-05-23 Advances in Organometallic Chemistry Volume 81 in this ongoing series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Specific chapters cover Recent Advances in the Catalytic Applications of NHC Early Abundant Metals Fe Mn Co Complexes A Guide to Non Carbonyl Non Isocyano Organometallic Chemistry of Technetium 99 from Discovery to 2023 and Cyclopentadienyl Amidinate CPAM Complexes of Groups 4 6 Transition Metals Provides the latest information on cancer research Offers outstanding and original reviews on a range of cancer research topics Serves as an indispensable reference for researchers and students alike

Nickel Catalysis in Organic Synthesis Sensuke Ogoshi, 2020-03-09 A comprehensive reference to nickel chemistry for every scientist working with organometallic catalysts Written by one of the world's leading researchers in the field Nickel Catalysis in Organic Synthesis presents a comprehensive review of the high potential of modern nickel catalysis and its application in synthesis Structured in a clear and assessable manner the book offers a collection of various reaction types such as cross coupling reactions reactions for the activation of unreactive bonds carbon dioxide fixation and many more Nickel has been recognized as one of the most interesting transition metals for homogeneous catalysis This book offers an overview to the recently developed new ligands new reaction conditions and new apparatus to control the reactivity of nickel catalysts allowing scientists to apply nickel catalysts to a variety of bond forming reactions A must read for anyone working with organometallic compounds and their application in organic synthesis this important guide Reviews the numerous applications of nickel catalysis in synthesis Explores the use of nickel as a relatively cheap and earth abundant metal Examines the versatility of nickel catalysis in reactions like cross coupling reactions and CH activations Offers a resource for academics and industry professionals Written for catalytic chemists organic chemists inorganic chemists structural chemists and chemists in industry Nickel Catalysis in Organic Synthesis provides a much needed overview of the most recent developments in modern nickel catalysis and its application in synthesis

Applied Homogeneous Catalysis with Organometallic Compounds Boy Cornils, Wolfgang A. Herrmann, Matthias Beller, Rocco Paciello, 2017-09-05 The completely revised third edition of this four volume classic is fully updated and now includes such topics as CH activation and multicomponent reactions It describes the most important reaction types new methods and recent developments in catalysis The internationally renowned editors and a plethora of international authors including Nobel laureate R Noyori guarantee high quality content throughout the book A must read for

everyone in academia and industry working in this field

Organometallics in Synthesis Bruce H. Lipshutz, 2013-12-02
Provides detailed procedures and useful hints on organometallic reactions of Cu Rh Ni and Au With contributions from leading organic chemists who specialize in the use of organometallics in organic synthesis this acclaimed Manual offers an especially valuable resource for all synthetic chemists providing a practical reference for conducting transition metal mediated synthetic reactions This Fourth Manual is divided into four chapters Chapter I Organocopper Chemistry Chapter II Organorhodium Chemistry Chapter III Organonickel Chemistry Chapter IV Organogold Chemistry Each of these newly written chapters features detailed practical examples from the literature that guide readers through the preparation of organometallic reagents and their applications in organic synthesis Procedures are presented in the Manual s acclaimed step by step recipe format enabling both novices and experienced synthetic chemists to perform all the reactions with ease In addition the Manual features Extensive background information on the organometallic chemistry of Cu Rh Ni and Au References to the primary literature facilitating further investigation of all the reactions covered in the Manual Mechanistic considerations to help readers better understand how the desired products are formed Future research opportunities for each organometallic class Organometallics in Synthesis provides extensive and detailed information enabling synthetic chemists to readily assess the applicability of a synthetic method to a given need and then to perform the reaction with confidence The Manual covers both established organometallic procedures along with the most recently published protocols Industrial processes are increasingly relying on organometallic chemistry In this Manual readers will find applications to such fields as natural products total synthesis pharmaceuticals fine chemicals biotechnology agricultural science polymers and materials science

Carbon Monoxide in Organic Synthesis Bartolo Gabriele, 2021-09-30 Carbon Monoxide in Organic Synthesis A thoroughly up to date overview of carbonylation reactions in the presence of carbon monoxide In Carbon Monoxide in Organic Synthesis Carbonylation Chemistry expert researcher and chemist Bartolo Gabriele delivers a robust summary of the most central advances in the field of carbonylation reactions in the presence of carbon monoxide Beginning with a brief introduction on the importance of carbon monoxide as a building block in modern organic synthesis the author goes on to describe metal catalyzed carbonylations utilizing iron cobalt nickel copper and manganese Descriptions of palladium ruthenium and rhodium catalyzed reactions follow as do discussions of metal free carbonylation processes The book is organized by metal to make the book useful as a guide for researchers from both academia and industry whose work touches on the direct synthesis of carbonyl compounds carboxylic acid derivatives and heterocycles It aims to stimulate further discoveries in this rapidly developing field Readers will also enjoy A thorough introduction to carbonylations promoted by first row transition metal catalysts including cobalt catalyzed and nickel catalyzed carbonylations An exploration of carbonylations promoted by second row transition metal catalysts including ruthenium rhodium palladium 0 and palladium II catalyzed carbonylations Practical discussions of miscellaneous carbonylation reactions including carbonylations promoted

by third row transition metal catalysts and metal free carbonylation processes Perfect for catalytic and organic chemists Carbon Monoxide in Organic Synthesis Carbonylation Chemistry is also an indispensable resource for chemists working with organometallics and industrial chemists seeking a summary of important processes used to synthesize value added products

Transition-Metal-Mediated Aromatic Ring Construction Ken Tanaka, 2013-07-09 State of the science methods synthetic routes and strategies to construct aromatic rings The development of new reactions for the synthesis of aromatic compounds is a highly active research area in organic synthesis providing new functional organic materials functional reagents and biologically active compounds Recently significant advances in transition metal mediated reactions have enabled the efficient and practical construction of new aromatic rings with useful properties and applications This book draws together and reviews all the latest discoveries and methods in transition metal mediated reactions offering readers promising new routes to design and construct complex aromatic compounds Integrating metal catalysis with aromatic compound synthesis Transition Metal Mediated Aromatic Ring Construction offers a practical guide to the methods synthetic routes and strategies for constructing aromatic compounds The book's five parts examine 2,2,2,2,1 and related cycloaddition reactions 4,2,3,2 and related cycloaddition reactions Electrocyclization reactions Coupling and addition reactions Other important transformations including methathesis reactions and skeletal rearrangement reactions Edited by Ken Tanaka an internationally recognized expert in the field of transition metal catalysis the book features authors who are leading pioneers and researchers in synthetic reactions Their contributions reflect a thorough review and analysis of the literature as well as their own firsthand laboratory experience developing new aromatic compounds All chapters end with a summary and outlook setting forth new avenues of research and forecasting new discoveries There are also references at the end of each chapter guiding readers to important original research reports and reviews In summary Transition Metal Mediated Aromatic Ring Construction offers synthetic chemists a promising new avenue for the development of important new aromatic compounds with a broad range of applications

Chemical Transformations of Carbon Dioxide Xiao-Feng Wu, Matthias Beller, 2018-07-10 The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also

offer an outlook on potential future developments in the field

Comprehensive Organic Synthesis, 2014-02-14 The second edition of *Comprehensive Organic Synthesis* winner of the 2015 PROSE Award for Multivolume Reference Science from the Association of American Publishers builds upon the highly respected first edition in drawing together the new common themes that underlie the many disparate areas of organic chemistry These themes support effective and efficient synthetic strategies thus providing a comprehensive overview of this important discipline Fully revised and updated this new set forms an essential reference work for all those seeking information on the solution of synthetic problems whether they are experienced practitioners or chemists whose major interests lie outside organic synthesis In addition synthetic chemists requiring the essential facts in new areas as well as students completely new to the field will find *Comprehensive Organic Synthesis Second Edition Nine Volume Set* an invaluable source providing an authoritative overview of core concepts Winner of the 2015 PROSE Award for Multivolume Reference Science from the Association of American Publishers Contains more than 170 articles across nine volumes including detailed analysis of core topics such as bonds oxidation and reduction Includes more than 10 000 schemes and images Fully revised and updated important growth areas including combinatorial chemistry new technological industrial and green chemistry developments are covered extensively

Transition Metal Catalyzed Enantioselective Allylic Substitution in Organic Synthesis Uli Kazmaier, 2011-10-28 Giovanni Poli Guillaume Prestat Frédéric Liron Claire Kammerer Pentier Selectivity in Palladium Catalyzed Allylic Substitution Jonatan Kleimark and Per Ola Norrby Computational Insights into Palladium mediated Allylic Substitution Reactions Ludovic Milhau Patrick J Guiry Palladium catalyzed enantioselective allylic substitution Wen Bo Liu Ji Bao Xia Shu Li You Iridium Catalyzed Asymmetric Allylic Substitutions Christina Moberg Molybdenum and Tungsten Catalyzed Enantioselective Allylic Substitutions Jean Baptiste Langlois Alexandre Alexakis Copper catalyzed enantioselective allylic substitution Jeanne Marie Begouin Johannes E M N Klein Daniel Weickmann B Plietker Allylic Substitutions Catalyzed by Miscellaneous Metals Barry M Trost Matthew L Crawley Enantioselective Allylic Substitutions in Natural Product Synthesis

Name Reactions for Homologation, Part 1 Jie Jack Li, 2009-05-04 A valuable addition to the literature by any measure and surely will prove its merit in years to come The new knowledge that arises with its help will be impressive and of great benefit to humankind From the Foreword by E J Corey Nobel Prize Laureate An invaluable guide to name reactions and reagents for homologations *Name Reactions for Homologations Part I* of Wiley's *Comprehensive Name Reactions* series comprises a comprehensive treatise on name reactions for homologations With contributions from world recognized authorities in the field this reference offers an up to date concise compilation of the most commonly used and widely known name reactions and reagents Part I discusses Organometallics Carbon chain Homologation and Radical Chemistry Arranged alphabetically by name reactions the listing provides Description of the reaction Historical perspective A mechanism for the reaction Variations and improvements on the reaction Synthetic utilities of the reaction Experimental details References to the current primary literature Armed with this

invaluable resource both students and professionals will have at their fingertips a comprehensive guide to important mechanisms and phenomena in homologation

Homogeneous Hydrogenation with Non-Precious Catalysts Johannes F. Teichert, 2020-02-03 A guide and comprehensive review of the most recent advances in homogeneous hydrogenation with non precious catalysts In recent years a great deal of research has been applied to homogeneous hydrogenation with non precious catalysts Homogeneous Hydrogenation with Non Precious Catalysts offers a review of the latest developments and advances in the field In addition the book explores the transition metal catalysis and the concept of frustrated lewis pair FLP and enzymatic processes The editor a noted expert on the topic discusses the various catalysts and puts the focus on the synthetic vantage point highlighting the functional group transformation enabled by the respective catalyst Homogeneous Hydrogenation with Non Precious Catalysts also presents the industrial view of the topic and includes an overview of the various catalysts by functional group transformations This important book Offers a comprehensive presentation of the newest development in this emerging field Highlights the transition metal catalysis the frustrated lewis pair FLP concept and enzymatic processes Provides an industrial perspective of the topic Includes an overview of the various catalysis by functional group transformations Written for organic chemists researchers in synthetic chemistry and industry professionals Homogeneous Hydrogenation with Non Precious Catalysts offers a comprehensive and accessible guide to the most recent advances in the field

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C-C Cross Couplings with 3d Base Metal Catalysts Xiao-Feng Wu, 2023-06-13 This volume presents recent progress on 3d base metal catalyzed C C cross coupling reactions The contributions provide detailed discussions on the use of cheap metal catalysts such as Cr Mn Fe Co Ni Cu and Zn to construct Csp² Csp² Csp² Csp³ and Csp³ Csp³ bonds with a variety of substrates These non noble metal catalyst have many advantages such as being inexpensive having low toxicity and are environmentally benign Therefore the use of cheap metal catalysts in organic synthesis has gained much attention in efforts to develop more sustainable synthetic green chemistry Each chapter is written by international experts in the field and is a great resource for students researchers and chemists working in industry to gain an overview on the latest developments

N-Heterocyclic Carbenes Silvia Diez-Gonzalez, 2016-11-08 In less than 20 years N heterocyclic carbenes NHCs have become well established ancillary ligands for the preparation of transition metal based catalysts This is mainly due to the fact that NHCs tend to bind strongly to metal centres avoiding the need of excess ligand in catalytic reactions Also NHC metal complexes are often insensitive to air and moisture and have proven remarkably resistant to oxidation This book showcases the wide variety of applications of NHCs in different chemistry fields beyond being simple phosphine mimics This second edition has been updated throughout and now includes a new chapter on NHC main group element complexes It covers the synthesis of NHC ligands and their corresponding metal complexes as well as their bonding and stereoelectronic properties and applications in catalysis This is complemented by related topics such as organocatalysis and biologically active complexes Written for organic and inorganic chemists this book is ideal for postgraduates researchers

and industrialists

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Modern Organonickel Chemistry Introduction

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