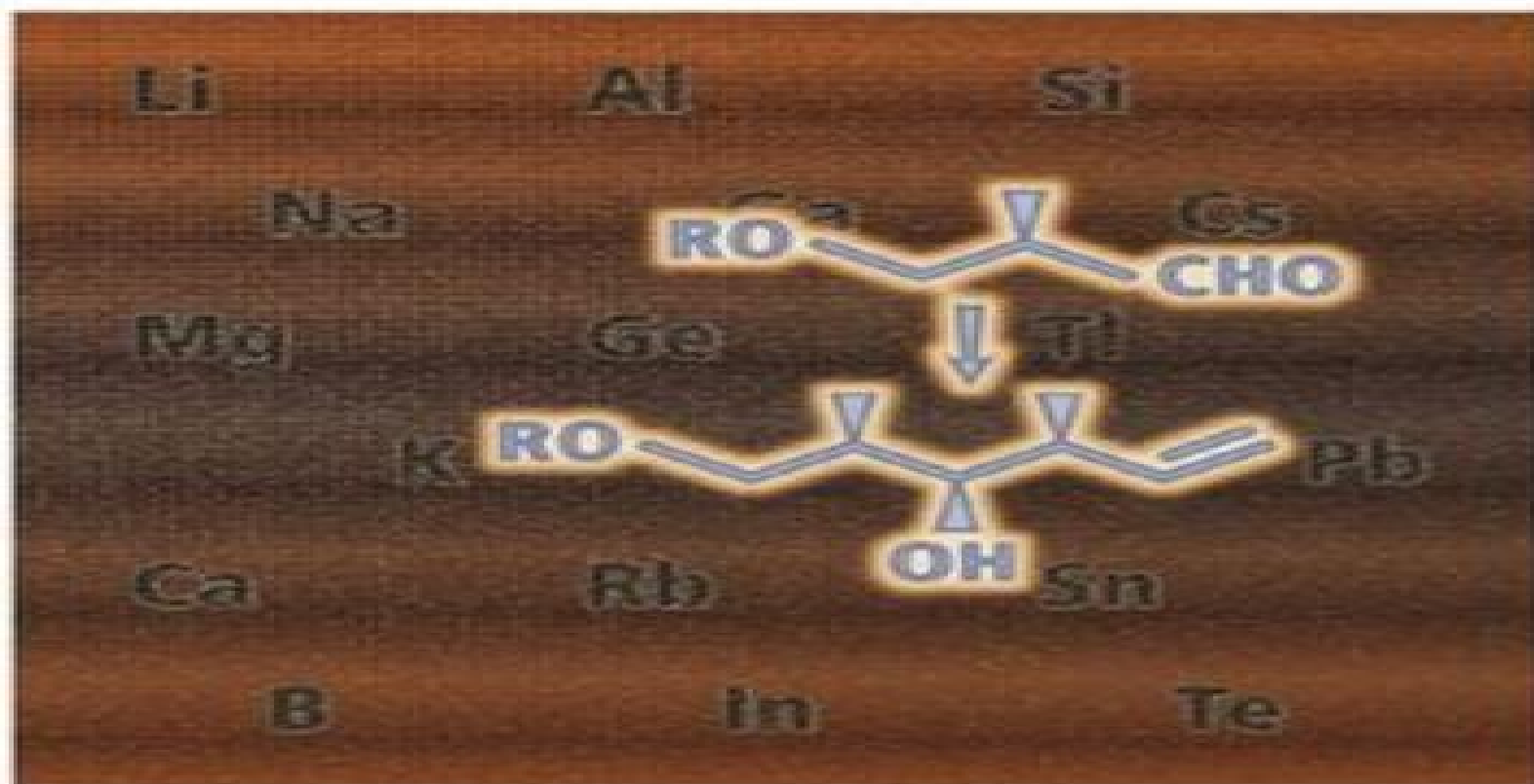


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Main Group Metals in Organic Synthesis



Main Group Metals In Organic Synthesis

Sjoerd Harder



Main Group Metals In Organic Synthesis:

Main Group Metals in Organic Synthesis Hisashi Yamamoto, Koichiro Oshima, 2006-03-06 This is the first handbook to cover in detail all aspects of this fascinating field of chemistry In this handy two volume set readers will instantly find the information they need clearly structured according to the individual metals in the main groups hitherto only accessible after much time consuming research The result is an indispensable aid for everyday work in the lab Alongside all the classical organic reactions this book focuses on the modern variations as well as novel current reactions in organic synthesis that are closely linked to main group elements both stoichiometric and catalytic With this work the two prizewinning editors have succeeded in producing a comprehensive compendium of the main group metals as reagents for organic reactions In short this is a must for every organic chemist whether as an efficient introduction to current research for retaining an overview or for looking up detailed information

Main-Group Metal Organometallics in Organic Synthesis A. McKillop, 2004-09-16 The individual chapters in this volume cover the scope and impact of main group organometallic compounds and reagents on organic synthesis during the last ten to fifteen years In a number of chapters topics are dealt with in detail that either were not covered at all in COMC eg selenium tellurium or were given scant attention eg oxymercuration organoantimony compounds Certain topics like directed metallation and LiKOR bases have only achieved prominence in synthesis in the last ten years and are now reviewed by leading experts

Transition Metals in the Synthesis of Complex Organic Molecules Louis S. Hegedus, 1999 This second edition offers easy access to the field of organotransition metal chemistry The book covers the basics of transition metal chemistry giving a practical introduction to organotransition reaction mechanisms

The Chemistry of Organolithium Compounds Basil John Wakefield, 1974 Organometallics in Organic Synthesis Ei-ichi Negishi, 1980-04-25 Bridges the gap between the typical organic and organometallic texts by providing a current overall description of the chemistry of organometallics in organic synthesis in a digested form Offers a highly systematic and logical account of virtually all the important aspects of the use of organometallics in organic synthesis Primarily treats the reactant product relationship as well as some tentative but reasonable interpretations provided by the authors of individual papers and the author of this book Over 1 200 references are cited along with the great majority of relevant reviews and monographs

Chemistry of the Main Group Elements Andrew Barron, 2020-03-28 The main group elements represent the most prevalent elements in the Earth's crust as well as most of the key elements of life and have enormous industrial economic and environmental importance In this regard an understanding of the chemistry of the main group elements is vital for students within science engineering and medicine however it is hoped that those who make political and economic decisions would make better ones or at least more responsible ones if they had a fraction of the knowledge of the world around them

Transition Metal Arene π -Complexes in Organic Synthesis and Catalysis Peter E. Kündig, 2004-09-03 Metal arene π 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

Polar Organometallic Reagents

Andrew E. H. Wheatley, Masanobu Uchiyama, 2022-03-03 Outlines recent advances in the field of polar organometallic chemistry particularly in the context of the emergent areas of synergic and cooperative species Polar Organometallic Reagents provides a critical overview of developments in the field of modern polar organometallic chemistry With a particular focus on the emergent area of synergic heterometallic reagents this timely volume describes our attempts to understand recently developed polar organometallics and their application in a range of new directions Contributions from leading researchers present new synthetic work and discuss recent advances in characterization techniques synthetic applications and mechanistic understanding of heterometallic complexes In depth chapters provide detailed information on fundamental structural and theoretical aspects of polar organometallic chemistry while articulating the need and rationale for the advent of new reagents Topics include alkali and alkaline earth organometallics synergy and cooperativity cationic p block clusters and other developments in main group catalysis synthetic trends in alkenyl copper ate complex and borylmetal chemistry non traditional reaction environments and trends in developing greener processes Designed to keep readers updated with the latest progress in the field this much needed book Includes an introductory chapter outlining the development of synergic bases and the logic behind their creation Highlights the role of solid state structural work in elucidating the bonding and reactivity displayed by modern polar organometallics Examines the use of calculations in catalyst design and plotting more sustainable reaction pathways Discusses modern trends in solution techniques that have achieved new insights into the structures of active species Presents striking advances in the ease of handling of polar organometallics and the emergence of main group catalysis Polar Organometallic Reagents is essential reading for researchers in chemical disciplines including synthetic inorganic and coordination chemistry main group chemistry organometallic chemistry organic synthesis and catalysis

Pincer Compounds David Morales-Morales, 2018-04-11 *Pincer Compounds Chemistry and Applications* offers valuable state of the art coverage highlighting highly active areas of research from mechanistic work to synthesis and characterization The book focuses on small molecule activation chemistry

particularly H₂ and hydrogenation earth abundant metals such as Fe actinides carbene pincers chiral catalysis and alternative solvent usage The book covers the current state of the field featuring chapters from renowned contributors covering four continents and ranging from still active pioneers to new names emerging as creative strong contributors to this fascinating and promising area Over a decade since the publication of Morales Morales and Jensen s The Chemistry of Pincer Compounds Elsevier 2007 research in this unique area has flourished finding a plethora of applications in almost every single branch of chemistry from their traditional application as very robust and active catalysts all the way to potential biological and pharmaceutical applications Describes the chemistry and applications of this important class of organometallic and coordination compounds Includes contributions from global leaders in the field featuring pioneers in the area as well as emerging experts conducting exciting research on pincer complexes Highlights areas of promising and active research including small molecule activation earth abundant metals and actinide chemistry

Main Group Metal Coordination

Polymers Ali Morsali, Lida Hashemi, 2017-02-03 Coordination polymer is a general term used to indicate an infinite array composed of metal ions which are bridged by certain ligands among them This incorporates a wide range of architectures including simple one dimensional chains with small ligands to large mesoporous frameworks Generally the formation process proceeds automatically and therefore is called a self assembly process In general the type and topology of the product generated from the self assembly of inorganic metal nodes and organic spacers depend on the functionality of the ligand and valences and the geometric needs of the metal ions used In this book the authors explain main group metal coordination polymer in bulk and nano size with some of their application synthesis method and etc The properties of these efficient materials are described at length including magnetism long range ordering spin crossover porosity gas storage ion and guest exchange non linear optical activity chiral networks reactive networks heterogeneous catalysis luminescence multifunctional materials and other properties

The Group 13 Metals Aluminium, Gallium, Indium and Thallium

Simon Aldridge, Anthony J. Downs, 2011-04-11 The last two decades have seen a renaissance in interest in the chemistry of the main group elements In particular research on the metals of group 13 aluminium gallium indium and thallium has led to the synthesis and isolation of some very novel and unusual molecules with implications for organometallic synthesis new materials development and with biological medical and environmental relevance The Group 13 Metals Aluminium Gallium Indium and Thallium aims to cover new facts developments and applications in the context of more general patterns of physical and chemical behaviour Particular attention is paid to the main growth areas including the chemistry of lower formal oxidation states cluster chemistry the investigation of solid oxides and hydroxides advances in the formation of III V and related compounds the biological significance of Group 13 metal complexes and the growing importance of the metals and their compounds in the mediation of organic reactions Chapters cover general features of the group 13 elements group 13 metals in the 3 oxidation state simple inorganic compounds formal oxidation state 3 organometallic chemistry formal

oxidation state 2 metal metal bonded vs mononuclear derivatives group 13 metals in the 1 oxidation state mixed or intermediate valence group 13 metal compounds aluminium and gallium clusters metalloid clusters and their relation to the bulk phases to naked clusters and to nanoscaled materials simple and mixed metal oxides and hydroxides solids with extended structures of different dimensionalities and porosities coordination and solution chemistry of the metals biological medical and environmental relevance III V and related semiconductor materials group 13 metal mediated organic reactions The Group 13 Metals Aluminium Gallium Indium and Thallium provides a detailed wide ranging and up to date review of the chemistry of this important group of metals It will find a place on the bookshelves of practitioners researchers and students working in inorganic organometallic and materials chemistry

Organometallic Chemistry E. W. Abel, F. G. A. Stone, 1982

Organometallic chemistry is an interdisciplinary science which continues to grow at a rapid pace Although there is continued interest in synthetic and structural studies the last decade has seen a growing interest in the potential of organometallic chemistry to provide answers to problems in catalysis synthetic organic chemistry and also in the development of new materials This Specialist Periodical Report aims to reflect these current interests reviewing progress in theoretical organometallic chemistry main group chemistry the lanthanides and all aspects of transition metal chemistry Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued The current list of Specialist Periodical Reports can be seen on the inside flap of this volume

Advances in Organometallic Chemistry Pedro J. Perez, 2018-10-25

Advances in Organometallic Chemistry Volume 70 contains authoritative review articles of worldwide known researchers in the field of organometallic chemistry This longstanding serial is known for its comprehensive coverage of topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more It is ideal for a wide range of researchers involved in organometallic chemistry including synthetic protocols mechanistic studies and practical applications Topics of note in this new release include Carbon Dioxide Electoreduction Catalyzed by Organometallic Complexes Single electron Elementary Steps in Homogeneous Organometallic

Catalysis Recent advances in catalytic hydrosilylation of carbonyl groups mediated by well defined first row late transition metals and more Contains contributions from leading authorities in the field of organometallic chemistry Covers topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more Informs and updates readers on the latest developments in the field Carefully edited to provide easy to read material

Electro-catalysis At Chemically Modified Solid Surfaces Jacques Simonet, 2017-10-13 This book documents Professor Jacques Simonet's contribution to building new electrode materials and their related catalytic reactions Research includes synthesis of new alloys of palladium discovery of new composite electrodes including gold and silver graphene and the creation of new materials through judicious cathodic or anodic doping Additionally studies demonstrate the malleability and reactivity of previously unused precious and semi precious metals for the creation of 2D and 3D catalytic materials Studies key to innovative research show how transition metals may reversibly cathodically insert small size electro active molecules such as CO₂ and O₂ and be applied to methods of depollution brought by carbon and nitrogen oxides Written for practical use Simonet has provided both theory and tools needed for those aiming to recreate and develop his experiments in electrochemical catalysis and surface modifications This full publication of research gives graduate and post graduate students of chemistry electrochemistry and catalysis an in depth insight into key historical and modern developments in the field

Organometallics in Organic Synthesis Armin de Meijere, Heindirk tom Dieck, 2012-12-06 More and more possible applications of organometallic compounds in organic synthesis have been uncovered and a growing number of scientists are attracted to this area of research This book presents an state of the art account of the successful application of main and transition metal mediated syntheses It will stimulate new ideas and initiate further research in all areas of this fascinating chemistry

Kirk-Othmer Concise Encyclopedia of Chemical Technology, 2 Volume Set Kirk-Othmer, 2007-07-16 This is an easily accessible two volume encyclopedia summarizing all the articles in the main volumes Kirk Othmer Encyclopedia of Chemical Technology Fifth Edition organized alphabetically Written by prominent scholars from industry academia and research institutions the Encyclopedia presents a wide scope of articles on chemical substances properties manufacturing and uses on industrial processes unit operations in chemical engineering and on fundamentals and scientific subjects related to the field

Early Main Group Metal Catalysis Sjoerd Harder, 2020-04-06 Early Main Group Metal Catalysis gives a comprehensive overview of catalytic reactions in the presence of group 1 and group 2 metals Chapters are ordered to reaction type contain educational elements and deal with concepts illustrated by examples that cover the main developments After a short introduction on polar organometallic chemistry and synthesis of early main group metal complexes a variety of catalytic reactions are described e g polymerization of alkenes hydroamination and phosphination reactions hydrosilylation hydroboration and hydrogenation catalysis as well as enantioselective and Lewis acid catalysis The book addresses organic chemists and researchers in industry interested in the state of the art and new possibilities of early main group metal catalysis as well as newcomers to the field Written by a team

of leaders in the field it is a very welcome addition to the area of main group metal chemistry and to the field of catalysis

The Chemistry of Organomagnesium Compounds, 2 Volume Set Zvi Rappoport, Ilan Marek, 2008-04-30 Magnesium remains almost unique among the metals in its ability to react directly with a wide variety of compounds This organic chemistry field has seen steady progress and a volume on this topic is long overdue In the tradition of the Patai Series this title treats all aspects of functional groups containing chapters on the theoretical and computational foundations on analytical and spectroscopic aspects with dedicated chapters on Mass Spectrometry NMR IR UV etc on reaction mechanisms on applications in syntheses Depending on the functional group there are also chapters on industrial use on effects in biological and or environmental systems Since the area of Organomagnesium Chemistry continues to grow far beyond the classical Grignard Reagents this is an essential resource to help the reader keep abreast of the latest developments

Hydrogen Systems T. Nejat Veziroglu, 2013-10-08 Hydrogen Systems Volume I is a collection of papers presented at the International Symposium on Hydrogen Systems held in Beijing China on May 7 11 1985 The symposium provided a forum for reviewing the state of the art in hydrogen systems as an alternative source of energy The discussions are organized around the following themes hydrogen from fossil fuels electrolysis photolytic hydrogen generation thermo and photochemical methods of hydrogen production hydrogen from hydrogen sulfide catalysts bio production of hydrogen novel and hybrid methods of hydrogen production hydrogen storage and handling metal titanium lanthanum and light hydrides and hydrogen utilization Comprised of 53 chapters this volume first deals with central place theory and the dominance of hydrogen as an energy carrier followed by a detailed account of hydrogen production from fossil fuels such as coal and petroleum coke The reader is systematically introduced to photoelectrocatalytic splitting of water into hydrogen by doping sandwich semiconductor photoelectrodes and visible light induced formation of hydrogen from hydrogen sulfide Subsequent chapters explore the photocatalytic cleavage of water on noble metal photocatalysis with particular reference to hydrogen generation through photoinduced reduction of water and oxygen generation through photoinduced oxidation of water hydrogen production using an immobilized co culture of anaerobic and photosynthetic bacteria and storage and handling of liquid hydrogen in automotive vehicles This monograph will be of interest to scientists engineers environmentalists and energy planners

The Chemistry of Metal-Organic Frameworks, 2 Volume Set Stefan Kaskel, 2016-09-13 Providing vital knowledge on the design and synthesis of specific metal organic framework MOF classes as well as their properties this ready reference summarizes the state of the art in chemistry Divided into four parts the first begins with a basic introduction to typical cluster units or coordination geometries and provides examples of recent and advanced MOF structures and applications typical for the respective class Part II covers recent progress in linker chemistries while special MOF classes and morphology design are described in Part III The fourth part deals with advanced characterization techniques such as NMR in situ studies and modelling A final unique feature is the inclusion of data sheets of commercially available MOFs in the appendix enabling

experts and newcomers to the field to select the appropriate MOF for a desired application A must have reference for chemists materials scientists and engineers in academia and industry working in the field of catalysis gas and water purification energy storage separation and sensors

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