Topics in Organometallic Chemistry 40

Gerard van Koten
David Milstein *Editors*

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Gerard van Koten,David Milstein

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researchers involved in organometallic chemistry including synthetic protocols mechanistic studies and practical applications 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 **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 **Chalcogen Chemistry** Vito Lippolis,Claudio Santi,Eder J. Lenardão,Antonio L. Braga,2023-02-15 Up until a few decades ago chalcogen chemistry was mainly represented by the chemistry of sulfur containing compounds However with the rise in research around selenium and tellurium compound chemistry the field has developed significantly as it continues to uncover and understand the peculiarities chalcogens exhibit Taking an introductory approach this book is the foundation to the subject that has been long needed Covering organic and inorganic synthesis structural properties coordination chemistry and computational modelling all key classes of chalcogen compounds are illustrated Applications across materials science biology pharmaceutical science and environmental topics highlight to readers the impact of chalcogen chemistry in many aspects of research Edited by international leaders in the field Chalcogen Chemistry brings together contributions from acclaimed researchers around the world This book is ideal for newcomers and established researchers and provides the first building block to uncovering this fascinating field Pincer and Pincer-Type Complexes Kálmán J. Szabó,Ola F. Wendt,2014-06-10 This new book on this hot topic summarizes the key achievements for the synthesis and catalytic applications of pincer and pincer type complexes providing readers with the latest research highlights The editors have assembled an international team of leaders in the field and their contributions focus on the application of various pincer complexes in modern organic synthesis and catalysis such as C C and C X bond forming reactions C H bond functionalization and the activation of small molecules as well as

asymmetric catalysis A must have for every synthetic chemist in both academia and industry intending to develop new catalysts and improved synthetic protocols Transition-Metal-Catalyzed C-H Functionalization of Heterocycles, 2 Volumes Tharmalingam Punniyamurthy,Anil Kumar,2023-03-28 Transition Metal Catalyzed C H Functionalization of Heterocycles A comprehensive guide to recent advances in this field Constituting the majority of all known compounds heterocycles are structures that incorporate one or more heteroatoms within their core thus exhibiting properties that are quite different from their all carbon analogs They are fundamental to all fields of chemistry and therefore their synthesis and modification has attracted a great deal of attention in the recent years In this vein transition metal catalyzed C H bond functionalization forms a crucial tool for generating and analyzing heterocyclic compounds Transition Metal Catalyzed C H Functionalization of Heterocycles Two Volume Set showcases diverse C H functionalization methodologies and their incorporation into the latest research The chapters serve as an essential tool depicting detailed site selective functionalization of heterocyclic cores along with a comprehensive discussion on their mechanistic approaches Readers of Transition Metal Catalyzed C H Functionalization of Heterocycles Two Volume Set will also find A detailed introduction to C H activation along with the mechanistic aspects of transition metal catalyzed C H bond activation reactions Easy to use structures with each chapter dedicated to a type of heterocycle and its specific functionalization methodologies A leading team of international authors in C H bond functionalization Transition Metal Catalyzed C H Functionalization of Heterocycles Two Volume Set is a valuable guide for students and researchers in organic synthesis and process development in both academic and industrial contexts

The Chemistry of Pincer Compounds David Morales-Morales,Craig G.M. Jensen,2011-08-11 Pincer complexes are formed by the binding of a chemical structure to a metal atom with at least one carbon metal bond Usually the metal atom has three bonds to a chemical backbone enclosing the atom like a pincer The resulting structure protects the metal atom and gives it unique properties The last decade has witnessed the continuous growth in the development of pincer complexes These species have passed from being curiosity compounds to chemical chameleons able to perform a wide variety of applications Their unique metal bound structures provide some of the most active catalysts yet known for organic transformations involving the activation of bonds The Chemistry of Pincer Compounds details use of pincer compounds including homogeneous catalysis enantioselective organic transformations the activation of strong bonds the biological importance of pincer compounds as potential therapeutic or pharmaceutical agents dendrimeric and supported materials Describes the chemistry and applications of this important class of organometallic and coordination compounds Covers the areas in which pincer complexes have had an impact Includes information on more recent and interesting pincer compounds not just those that are well known **Advances in Organometallic Chemistry** ,2016-05-25 Advances in Organometallic Chemistry contains authoritative review articles of world wide known researchers on the field of organometallic chemistry covering topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more The book will benefit a

wide range of researchers involved in organometallic chemistry including synthetic protocols mechanistic studies and practical applications 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 all the latest developments in the field Carefully edited to provide easy to read material The Organometallic Chemistry of N-heterocyclic Carbenes Han Vinh Huynh,2017-01-23 The Organometallic Chemistry of N heterocyclic Carbenes describes various aspects of N heterocyclic Carbenes NHCs and their transition metal complexes at an entry level suitable for advanced undergraduate students and above The book starts with a historical overview on the quest for carbenes and their complexes Subsequently unique properties reactivities and nomenclature of the four classical NHCs derived from imidazoline imidazole benzimidazole and 1 2 4 triazole are elaborated General and historically relevant synthetic aspects for NHCs their precursors and complexes are then explained The book continues with coverage on the preparation and characteristics of selected NHC complexes containing the most common metals in this area i e Ni Pd Pt Ag Cu Au Ru Rh and Ir The book concludes with an overview and outlook on the development of various non classical NHCs beyond the four classical types Topics covered include Stabilization dimerization and decomposition of NHCs Stereoelectronic properties of NHCs and their evaluation Diversity of NHCs Isomers of NHC complexes and their identification NMR spectroscopic signatures of NHC complexes normal abnormal and mesoionic NHCs The Organometallic Chemistry of N heterocyclic Carbenes is an essential resource for all students and researchers interested in this increasingly important and popular field of research Advances in Organometallic Chemistry Pedro J. Perez,2020-06-06 Advances in Organometallic Chemistry Volume 74 the latest release in 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 with this updated release including chapters on Metal dendrimers used in biomedical applications Sigma bond activation reactions induced by unsaturated osmium IV complexes with bulky phosphines Base metal pincer complexes 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 **Modern Organoaluminum Reagents** Simon Woodward,Samuel Dagorne,2012-11-14 Janusz Lewi ski and Andrew E H Wheatley Simple trivalent organoaluminum species perspectives on structure bonding and reactivity Stephan Schulz Organoaluminum complexes with bonds to s block p block d block and f block metal centers Samuel Dagorne and Christophe Fliedel Low valent organoaluminium I II species Rudolf Wehmschulte Organoaluminum species in homogeneous polymerization catalysis Paul Knochel Tobias Bl mke Klaus Groll and Yi Hung Chen Preparation of Organoalanes for Organic Synthesis Yuki Naganawa and Keiji Maruoka Reactions Triggered by Lewis Acidic Organoaluminum Species Usein M Dzhemilev and Vladimir A D yakonov Hydro Carbo and Cycloalumination of

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Mingos,2014-06-05 The series Structure and Bonding publishes critical reviews on topics of research concerned with chemical structure and bonding The scope of the series spans the entire Periodic Table and addresses structure and bonding issues associated with all of the elements It also focuses attention on new and developing areas of modern structural and theoretical chemistry such as nanostructures molecular electronics designed molecular solids surfaces metal clusters and supramolecular structures Physical and spectroscopic techniques used to determine examine and model structures fall within the purview of Structure and Bonding to the extent that the focus is on the scientific results obtained and not on specialist information concerning the techniques themselves Issues associated with the development of bonding models and generalizations that illuminate the reactivity pathways and rates of chemical processes are also relevant The individual volumes in the series are thematic The goal of each volume is to give the reader whether at a university or in industry a comprehensive overview of an area where new insights are emerging that are of interest to a larger scientific audience Thus 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 should be presented using selected examples to illustrate the principles discussed A description of the physical basis of the experimental techniques that have been used to provide the primary data may also be appropriate if it has not been covered in detail elsewhere The coverage need not be exhaustive in data but should rather be conceptual concentrating on the new principles being developed that will allow the reader who is not a specialist in the area covered to understand the data presented Discussion of possible future research directions in the area is welcomed Review articles for the individual volumes are invited by the volume editors Readership research scientists at universities or in industry graduate students Special offer For all customers who have a standing order to the print version of Structure and Bonding we offer free access to the electronic volumes of the Series published in the current year via SpringerLink **Transition Metal-Dinitrogen Complexes** Yoshiaki Nishibayashi,2019-01-25 A comprehensive book that explores nitrogen fixation by using transition metal dinitrogen complexes Nitrogen fixation is one of the most prominent fields of research in chemistry This book puts the focus on the development of catalytic ammonia formation from nitrogen gas under ambient reaction conditions that has been recently repowered by some research groups With contributions from noted experts in the field Transition Metal Dinitrogen Complexes offers an important guide and comprehensive resource to the most recent research and developments on the topic of nitrogen fixation by using transition metal dinitrogen The book is filled with the information needed to understand the synthesis of transition metal dinitrogen complexes and their reactivity This important book Offers a resource for understanding nitrogen fixation chemistry that is essential for explosives pharmaceuticals dyes and all forms of life Includes the information needed for anyone interested in the field of nitrogen fixation by using transition metal dinitrogen complexes Contains state of the art research on synthesis of transition metal dinitrogen complexes and their reactivity in nitrogen fixation Incorporates contributions from well known specialists and

experts with an editor who is an innovator in the field of dinitrogen chemistry Written for chemists and scientists with an interest in nitrogen fixation Transition Metal Dinitrogen Complexes is a must have resource to the burgeoning field of nitrogen fixation by using transition metal dinitrogen complexes Advances in Heterocyclic Chemistry ,2024-02-07 Advances in Heterocyclic Chemistry Volume 142 the latest release in this definitive series combines descriptive synthetic chemistry and mechanistic insight to yield an understanding of how chemistry drives the preparation and useful properties of heterocyclic compounds Chapters in this new release include Recent advances in the Synthesis of Benzo b furans Recent Advances in the Synthesis of 6 Membered Heterocycles via Domino and Multicomponent Reactions from 2017 2022 Multi component synthesis of isatin based bioactive heterocycles Recent advances in the chemistry of pyrazolo 1 5 a pyrimidines The Literature of Heterocyclic Chemistry Part XXI 2021 and much more Additional sections present the latest Advances in applications of dihydropyridines in organic chemistry and Strategies for the annulation of five membered sulfur nitrogen rings to benzene and heterocycles Considered the definitive serial in the field of heterocyclic chemistry Serves as the go to reference for organic chemists polymer chemists and many biological scientists Provides the latest comprehensive reviews written by established authorities in the field Combines descriptive synthetic chemistry and mechanistic insights to enhance understanding on how chemistry drives the preparation and useful properties of heterocyclic compounds **Ruthenium in Catalysis** Pierre H. Dixneuf,Christian Bruneau,2014-10-18 The series Topics in Organometallic Chemistry presents critical overviews of research results in organometallic chemistry As our understanding of organometallic structure properties and mechanisms increases new ways are opened for the design of organometallic compounds and reactions tailored to the needs of such diverse areas as organic synthesis medical research biology and materials science Thus the scope of coverage includes a broad range of topics in pure and applied organometallic chemistry where new breakthroughs are being achieved that are of significance to a larger scientific audience The individual volumes of Topics in Organometallic Chemistry are thematic Review articles are generally invited by the volume editors

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