Volume Editors C. Coperet · B. Chaudret

Surface and Interfacial Organometallic Chemistry and Catalysis



S. David Jackson, Justin S. J. Hargreaves

Surface and Interfacial Organometallic Chemistry and Catalysis C. Copéret, Bruno Chaudret, 2005-11-03 With contributions by numerous experts Applied Homogeneous Catalysis with Organometallic Compounds Boy Cornils. Wolfgang A. Herrmann, Matthias Beller, Rocco Paciello, 2017-12-26 The completely revised third edition of this four volume classic is fully updated and now includes such topics as 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 **Medicinal Organometallic Chemistry** Gérard Jaouen, Nils Metzler-Nolte, 2010-09-10 Contents G rard Jaouen Nils Metzler Nolte Introduction St phane GIBAUD and G rard JAOUEN Arsenic based drugs from Fowler's solution to modern anticancer chemotherapy Ana M Pizarro Abraha Habtemariam and Peter J Sadler Activation Mechanisms for Organometallic Anticancer Complexes Angela Casini Christian G Hartinger Alexey A Nazarov Paul J Dyson Organometallic antitumour agents with alternative modes of action Elizabeth A Hillard Anne Vessi res Gerard Jaouen Ferrocene functionalized endocrine modulators for the treatment of cancer Megan Hogan and Matthias Tacke Titanocenes Cytotoxic and Anti Angiogenic Chemotherapy Against Advanced Renal Cell Cancer Seann P Mulcahy and Eric Meggers Organometallics as Structural Scaffolds for Enzyme Inhibitor Design Christophe Biot and Daniel Dive Bioorganometallic Chemistry and Malaria Nils Metzler Nolte Biomedical applications of organometal peptide conjugates Roger Alberto Organometallic Radiopharmaceuticals Brian E Mann Carbon Monoxide an essential signaling molecule Organometallic Chemistry Ian J S Fairlamb, Jason M Lynam, 2014-07-30 A series of critical reviews and perspectives focusing on specific aspects of organometallic chemistry interfacing with other fields of study are provided For this volume the critical reviews cover topics such as the activation of inert carbon hydrogen bonds ligand design and organometallic radical species For example Charlie O Hara discusses how mixed metal compounds may perform the highly selective activation of C H bonds and in particular how synergic relationships between various metals are crucial to this approach The chemistry of a remarkable series of air stable chiral primary phosphine ligands is discussed in some depth by Rachel Hiney Arne Ficks Helge M3ller Bunz Declan Gilheany and Lee Higham This article focuses on the preparation of these ligands and also how they may be applied in various catalytic applications Bas De Bruin reports on how ligand radical reactivity can be employed in synthetic organometallic chemistry and catalysis to achieve selectivity in radical type transformations As well as highlighting ligand centered radical transformations in open shell transition metals an overview of the catalytic mechanism of Co II catalysed olefin cyclopropanation is given showing that enzyme like cooperative metal ligand radical reactivity is no longer limited to real enzymes Valuable and informative comprehensive reviews in the field of organometallic chemistry are also covered in this volume For example organolithium and organocuprate chemistry are

reviewed by Joanna Haywood and Andrew Wheatley aspects in Group 2 Be Ba and Group 12 Zn Hg compounds by Robert Less Rebecca Melen and Dominic Wright metal clusters by Mark Humphrey and Marie Cifuentes and recent developments in the chemistry of the elements of Group 14 focusing on low coordination number compounds by Richard Layfield This volume therefore covers many synthetic and applied aspects of modern organometallic chemistry which ought to be of interest to inorganic organic and applied catalysis fields Conducting and Magnetic Organometallic Molecular Materials Marc Fourmiqué, 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 comp mentary 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 Metal Oxide Catalysis, 2 Volume Set S. David Jackson, Justin S. J. Hargreaves, 2008-11-24 With its two volume structure this handbook and ready reference allows for comprehensive coverage of both characterization and applications while uniform editing throughout ensures that the structure remains consistent The result is an up to date review of metal oxides in catalysis The first volume covers a range of techniques that are used to characterize oxides with each chapter written by an expert in the field Volume 2 goes on to cover the use of metal oxides in catalytic reactions For all chemists and engineers working in the field of heterogeneous catalysis

Nanomaterials in Catalysis Philippe Serp, Karine Philippot, 2012-11-15 Nanocatalysis has emerged as a field at the interface between homogeneous and heterogeneous catalysis and offers unique solutions to the demanding requirements for catalyst improvement Heterogeneous catalysis represents one of the oldest commercial applications of nanoscience and nanoparticles of metals semiconductors oxides and other compounds have been widely used for important chemical reactions. The main focus of this fi eld is the development of well defined catalysts which may include both metal nanoparticles and a nanomaterial as the support These nanocatalysts should display the benefits of both homogeneous and heterogeneous catalysts such as high efficiency and selectivity stability and easy recovery recycling.

in this book and in particular it provides a comprehensive overview of the science of colloidal nanoparticles A broad range of topics from the fundamentals to applications in catalysis are covered without excluding micelles nanoparticles in ionic liquids dendrimers nanotubes and nanooxides as well as modeling and the characterization of nanocatalysts making it an indispensable reference for both researchers at universities and professionals in industry Precursor Chemistry of Advanced Materials Roland A. Fischer, 2005-09-29 Material synthesis by the transformation of organometallic compounds precursors by vapor deposition techniques such as chemical vapor deposition CVD and atomic layer deposition ALD has been in the forefront of modern day research and development of new materials. There exists a need for new routes for designing and synthesizing new precursors as well as the application of established molecular precursors to derive tuneable materials for technological demands With regard to the precursor chemistry a most detailed understanding of the mechanistic complexity of materials formation from molecular precursors is very important for further development of new processes and advanced materials To emphasize and stimulate research in these areas this volume comprises a selection of case studies covering various key aspects of the interplay of precursor chemistry with the process conditions of materials formation particularly looking at the similarities and differences of CVD ALD and nanoparticle synthesis e g colloid chemistry involving tailored molecular precursors 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 Molecular Organometallic Materials for Optics Hubert Bozec, Véronique Guerchais, 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 Guerchais H Le Bozec Metal Complexes Featuring Photochromic Ligands

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