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Nota di contenuto	Iridium Complexes in Organic Synthesis; Contents; Preface; List of Contributors; 1: Application of Iridium Catalysts in the Fine Chemicals Industry; 1.1 Introduction; 1.2 Industrial Requirements for Applying Catalysts; 1.2.1 Characteristics of the Manufacture of Enantiomerically Pure Products; 1.2.2 Process Development: Critical Factors for the Application of Catalysts; 1.2.3 Requirements for Practically Useful Catalysts; 1.2.3.1 Preparation Methods; 1.2.3.2 Catalysts Cost; 1.2.3.3 Availability of the Catalysts; 1.2.3.4 Catalytic Performance; 1.2.3.5 Separation 1.3 Enantioselective Hydrogenation of C=N Bonds1.3.1 Catalysts and Scope; 1.3.2 Industrial Applications; 1.4 Enantioselective Hydrogenation of C=C Bonds; 1.4.1 Catalysts and Scope; 1.4.2 Industrial Applications; 1.5 Miscellaneous Catalytic Applications with Industrial Potential; 1.6 Conclusions and Outlook; References; 2: Dihydrido Iridium Triisopropylphosphine Complexes: From Organometallic Chemistry to Catalysis; 2.1 Introduction; 2.2 [Ir(COD)(NCMe)(PR ₃)]BF ₄ (PR ₃ = PiPr ₃ , PMe ₃) and Related Complexes as

Catalyst Precursors: Is 1,5-Cyclo-Octadiene an Innocent and Removable Ligand?
2.3 The Dihydrido Iridium Triisopropylphosphine Complex $[\text{IrH}_2(\text{NCMe})_3(\text{PiPr}_3)]\text{BF}_4$ as Alkene Hydrogenation Catalysts
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2.5 Dihydrido Arene Iridium Triisopropylphosphine Complexes;
2.6 Dihydrido Iridium Triisopropylphosphine Complexes as Imine Hydrogenation Catalysts;
2.7 Conclusions; Acknowledgments; References;
3: Iridium N-Heterocyclic Carbene Complexes and Their Application as Homogeneous Catalysts;
3.1 Introduction;
3.2 Types of Ir-NHC and Reactivity
3.2.1 Mono-NHC s and Intramolecular C-H Activation
3.2.2 Chelating bis-NHC s;
3.2.3 Abnormal NHCs;
3.3 Catalysis with Ir-NHC s;
3.4 Conclusions; References;
4: Iridium-Catalyzed C=O Hydrogenation;
4.1 Introduction;
4.2 Homogeneous C=O Hydrogenations;
4.2.1 Chemoselective Hydrogenations;
4.2.2 Enantioselective Hydrogenations;
4.2.3 Transfer Hydrogenation (TH);
4.2.4 Asymmetric Transfer Hydrogenation (ATH);
4.3 Heterogeneous, Supported and Biocatalytic Hydrogenations; References;
5: Catalytic Activity of Cp* Iridium Complexes in Hydrogen Transfer Reactions;
5.1 Introduction
5.2 Hydrogen Transfer Oxidation of Alcohols (Oppenauer-Type Oxidation)
5.3 Transfer Hydrogenation of Unsaturated Compounds;
5.3.1 Transfer Hydrogenation of Quinolines;
5.3.2 Transfer Hydrogenation of Ketones and Imines;
5.4 Asymmetric Synthesis Based on Hydrogen Transfer;
5.4.1 Asymmetric Transfer Hydrogenation of Ketones;
5.4.2 Dynamic Kinetic Resolution;
5.5 Hydrogen Transfer Reactions in Aqueous Media;
5.6 Carbon-Nitrogen Bond Formation Based on Hydrogen Transfer;
5.6.1 N-Alkylation of Amines with Alcohols;
5.6.2 Cyclization of Amino Alcohols;
5.6.3 Cyclization of Primary Amines with Diols
5.6.4 Amidation of Alcohols with Hydroxylamine

Sommario/riassunto

Ranging from hydrogenation to hydroamination, cycloadditions and nanoparticles, this first handbook to comprehensively cover the topic of iridium in synthesis discusses the important advances in iridium-catalyzed reactions, namely the use of iridium complexes in enantioselective catalysis. A must for organic, complex and catalytic chemists, as well as those working with/on organometallics.
