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In the last decade there have been numerous advances in the area of rhodium-catalyzed hydroformylation, such as highly selective catalysts of industrial importance, new insights into mechanisms of the reaction, very selective asymmetric catalysts, in situ characterization and application to organic synthesis. The views on hydroformylation which still prevail in the current textbooks have become obsolete in several respects.

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The influence of electronic ligand properties on the catalyst performance in the rhodium-catalyzed hydroformylation of alkenes has been investigated. Two bidentate phosphorus amidite and phosphinite ligands have been synthesized: 1,1'-biphenyl-2,2'-diyl-bis(dipyrrolylphosphoramidite) (3) and 1,1'-biphenyl-2,2'-diyl-oxy-bis(diphenylphosphinite) (4).

~~Rhodium Catalyzed Hydroformylation and Deuterioformylation ...~~

Ligand effects in rhodium-catalyzed hydroformylation with bisphosphines: steric or electronic? Y. Jiao, M. S. Torne, J. Gracia, J. W. (. Niemantsverdriet and P. W. N. M. van Leeuwen, Catal.

~~Ligand effects in rhodium catalyzed hydroformylation with ...~~

Rhodium-Catalyzed Enantioselective Cyclopropanation of Olefins with N-Sulfonyl 1,2,3-Triazoles. Journal of the American Chemical Society 2009, 131 (50) , 18034-18035. DOI: 10.1021/ja908075u. Jie Chen and Shengming Ma.

~~Rhodium Catalyzed Hydroformylation of Cyclopropenes ...~~

Modern Rhodium?Catalyzed Organic Reactions. Editor (s): Prof. P. Andrew Evans. First published: 10 January 2005. Print ISBN: 9783527306831 | Online ISBN: 9783527604692 | DOI: 10.1002/3527604693. Copyright © 2005 Wiley?VCH Verlag GmbH & Co. KGaA.

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Rhodium?Catalyzed Desymmetrization by Hydroformylation of Cyclopentenones: Synthesis of Chiral Carbocyclic Nucleosides ... Hubei, 430072 China. These authors contributed equally to this work. Search for more papers by this author. Biao Wei. Key Laboratory of Biomedical Polymers of Ministry of Education & College of Chemistry and Molecular ...

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Hydroformylation of styrene and 1-octene catalyzed by binuclear and oligomer rhodium(I) complexes containing the bis-p-phosphinito ligands [(p-Ph2POC6H4)2X] (X=O, CMe2, S). Journal of Molecular Catalysis A: Chemical 1999 , 144 (3) , 379-388.

~~Bulky Diphosphite Modified Rhodium Catalysts ...~~

Abstract. A rhodium?catalyzed one?pot hydroformylation of olefins with CO 2 , hydrosilane, and H 2 has been developed that affords the aldehydes in good chemoselectivities at low catalyst loading. Mechanistic studies indicate that the transformation is likely to proceed through a tandem sequence of poly (methylhydrosiloxane) (PMHS) mediated CO 2 reduction to CO and a conventional rhodium?catalyzed hydroformylation with CO/H 2.

~~Rhodium?Complex?Catalyzed Hydroformylation of Olefins with ...~~

Author: P. Andrew Evans. Publisher: John Wiley & Sons. ISBN: Category: Science. Page: 496. View: 704

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Rhodium Catalyzed Hydroformylation. Piet W.N.M. van Leeuwen, Carmen Claver. Springer Science & Business Media, Mar 31, 2002 - Science - 286 pages. 0 Reviews. In the last decade there have been...

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Hydroformylation, also known as oxo synthesis or oxo process, is an industrial process for the production of aldehydes from alkenes. This chemical reaction entails the net addition of a formyl group and a hydrogen atom to a carbon-carbon double bond. This process has undergone continuous growth since its invention: Production capacity reached 6.6×106 tons in 1995. It is important because aldehydes are easily converted into many secondary products. For example, the resulting aldehydes are ...

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Abstract. A new in situ high-pressure IR (HP-IR) autoclave is presented that is especially suited for mechanistic studies of fast catalytic reactions. This review summarizes several applications of the HP-IR cell in the rhodium catalyzed hydroformylation of alkenes. The most abundant species during the very fast hydroformylation of 1-alkenes using tris (2-tert -butyl-4-methylphenyl) phosphite was identified as the Rh acyl complex RhC (O)R (CO) 3L.

~~In situ mechanistic studies in rhodium catalyzed ...~~

The authors further tested the utility of this reactor in gas-liquid homoge- neously catalyzed reactions, by performing a two-step flow process combining Heck reactions with hydroformylation.

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