

NHETEROCYCLIC CARBENES IN TRANSITION METAL CATALYSIS%0A

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N-Heterocyclic Carbenes in Late Transition Metal Catalysis Silvia D ez-Gonz lez , Nicolas Marion and Steven P. Nolan * Institute of Chemical Research of Catalonia (ICIQ), Av. Pa sos Catalans 16, 43007 Tarragona, Spain, and School of Chemistry, University of St Andrews, North Haugh, St Andrews KY16 9ST, U.K.

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N Heterocyclic carbenes Advances in transition metal and

The use of N-heterocyclic carbenes (NHCs) in organic and transition metal chemistry is reviewed. This report presents the developments that have occurred in the last 12 months, describing the use of carbenes as ligands in transition metal chemistry and the catalytic uses of such transition metal complexes.

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Transition metal carbene complex Wikipedia

A transition metal carbene complex is an organometallic compound featuring a divalent organic ligand. The divalent organic ligand coordinated to the metal center is called a carbene . Carbene complexes for almost all transition metals have been reported.

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N Heterocyclic Carbenes in Transition Metal Catalysis

It was only in the early 1990s that carbenes with the carbene carbon being incorporated in a nitrogen containing heterocycle (N-heterocyclic carbenes or NHCs) were found to be stable enough to be isolated. Since the first report on the application of NHCs as ligands in transition metal catalysis in

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N-Heterocyclic Carbenes in Transition Metal Catalysis and Organocatalysis features all catalytic reactions enabled by N-heterocyclic carbenes (NHCs), either directly as organocatalysts or as ligands for transition metal catalysts. An explosion in the use of NHCs has been reported in the literature during the past seven years making this comprehensive overview highly apropos.

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N Heterocyclic Carbenes in Transition Metal Catalysis

3 Attractive Features of NHC The attractivity of N-heterocyclic carbenes as ligands for transition metal catalysis is a result of the following features. 3.1 Electronic Character N-Heterocyclic carbenes are very electron-rich, neutral -donor ligands.

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N Heterocyclic Carbenes Generation under Mild Conditions

Stable mono- and dicarbene adducts of late transition metals are readily accessible either by reaction of imidazolium salts with metal complexes bearing basic ligands, or by the cleavage of chloro- and acetato-bridged dinuclear metal complexes with the free carbenes (e.g., 1,3-dimethylimidazoline-2-ylidene).

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Smart N Heterocyclic Carbene Ligands in Catalysis

Abstract: Although the coordination chemistry of N-heterocyclic carbenes (NHCs) with transition metals has been explored for half a century, only in the past ten years has the chemistry of metallosupramolecular assemblies based on poly-NHC ligands been studied more

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N Heterocyclic Carbenes Princeton University

the salts of the carbenes are stable without decomposition in air - phosphines degrade at higher temperatures and oxidize upon exposure to air NHCs can complex with low valent and high valent transition metals, alkaline earth metals, and

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Privileged chiral N heterocyclic carbene ligands for

Chiral ligands play a central role in enantioselective transition-metal catalysis. The success of achiral N-heterocyclic carbenes (NHCs) as stable electron-rich neutral ligands in homogeneous catalysis led to the development of a manifold of chiral NHCs as stereodirecting ancillary ligands for various enantioselective transformations.

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