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Recent Advances In Copper Catalyzed However, several novel copper-catalyzed MCRs have appeared in the literature , as copper is becoming an inexpensive and environmentally-friendly alternative to other precious and rare metals . Among all the MCRs, those involving imines as substrates or intermediates are experiencing a renewed interest in recent years, due to the availability of several amines and carbonyl compounds, and to the substrate-dependent reactivity that characterizes the chemical behaviour of imines. Recent advances in copper-catalyzed imine-based ... C-C bond formation using transition metal catalyzed

Sonogashira coupling reaction is an indispensable tool in synthetic organic chemistry. Initially Pd complexes were used as catalysts; however advances in catalyst design fuelled the development of Cu catalysts, which are cheaper and more environmentally benign than the Pd complexes. Recent advances and perspectives in copper-catalyzed ... Copper-catalyzed or -mediated enantioselective carbon-carbon or carbon-heteroatom coupling reactions have been one of the most challenging areas in asymmetric catalysis in recent years. The asymmetric copper-catalyzed C(Aryl)-C(Aryl) bond formation through the incorporation of a chiral ester group as auxiliary into the substrates, has emerged as

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a powerful tool for constructing natural products and useful ligands with axial chirality. Based on asymmetric desymmetrization and kinetic ... Recent advances in copper-catalyzed asymmetric coupling ... Copper-catalyzed (or -mediated) asymmetric coupling reactions have received significant attention over the past few years. Especially the coupling reactions of aryl or alkyl halides with... (PDF) Recent Advances in Copper-Catalyzed Asymmetric ... This review summarizes recent advances over the past 3 years in copper-catalyzed inter- and intramolecular reactions involving C-H and X-H (X= carbon or heteroatom) under oxidative dehydrogenation process in achieving C-C, C-O, C-N, C-S and

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C–P bond formations. Keywords:

Cross dehydrogenation, oxidative coupling, copper catalyst, C–H

activation. Recent Advances in

Copper-Catalyzed Oxidative Cross

... In recent years, the copper-catalyzed propargylic substitutions

using nitrogen nucleophiles have made great progress. Different

kinds of copper-catalyzed

propargylic aminations, as well as

the cycloadditions with propargylic amination as the key step, have

been developed. Propargylic

amination of propargylic

esters Recent advances in copper-

catalyzed propargylic ... Recent

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Alcohol Oxidation in Homogeneous

Medium by Telma F. S. Silva * and

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Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais, 1049-001 Lisboa, Portugal Recent Advances in Copper Catalyzed Alcohol Oxidation in ... Recent advances in copper-catalyzed asymmetric coupling reactions Copper-catalyzed (or -mediated) asymmetric coupling reactions have received significant attention over the past few years. Recent advances in copper-catalyzed asymmetric coupling ... A comprehensive overview of recent literature from 2003 concerning advances in enantioselective copper catalysed 1,4-addition of organometallic reagents to α,β -unsaturated compounds is given in this critical review. About 200 ligands and catalysts are presented, with a focus on stereoselectivities, catalyst loading, ligand structure

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and substrate scope. Recent advances in enantioselective copper-catalyzed 1,4 ... The classical Cu-catalyzed reaction between thiols and aryl halides required stoichiometric amounts of copper salts, polar solvents and high temperature.²¹ In recent years there is an upsurge of reports on C-S bond formation using various ligands such as phosphazene P2-Et base, neocuproine etc., primarily due to the high stability and low cost of copper. Recent advances in copper-catalyzed C-S cross-coupling ... One of the fundamental utilities of copper catalysis is in the C-N bond formation by using carbon sources and nitrogen functional groups such as amides. In this review, the recent progress in the amidation reactions employing

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copper-catalyzed C-H amidation is summarized. Recent advances in copper-catalyzed C-H bond amidation Recent advances in copper-catalyzed asymmetric coupling reactions

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Catalyst Research Recent advances

in copper-catalyzed asymmetric

coupling ... This review highlights

the recent developments in copper-

catalyzed carbon-sulfur bond

forming reactions. The C-S bond

forming reactions serve as powerful

tools in synthetic organic chemistry

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for the synthesis of various molecules that are of biological, pharmaceutical and material interest. Recent advances in copper-catalyzed C-S cross-coupling

... Copper-catalyzed Reactions of Hydroxypyridines and Related Compounds with Aryl Halides.

Pyrrole-2-carboxylic Acid as a Ligand for the Copper-catalyzed Reactions of Primary Anilines with Aryl Halides. An Improved Copper-based Catalyst System for the Reactions of Aryl Halides with

Aliphatic Alcohols. Recent advances in copper- and palladium-catalyzed carbon ... In this chapter, we present a small overview of the most recent and exciting advances in the field of copper-catalyzed aerobic oxidations, focusing only on C C bond-forming reactions and

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... (PDF) Catalytic Oxidation of Alcohols: Recent

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Catalytic Functionalization of

N-Oxide Compounds via C ... Direct

Carbamoylation of Quinoline

N-oxides with

Hydrazinecarboxamides via C–H

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Functionalization of N-Oxide

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Component Carboamination of

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Alkynyl Anilines and o-Benzoxazolyl

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