

## Recent Advances In Copper Catalyzed C S Cross Coupling

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various copper-catalyzed coupling reactions, C-S bond forming reactions have gained much attention due to its applications in the synthesis of molecules having biological and pharmaceutical impact. This review illustrates the current strategies and applications of Cu-catalyzed C-S cross coupling reactions.

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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.

Title:Recent Advances in Copper-Catalyzed Oxidative Cross-Coupling Chemistry VOLUME: 20 ISSUE: 5 Author(s):C. Uma Maheswari, Gadde S. Kumar and Kallu R. Reddy Affiliation:Inorganic and Physical Chemistry Division, CSIR-Indian Institute of Chemical Technology, Tarnaka, Hyderabad - 500 007, Telangana State, India. Keywords:Cross dehydrogenation, oxidative coupling, copper catalyst, C-H ...

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Among them, copper salts are of special importance because of their easy availability, bio-compatibility and economical advantages. 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 C–P bond ...

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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 nucleophiles became a very powerful tool for the formation of C–C, C–N, C–O and other carbon–heteroatom bonds as well as for the construction of heteroatom-containing ring systems.

Development of cross-coupling chemistry by direct functionalization of C–H or heteroatom–H bonds under oxidative conditions has recently emerged as pow...

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24/2/2021 · Copper catalysts are widely used in cross-dehydrogenative coupling and have found wide applications in heterocyclic chemistry. This review focuses on the recent advances in the synthesis of biologically important compounds such as nitrogen heterocycles, amines, amides, imines, and alkynes using copper-catalyzed cross-dehydrogenative coupling ...

An efficient approach for direct carbamoylation of terminal alkynes with formamides affording propiolamides has been developed by copper-catalyzed oxidative cross coupling of C(sp)-H and C(sp<sup>2</sup>)-H bonds in the presence of a pincer ligand with two imidazolyl groups. The

catalytic reaction is compatible with diverse functional groups but sensitive to the electronic effect of terminal alkyne and ...

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