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However, several novel

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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

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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

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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

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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 a powerful tool for constructing natural products and

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useful ligands with
axial chirality. Based
on asymmetric
desymmetrization and
kinetic ...

Recent advances in copper-catalyzed asymmetric coupling

...

One of the
fundamental utilities of
copper catalysis is in
the C-N bond
formation by using
carbon sources and
nitrogen functional

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groups such as amides.
In this review, the
recent progress in the
amidation reactions
employing copper-
catalyzed C-H
amidation is
summarized.

Recent advances in copper-catalyzed C-H bond amidation

Recent advances in
copper-catalyzed C-S
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reactions
Asha Sujatha,
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**Recent advances in
copper-catalyzed C-
S cross-coupling ...**

In recent years, the

copper-catalyzed

propargylic

substitutions using

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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 ...

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Copper Catalyzed
Alcohol Oxidation in
Homogeneous Medium
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and Luísa M. D. R. S.
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In 2012, Cai et al. [45] developed the first copper-catalyzed asymmetric intramolecular Ullmann C–N coupling reaction through a desymmetrization strategy. The reaction lead to the enantioselective formation of indolines and tetrahydroquinolines in high yields and up to >99% ee (Scheme 16).

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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.

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About 200 ligands and catalysts are presented, with a focus on stereoselectivities, catalyst loading, ligand structure and substrate scope.

Recent advances in enantioselective copper-catalyzed 1,4

...

The classical Cu-catalyzed reaction between thiols and aryl halides required stoichiometric amounts

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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.

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copper-catalyzed C-
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Recent advances in
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asymmetric coupling
reactions

Fengtao Zhou*^{1,2}
and Qian Cai*¹

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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...

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Asymmetric ...

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reactions | Anilkumar
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Academia.edu Abstract
Copper-catalyzed cross-
coupling reactions offer
a powerful tool for the
formation of

carbonheteroatom
bonds. Copper
catalysis has an

indisputable advantage

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over the other catalytic systems due to its low cost and the use of readily

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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

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In Copper-Catalyzed C-H Amidation
review, the recent progress in the amidation reactions employing copper-catalyzed C-H amidation is summarized. Recent advances in copper-catalyzed C-H bond amidation.

Recent advances in copper-catalyzed C-H bond amidation

...

Zhong-Liang Li, Gui-Chun Fang, Qiang-

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Shuai Gu, Xin-Yuan Liu,
Recent advances in
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1,2-difunctionalization
of alkenes, Chemical
Society Reviews,
10.1039/C9CS00681H,
(2020).

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CuAAC requires the
direct use of Cu(I) such
as cuprous bromide
(CuBr) or a source for
Cu(I) such as the
combination of Cu(II)
salts and a reducing
agent (e.g., CuSO₄ and
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