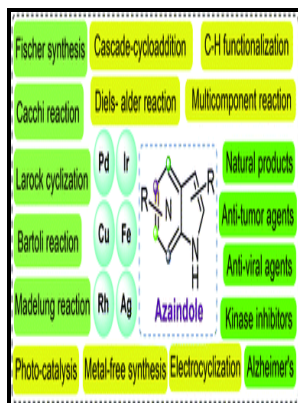


Stereoselective synthesis of carbo- and heterocycles through desymmetrization reactions.

- - Stereoselective Synthesis



Description: -

-Stereoselective synthesis of carbo- and heterocycles through desymmetrization reactions.

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1,3

Dienes with bulky terminal substituents C1 and C4 decrease the rate of reaction, presumably by impeding the approach of the diene and dienophile. Ni-Catalyzed intermolecular alkynylboration, thioallylation, and thiocarbonylation of alkynes were also developed for the efficient synthesis of alkenylborons and alkenylsulfides, which are versatile synthetic intermediates in organic synthesis.

Diels

Justus Liebigs Annalen der Chemie. O'Doherty Deoxo-trifluoro analog of d-glucose Stefano Bresciani Sr.

BJOC

A bulky substituent at the C2 or C3 position can increase reaction rate by destabilizing the s- trans conformation and forcing the diene into the reactive s- cis conformation. Liu, Yang Yang, Stephen L. Copper 2-ethylhexanoate 2 was subsequently identified as a superior copper II carboxylate as it is sold which is easier to handle.

Ni

When Less Is More More recently, we explored the use of O₂ as sole oxidant and oxygen source for the copper-catalyzed aminooxygenation of 4-pentenylsulfonamides. Copper-Catalyzed Enantioselective Addition of Styrene-Derived Nucleophiles to Imines Enabled by Ligand-Controlled Chemoselective Hydrocupration.

Synthesis of Heterocycles via Metal

JACS 124, 11492, 2001 2. Under similar conditions 7-membered ring 1,4-benzodiazepinones can be formed. Angewandte Chemie International Edition 2020, 59 37, 16128-16132.

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