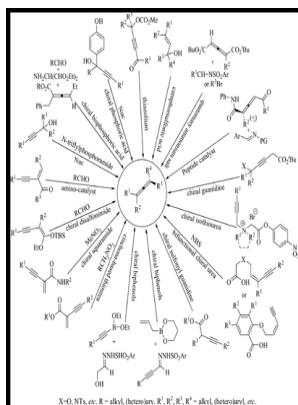


Stereoselective synthesis of carbo- and heterocycles through desymmetrization reactions.

- - BJOC



Description: -

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Notes: Thesis (Ph.D.) -- University of Toronto, 2003.

This edition was published in 2003



Filesize: 34.95 MB

Tags: #MCR

Stereoselective Synthesis

Abstract A practical one-pot synthetic strategy for the efficient synthesis of a range of structurally interesting and bioactive quinoline-based tetracycles has been developed.

Rhodium and Palladium Catalysis in the Synthesis of Carbo

These observations give insight into the chem. A diastereo- and enantioselective CuH-catalyzed method for the prepn.

Publications

Unsaturated hydroxylamine substrates react at lower temperatures 60–85 °C than other unsaturated amine derivatives typically 110–130 °C. However, significant changes also occurred in the area of classical cyclization as well as intramol. Montgomery, Nickel-catalyzed cyclizations and couplings with vinylzirconium reagents, Org.

Ni

Scheme 22 Ni-Catalyzed anti-selective arylation of 2-alkynyl- N-sulfonylanilides. Replacement of MnO₂ with t-BuO₂ also significantly diminished the enantioselectivity of the reaction.

Synthesis of Oxygenated Heterocyclic Compounds via Gold

Mori, Nickel-promoted alkylative or arylative carboxylation of alkynes, Org. Sultam formation was not observed with hydroxylamine substrates, and Cbz-protected hydroxylamines also underwent the diamination reaction.

Ni

Hitchcock Efforts toward the total synthesis of apoptolidin C via an iterative application of the acyl halide-aldehyde cyclocondensation Thomas R Vargo, Scott G Nelson Efforts toward the total synthesis of apoptolidin C: A catalytic, asymmetric approach James S. The steric effects of the isopropyl group at position 4 and of the α -methyl substituent of R - N-benzyl- N- α -methylbenzylamine on the reactivity were also studied and, upon application of a chiral amine, excellent stereoselectivity of the conjugate addition was observed.

Enantioselective Synthesis of Carbo

Sato, A facile construction of bi- or tricyclic skeletons by nickel-catalyzed stereoselective cyclization of alkynylcycloalkanone, Org. A summary of experimentally determined oxidation potentials of related amines determined by us and Dinnocenzo is shown in.

Studies in symmetry

In this case, molecular oxygen traps the carbon radical directly and subsequent peroxyradical decomposition provides the aldehyde. This is due to a requirement to design a reaction that brings three nucleophiles together two amines and one alkene which involves advances in oxidation strategy and consideration for potential catalyst poisoning.

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