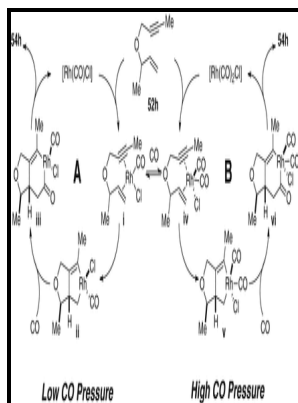


# Stereoselective synthesis of carbo- and heterocycles through desymmetrization reactions.

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Description: -

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

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## Stereoselective synthesis of pentasubstituted 1,3

Nature Chemistry 2018, 10 4 , 383-394. Cheng, Highly selective nickel-catalyzed three-component coupling of alkynes with enones and alkenyl boronic acids: a novel route to substituted 1,3-dienes, Org. A stoichiometric oxidant to turn over the catalyst is required to perform these net oxidative reactions.

## Catalytic Enantioselective Desymmetrization Reactions to All

Then, selective protonation of 46 by alcohol would afford the conjugated dienylnickel species 47, which could undergo a reversible cis—trans isomerization to produce a new dienylnickel intermediate 48. Organic Letters 2019, 21 7 , 2156-2160.

## Enantioselective Synthesis of Carbo

As a further extension of this process, we explored the use of substrates with heteroatoms in the tether for the preparation of enantioenriched, saturated heterocycles. Thus, during preliminary investigations, a range of alkoxide bases were evaluated.

## Stereoselective synthesis of pentasubstituted 1,3

Organocatalytic Hantzsch Type Reaction Using Aryl Hydrazines, Propiolic Acid Esters and Enals: Enantioselective Synthesis of Paroxetine. MCR Abstract It is shown that N-alkyl-substituted ketenimine derivatives can be efficiently prepared by the three-component coupling of electron-deficient alkynes, oximes, and isocyanides. Organic synthesis provides opportunities to transform drug discovery.

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These novel scaffolds showed potent and selective T-type Ca<sup>2+</sup> channel blocking activities. Catalytic Enantioselective Aminohalogenation The enantiomerically enriched carbon radical intermediates formed in these reactions can also participate in atom-transfer reactions with halogen and hydrogen atom donors to enable net aminohalogenation and hydroamination reactions, respectively.

### **Stereoselective synthesis of pentasubstituted 1,3**

Taken together, these data are consistent with a rate-determining and enantiodetermining cis-aminocupration transition state. Anderson for assistance with the cover.

### **Enantioselective Synthesis of Carbo**

Transition-metal-catalyzed difunctionalization of alkynes which is the syn- or anti-selective introduction of two functional groups across the triple bond represents one of the most straightforward and powerful approaches for assembling stereodefined tri- and tetrasubstituted alkenes.

### **Enantioselective Synthesis of Carbo**

JACS, 1993, 115, 1593-1594 ; 3. More important molecule structures can be obtained by subsequent modifications. Montgomery, Nickel-catalyzed reductive cyclizations and couplings, Angew.

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