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## **Asymmetric Synthesis The Chiral Carbon**

Asymmetric Synthesis, Volume 4: The Chiral Carbon Pool and Chiral Sulfur, Nitrogen, Phosphorus, and Silicon Centers describes the practical methods of obtaining chiral fragments. Divided

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into five chapters, this book specifically examines initial chiral transmission and extension.

## **Asymmetric Synthesis | ScienceDirect**

A practical sequence involving a noncryogenic stereospecific boronate rearrangement followed by a robust

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formylation with an in situ generated DCM anion has been developed for the asymmetric construction of an all-carbon quaternary stereogenic center of a FLAP inhibitor. The key boronate rearrangement was rendered noncryogenic and robust by using LDA as the base and instituting an in situ ...

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**Development of an Asymmetric  
Synthesis of a Chiral ...**

A chapter describes the alkylation of chiral hydrazones, a process that yields chiral-substituted aldehydes and ketones. Other chapters explore a variety of cyclization processes that form carbon-carbon and carbon-heteroatom bonds. The last chapters

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deal with the asymmetric cycloadditions and sigma-tropic rearrangements.

## **Asymmetric Synthesis | ScienceDirect**

Synthesis of Chiral Triarylmethanes  
Bearing All-Carbon Quaternary  
Stereocenters: Catalytic Asymmetric  
Oxidative Cross-Coupling of



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2,2-Diarylacetonitriles and  
(Hetero)arenes Zehua Wang School of  
Chemistry and Chemical Engineering,  
Shandong University, Jinan, 250100 P. R.  
China

## **Synthesis of Chiral Triarylmethanes Bearing All-Carbon ...**

Combination of Chiral Carbon

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Electrophiles with Carbon Nucleophiles  
Asymmetric nucleophilic catalysts can be used to generate chiral electrophiles. The union of these with prochiral carbon nucleophiles represents a promising catalytic approach to the synthesis of all-carbon quaternary stereocenters (Scheme 9). In reactions of this type, a chiral

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## **Catalytic asymmetric synthesis of all-carbon quaternary ...**

Chiral catalysts can be applied in asymmetric synthesis such as alkylation, Diels-Alder reaction, asymmetric reduction, hydroformylation, epoxidation, dihydroxylation. The relationship between the chiral catalyst

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and the reaction system is just like the relationship between the lock and the key, which is highly selective.

## **Chiral Synthesis - BOC Sciences Solutions**

$\alpha$ -Chiral primary amines are one among the most valuable and versatile building blocks for the synthesis of numerous

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amine-containing pharmaceuticals and natural compounds. They also serve as chiral ligands or organo-catalysts for asymmetric catalysis. However, most of the existing chemocatalytic methods toward enan

**Direct catalytic asymmetric  
synthesis of  $\alpha$ -chiral primary ...**

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Enantioselective synthesis, also called asymmetric synthesis, is a form of chemical synthesis. It is defined by IUPAC as: a chemical reaction (or reaction sequence) in which one or more new elements of chirality are formed in a substrate molecule and which produces the stereoisomeric (enantiomeric or diastereoisomeric) products in unequal

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amounts.. Put more simply: it is the synthesis of a ...

## **Enantioselective synthesis - Wikipedia**

An asymmetric synthesis of chiral dihydropyridine calcium channel blockers Chen-Yu Cheng, and Mei-Jing Lee and Jy-Yih Chen Institute of

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Pharmaceutical Sciences, National  
Taiwan University, 1, Sec. 1, Jen-Ai Road,  
Taipei, Taiwan 10018

## **An asymmetric synthesis of chiral dihydropyridine calcium ...**

Synthetically, the efficient introduction  
of a sterically congested quaternary  
carbon center, especially in a catalytic



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fashion, is one of the main challenges in the asymmetric synthesis of ...

## **Enantioselective synthesis of cis-hydrobenzofurans ...**

Abstract In catalytic asymmetric reactions, the formation of chiral molecules generally relies on a direct chirality transfer (point or axial chirality)

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from a chiral catalyst to products in  
the...

**Transient-axial-chirality controlled  
asymmetric rhodium ...**

Combination of Chiral Carbon  
Electrophiles with Carbon Nucleophiles  
Asymmetric nucleophilic catalysts can  
be used to generate chiral electrophiles.

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The union of these with prochiral carbon nucleophiles represents a promising catalytic approach to the synthesis of all-carbon quaternary stereocenters (Scheme 9).

## **Catalytic asymmetric synthesis of all-carbon quaternary ...**

this is the part II of asymmetric

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reduction of carbonyl compounds. in this video I have explained how to reduce carbon compounds asymmetricly using TsDPEN auxiliary # ...

## **Asymmetric synthesis| Asymmetric Reduction of Carbonyl compounds- II | TsDPEN auxiliary**

Here, an efficient method for the

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synthesis of chiral trifluoromethylated bis(3-indolyl)methanes via a catalytic asymmetric Friedel-Crafts (F-C) alkylation reaction has been established. Both enantiomers of the catalysis products can be obtained by tuning the chiral substituents of the catalyst.

## **Synthesis of Chiral**

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## **Bis(3-indolyl)methanes Bearing a ...**

N-arylated  $\alpha$ -amino acids and pyrazolidin-3-ones are widely being used as chiral building blocks for pharmaceuticals and agrochemicals. Here we report a biocatalytic route for the asymmetric synthesis of various N-arylated aspartic acids applying ethylenediamine-N,N'-disuccinic acid

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lyase (EDDS lyase) as a biocatalyst.

**Biocatalytic Asymmetric Synthesis  
of N-Aryl-Functionalized ...**

The Enders SAMP/RAMP hydrazone alkylation reaction is an asymmetric carbon-carbon bond formation reaction facilitated by pyrrolidine chiral auxiliaries. It was pioneered by E. J.

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Corey and D. Enders in 1976, and was further developed by D. Enders and his group. This method is usually a three-step sequence.

## **Enders SAMP/RAMP hydrazone-alkylation reaction - Wikipedia**

A chiral molecule or ion must have at least one chiral center or stereocenter.



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[dubious - discuss] When that center coincides with an atom, the substance is said to have point chirality. In chiral organic compounds, a stereocenter is often an asymmetric carbon. Multiple stereocenters may give rise to additional stereoisomers.

**Chirality (chemistry) - Wikipedia**

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Pseudoephedrine: A Practical Chiral Auxiliary for Asymmetric Synthesis  
Marvin R. Morales, Kevin T. Mellem, and Andrew G. Myers\* Pseudoephedrine is widely employed as a chiral auxiliary in diastereoselective alkylation reactions, providing ready access to enantiomerically enriched carboxylic acids, aldehydes, ketones, and

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