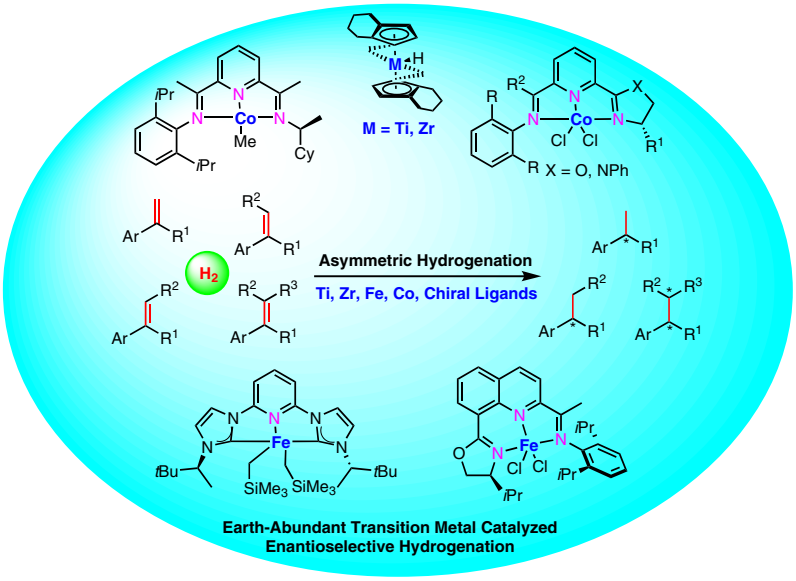
Synthesis

Reviews and Full Papers in Chemical Synthesis

April 4, 2023 • Vol. 55, 1007–1158



Earth-Abundant Transition Metal Catalyzed Asymmetric Hydrogenation of Minimally Functionalized Alkenes

P. Lu, Z. Lu

7

Thieme

Synthesis

Reviews and Full Papers in Chemical Synthesis

2023
Vol. 55, No. 7
April I

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Synthesis

Synthesis **2023**, *55*, 1007–1041
DOI: 10.1055/s-0042-1751418

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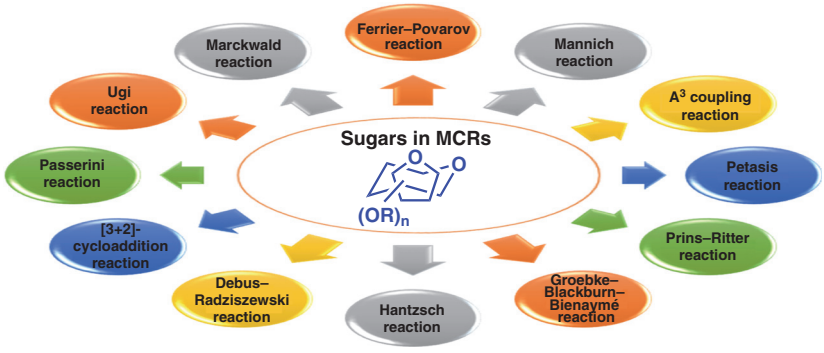
Sugars in Multicomponent Reactions: A Toolbox for Diversity-Oriented Synthesis

Review



Synthesis

Synthesis **2023**, *55*, 1042–1052
DOI: 10.1055/a-2000-8183

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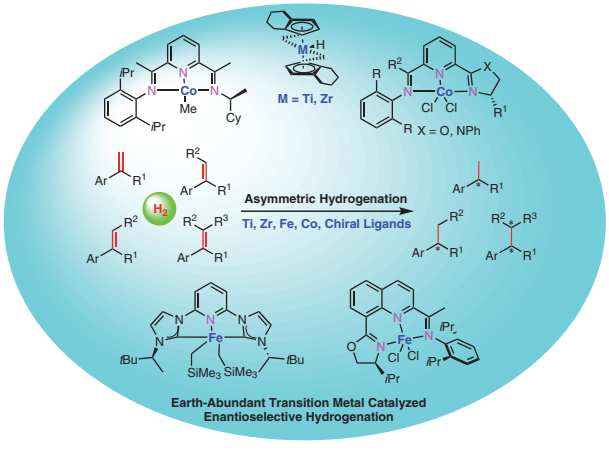
Earth-Abundant Transition Metal Catalyzed Asymmetric Hydrogenation of Minimally Functionalized Alkenes

Short Review



Synthesis

Synthesis of Chiral Primary Amines via Enantioselective Reductive Amination: From Academia to Industry

Short Review

1053

Synthesis **2023**, *55*, 1053–1068
DOI: 10.1055/a-2002-5733

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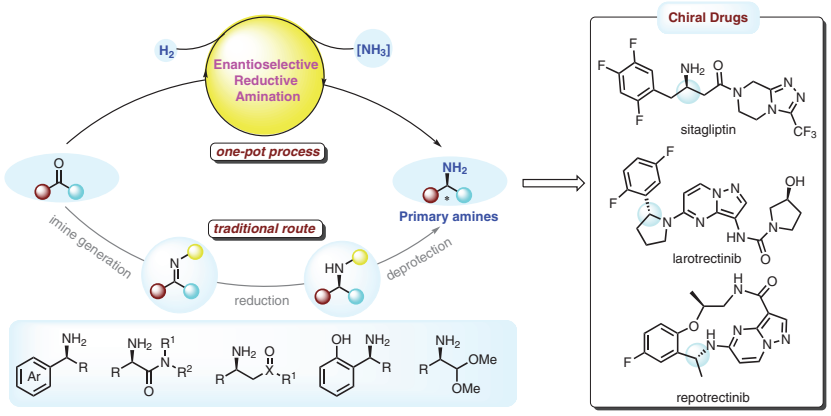

Synthesis

Silver-Catalyzed Ring Expansion of Activated N-Heteroarenes via 1,4-Dearomative Addition of Diazomethylphosphonates

Feature

1069

Synthesis **2023**, *55*, 1069–1078
DOI: 10.1055/a-2004-1279

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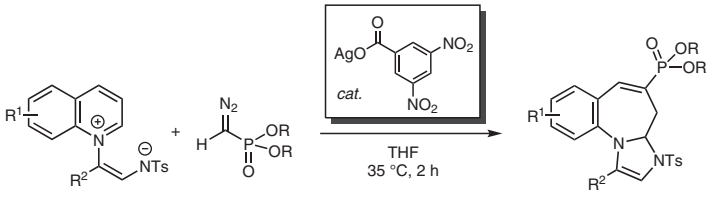

Synthesis

Hydroamination of Carbodiimides Catalyzed by Lithium Triethylborohydride

Paper

1079

Synthesis **2023**, *55*, 1079–1086
DOI: 10.1055/a-1979-8930

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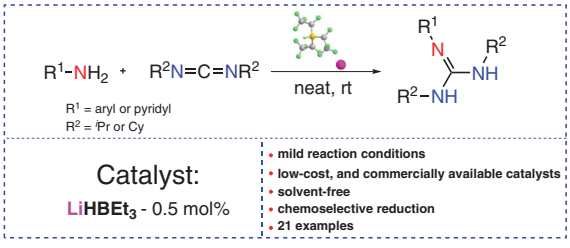

Synthesis

Synthesis of the Three Most Expensive L-Hexose Thioglycosides from D-Glucose

Paper

1087

Synthesis **2023**, *55*, 1087–1111
DOI: 10.1055/s-0042-1751394

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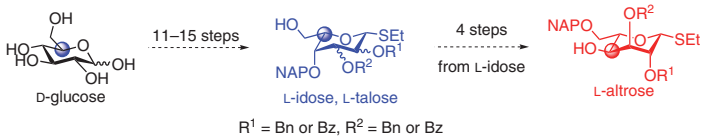

Synthesis

Benzo-Fused 7-Oxabicyclo[2.2.1]heptane-2,3-diol Derivatives as Universal Linkers for Solid-Phase Oligonucleotide Synthesis

Paper

1112

Synthesis **2023**, *55*, 1112–1122
DOI: 10.1055/s-0042-1751405

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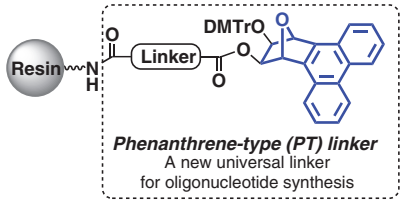

Synthesis

Samarium-Promoted Homocoupling of Benzaldehydes and In Situ Condensation with Esters Under the Catalysis of Cuprous Iodide

Paper

1123

Synthesis **2023**, *55*, 1123–1129
DOI: 10.1055/a-1983-3890

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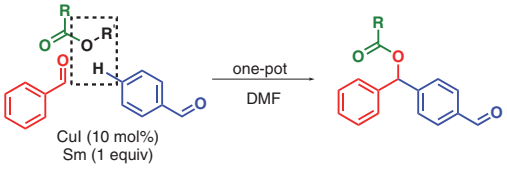

Synthesis

Synthesis **2023**, *55*, 1130–1138
DOI: 10.1055/a-1970-8229

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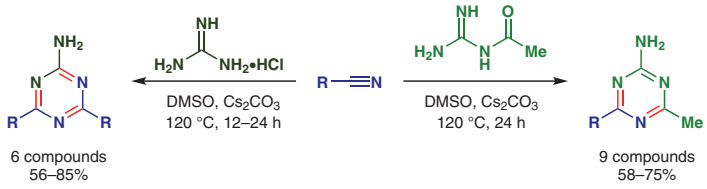
Practical One-Pot Synthesis of 4,6-Bis(hetero)aryl- and 4-(Hetero)aryl-6-methyl-substituted 1,3,5-Triazin-2-amines

Paper

1130



6 compounds
56–85%

9 compounds
58–75%

- ✓ **One-pot reactions**
- ✓ **Readily avaliable commercial starting materials**
- ✓ **Avoidance of handling and safety issues by employing mild and user-friendly base**
- ✓ **First synthesis of 4-(hetero)aryl-6-methyl-substituted 1,3,5-triazin-2-amines**

Synthesis

Synthesis **2023**, *55*, 1139–1149
DOI: 10.1055/s-0042-1751392

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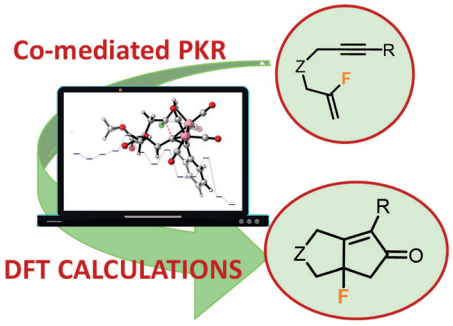
A Density Functional Theory Study on the Cobalt-Mediated Intramolecular Pauson–Khand Reaction of Enynes Containing a Vinyl Fluoride Moiety

Paper

1139



Synthesis

Synthesis **2023**, *55*, 1150–1158
DOI: 10.1055/s-0042-1751770

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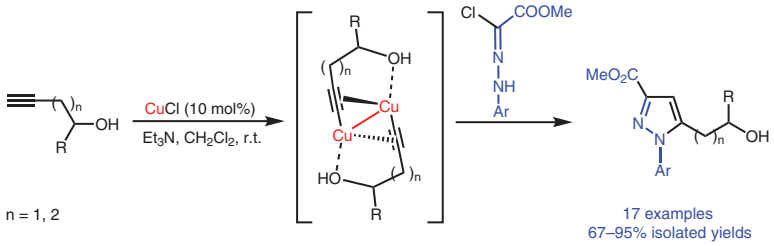
Copper(I)-Catalysed Reaction of Hydrazonyl Chlorides with Homopropargylic Alcohols: Regioselective Synthesis of 5-Substituted Pyrazoles

Paper

1150



n = 1, 2

17 examples
67–95% isolated yields