

Synthesis

Reviews and Full Papers in Chemical Synthesis

March 1, 2023 • Vol. 55, 707–856



Disilathiane as a Sulfur Source for the Construction of Isothiochromenes and Benzo[*b*]thiophenes by Copper-Catalyzed *endo*-Selective Hydrothiolation

T. Nakajima, R. Takeuchi, K. Oomori, K. Ishida, Y. Ogiwara, N. Sakai

5



Thieme

Synthesis

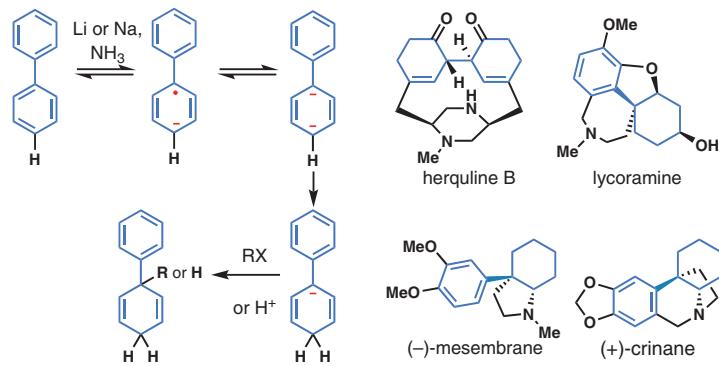
Mechanistic and Synthetic Studies of Biaryl Birch Reductions

Short Review

707

Synthesis 2023, 55, 707–718
DOI: 10.1055/s-0042-1751387

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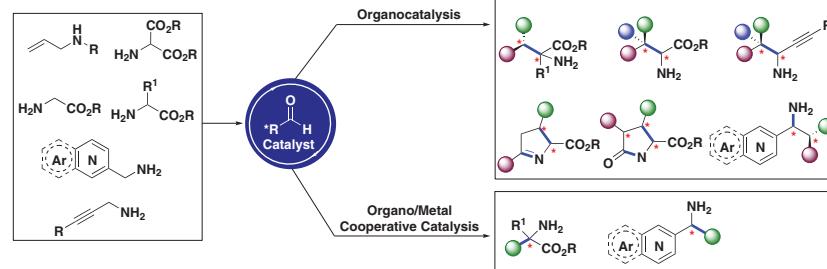
Recent Advances in Chiral Aldehyde Catalysts for Asymmetric Functionalization of Amines

Short Review

719

Synthesis 2023, 55, 719–732
DOI: 10.1055/a-1973-4292

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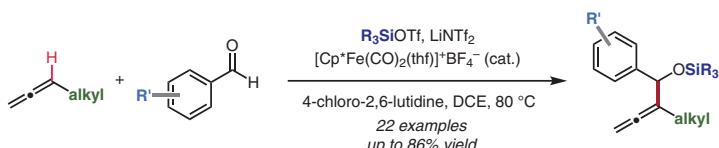
Synthesis

Synthesis 2023, 55, 733–743
DOI: 10.1055/a-2004-0951

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Synthesis of 1,1-Disubstituted Allenic Silyl Ethers through Iron-Catalyzed Regioselective C(sp²)–H Functionalization of Allenes**Feature**

733



- Direct C–H functionalization of simple allenes
- Access to 1,1-disubstituted allenic alcohols

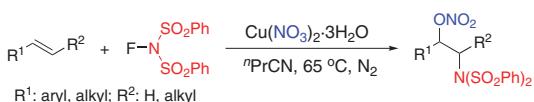
Synthesis

Synthesis 2023, 55, 744–754
DOI: 10.1055/a-1942-7033

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Copper Nitrate Mediated Regioselective Difunctionalization of Alkenes with N-Fluorobenzenesulfonimide: A Direct Approach to β -Aminonitrotes**Paper**

744



- | | |
|----------------------------|-----------------------------------|
| • Aminonitrate synthesis | • Readily available reagents |
| • Mild reaction conditions | • Good functional group tolerance |

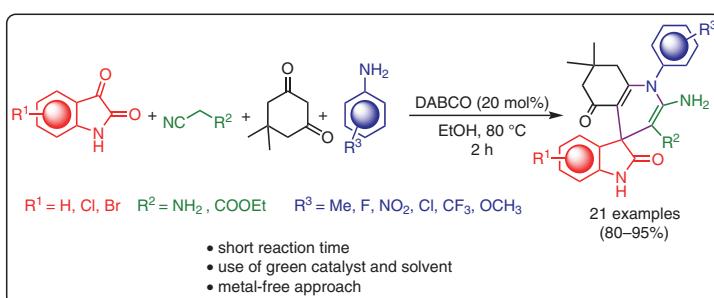
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Synthesis 2023, 55, 755–764
DOI: 10.1055/a-1948-2677

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A New Avenue to One-Pot Four-Component Synthesis of Spiro[indoline-3,4'-quinoline] Derivatives Using DABCO as a Green Catalyst**Paper**

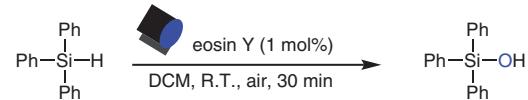
755



Synthesis 2023, 55, 765–772
DOI: 10.1055/a-1944-9718

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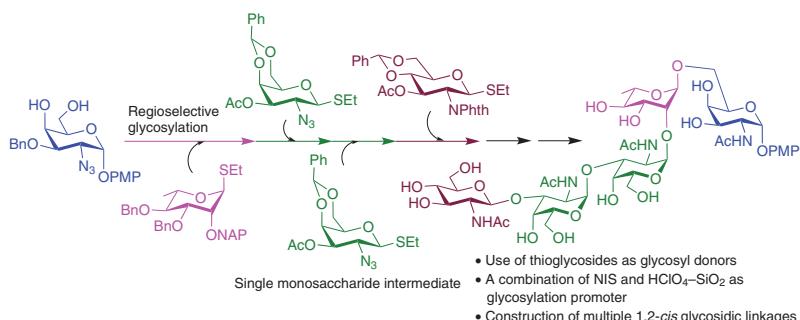
Yunnan Key Laboratory of Tobacco Chemistry, P. R. of China
Hunan Agricultural University,
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- mild conditions
- operational simplicity
- transition-metal-free
- O₂ as oxidant
- new Si–O bond formation
- visible light

Synthesis 2023, 55, 773–778
DOI: 10.1055/s-0041-1738428

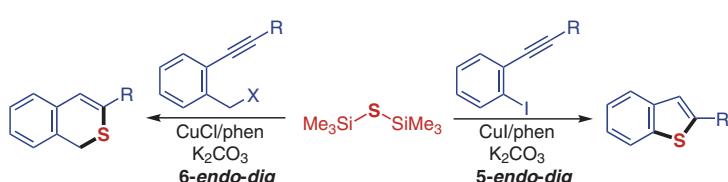
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- Use of thioglycosides as glycosyl donors
- A combination of NIS and HClO₄–SiO₂ as glycosylation promoter
- Construction of multiple 1,2-cis glycosidic linkages

Synthesis 2023, 55, 779–785
DOI: 10.1055/a-1953-4534

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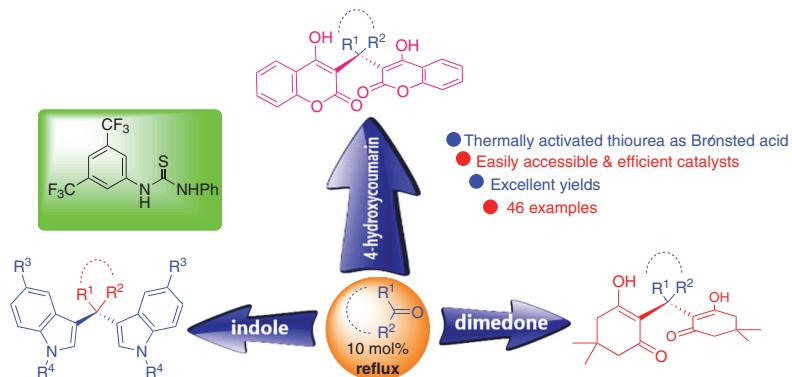
Synthesis 2023, 55, 786–798
DOI: 10.1055/a-1947-5871

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Thermally Activated Aryl Thioureas as Brønsted Acid Catalysts for C–C Bond Forming Reactions: Synthesis of Symmetrical Trisubstituted Methanes**Paper**

786

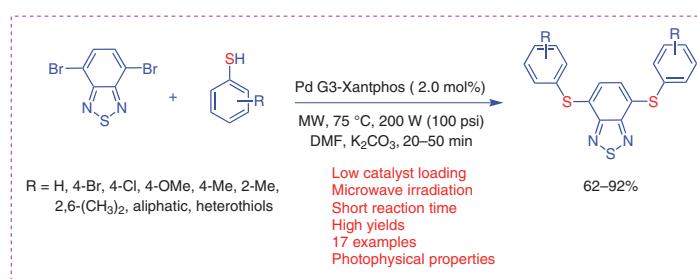
**Synthesis**

Synthesis 2023, 55, 799–807
DOI: 10.1055/a-1958-4406

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Pd-G3 XantPhos Mediated Approach to Bis-arylsulfenyl-benzo-2,1,3-thiadiazoles under Microwave Irradiation in DMF: Synthesis and Fluorescent Properties**Paper**

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**Synthesis**

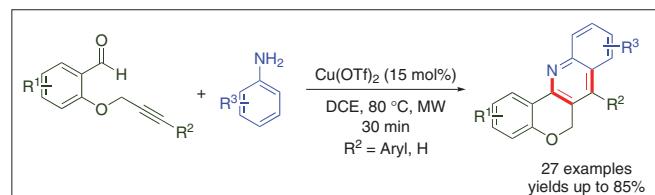
Synthesis 2023, 55, 808–820
DOI: 10.1055/s-0041-1738429

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Microwave-Assisted Domino Povarov-Type [4+2] Cycloaddition: A Rapid Access to 7-Phenyl-6*H*-chromeno[4,3-*b*]quinolines**Paper**

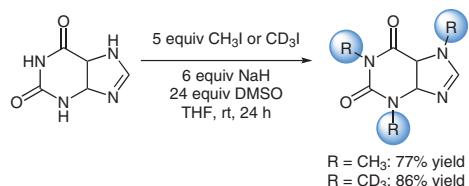
808



Synthesis 2023, 55, 821–825
DOI: 10.1055/a-1972-3819

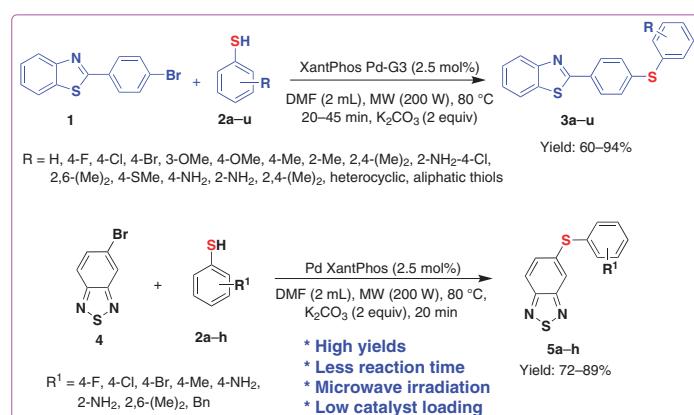
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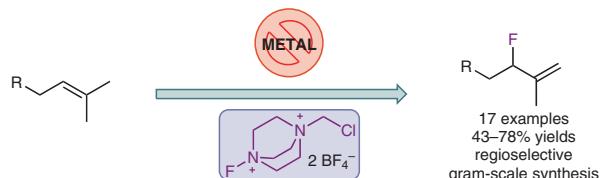
Synthesis 2023, 55, 826–836
DOI: 10.1055/a-1976-4931

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Synthesis 2023, 55, 837–845
DOI: 10.1055/a-1961-8013

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