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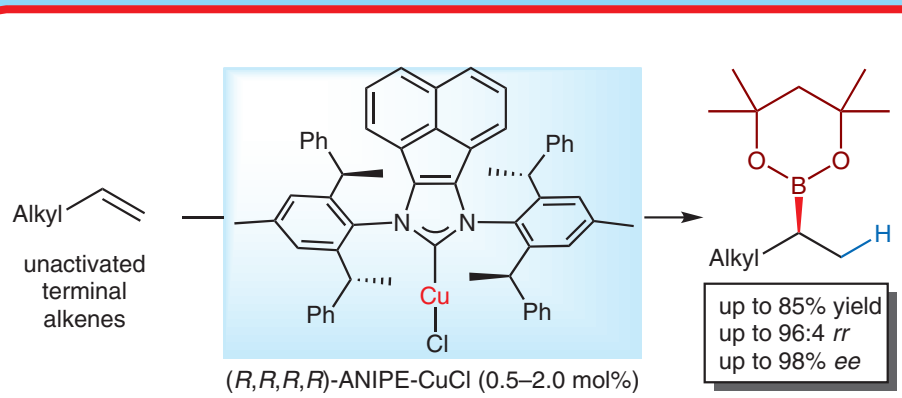
Accounts and Rapid Communications in Chemical Synthesis

April 1, 2021 • Vol. 32, 539–640



ANIPE-Cu Catalyst Enables Highly Enantioselective Markovnikov Hydroboration of α-Olefins

Y. Cai, S.-L. Shi

6

Thieme

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Accounts and
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2021
Vol. 32, No. 6
April I

Synlett

Halonium Catalysis: An Underutilized and Underexplored Catalytic Concept in Olefin Functionalizations

Synpacts

539

Synlett **2021**, *32*, 539–544
DOI: 10.1055/a-1277-8669

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E. Cheng
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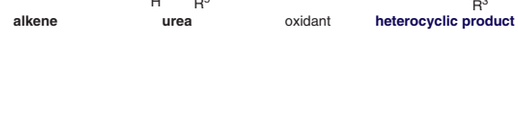

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ANIPE-Cu Catalyst Enables Highly Enantioselective Markovnikov Hydroboration of α-Olefins

Synpacts

545

Synlett **2021**, *32*, 545–550
DOI: 10.1055/a-1288-2990

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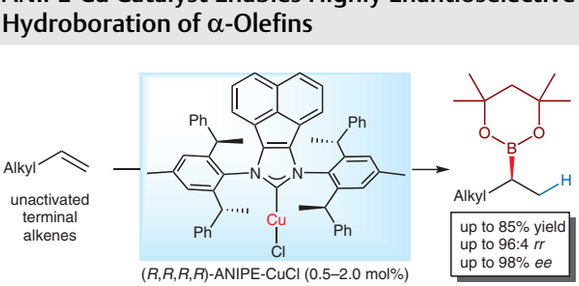

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Carbenoid-Mediated Homologation Tactics for Assembling (Fluorinated) Epoxides and Aziridines

Account

551

Synlett **2021**, *32*, 551–560
DOI: 10.1055/s-0040-1706404

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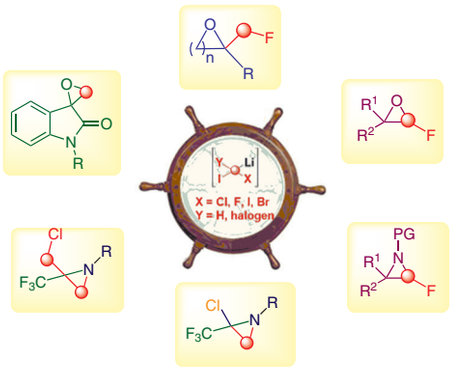

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Designing Rh(I)-Half-Sandwich Catalysts for Alkyne [2+2+2] Cycloadditions

Account

561

Synlett **2021**, *32*, 561–572
DOI: 10.1055/s-0040-1707284

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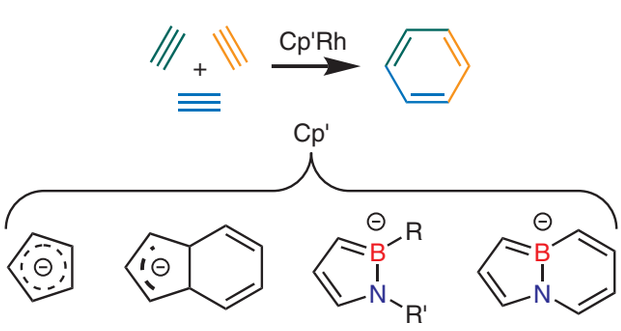

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Strategy for the Use of Molecular Oxygen in Organic Synthesis

Account

573

Synlett **2021**, *32*, 573–581
DOI: 10.1055/s-0040-1707240

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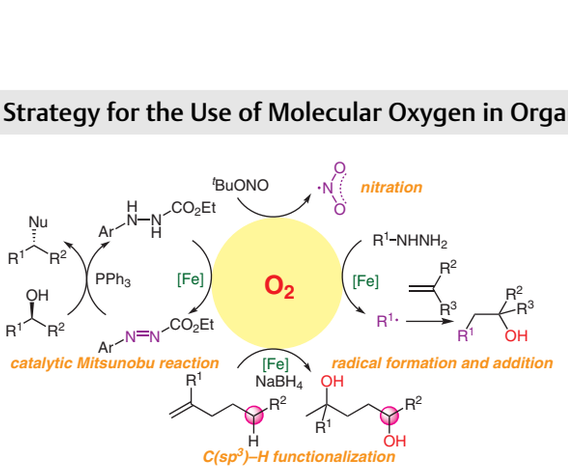

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Synlett **2021**, *32*, 582–586
DOI: 10.1055/a-1304-4575

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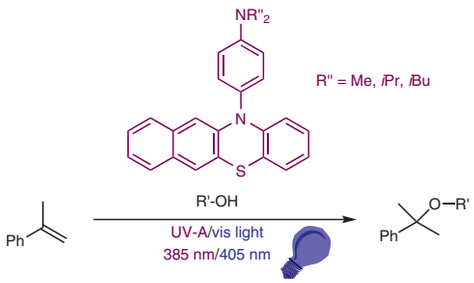
N-Arylbenzo[*b*]phenothiazines as Reducing Photoredox Catalysts for Nucleophilic Additions of Alcohols to Styrenes: Shift towards Visible Light

Letter

582



Synlett

Synlett **2021**, *32*, 587–592
DOI: 10.1055/a-1323-2389

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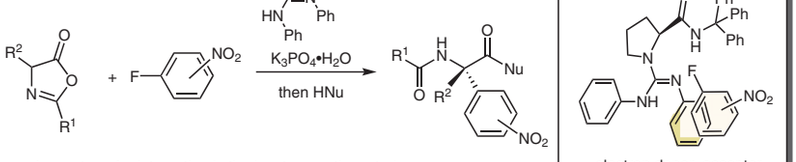
Enantioselective Nucleophilic Aromatic Substitution Reaction of Azlactones to Synthesize Quaternary α-Amino Acid Derivatives

Letter

587



- a charge-transfer interaction is the key to enantiocontrol
- rapid construction of chiral quaternary α-amino acid esters and peptides
- 25 examples, up to 99% yield, 99:1 dr, and 93% ee

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Synlett **2021**, *32*, 593–600
DOI: 10.1055/a-1335-7902

Y.-Z. Pan
S.-Y. Cheng
Q.-Y. Li
H.-T. Tang
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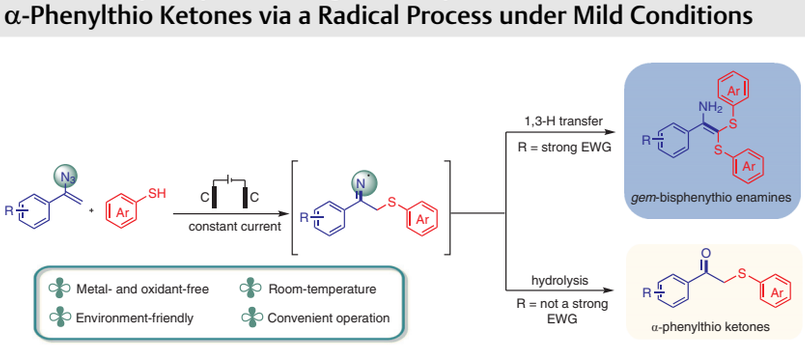
Electrocatalytic Synthesis of *gem*-Bisarylthio Enamines and α-Phenylthio Ketones via a Radical Process under Mild Conditions

Letter

593



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Synlett **2021**, *32*, 601–604
DOI: 10.1055/a-1308-0370

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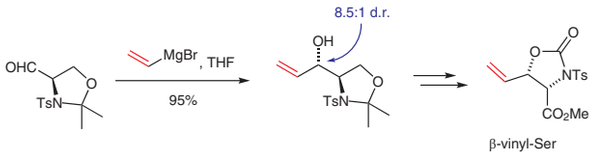
Stereoselective Synthesis of (4*S*,5*S*)-5-Vinyloxazolidin-2-one-4-carboxylate as a β-Vinylserine Synthetic Equivalent by Vinyl Grignard Addition to an *N*-Tosyl Version of Garner's Aldehyde



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Synlett **2021**, *32*, 605–610
DOI: 10.1055/s-0040-1705974

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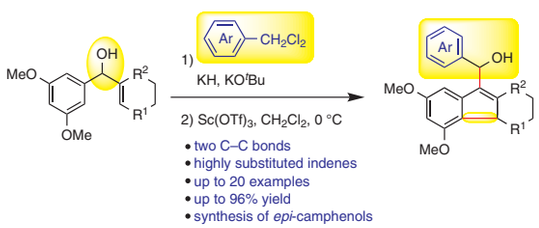
Scandium Triflate Catalyzed Nazarov Cyclization of Arylvinyl Epoxides Derived from Alkoxides and Chloro(aryl)carbenes: A Facile Access to Resveratrol-Derived Natural Products



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Synlett **2021**, *32*, 611–615
DOI: 10.1055/s-0040-1706641

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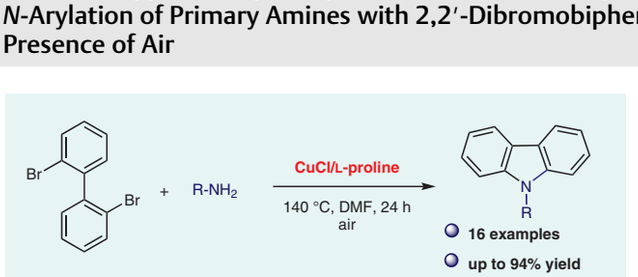
Efficient Copper-Catalysed Synthesis of Carbazoles by Double *N*-Arylation of Primary Amines with 2,2′-Dibromobiphenyl in the Presence of Air



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Synlett **2021**, *32*, 616–620
DOI: 10.1055/a-1290-8469

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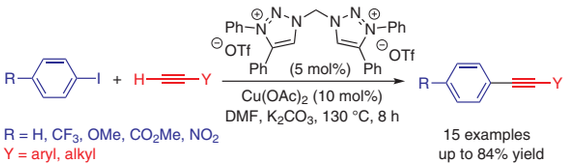
A Palladium-Free Sonogashira Coupling Protocol Employing an In Situ Prepared Copper/Chelating 1,2,3-Triazolylidene System

Letter



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Synlett **2021**, *32*, 621–625
DOI: 10.1055/a-1308-3773

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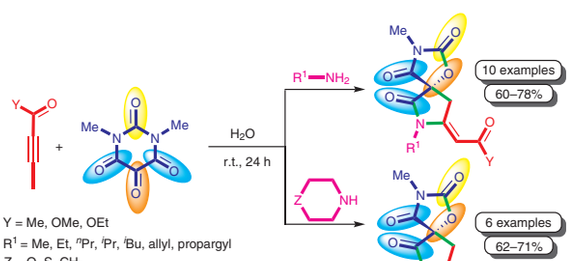
Synthesis of Spiro Oxazolidinedione Analogues Based on Tandem Multicyclizations of 1,3-Dimethylalloxan and Enaminones in Water

Letter



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Synlett **2021**, *32*, 626–630
DOI: 10.1055/a-1327-6388

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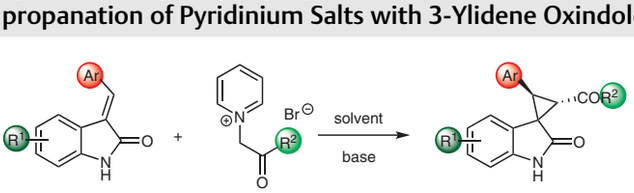
Synthesis of Spirocyclopropane Oxindoles *via* Michael-Initiated Cyclopropanation of Pyridinium Salts with 3-Ylidene Oxindoles

Letter



19 examples, up to 99% yield

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Synlett **2021**, *32*, 631–635
DOI: 10.1055/s-0040-1706638

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Synthesis of Diarylethynes from Aryldiazonium Salts by Using Calcium Carbide as an Alkyne Source in a Deep Eutectic Solvent

Letter

631

Synlett

Synlett **2021**, *32*, 636–640
DOI: 10.1055/a-1343-5455

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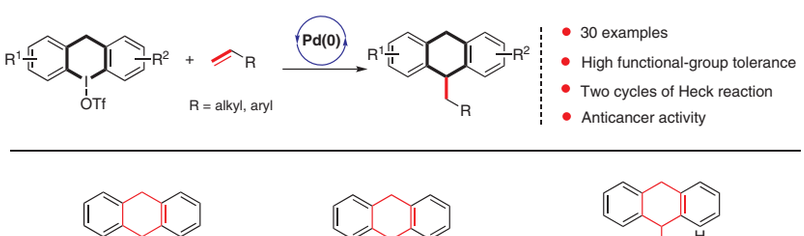
Synthesis of Dihydroanthracenes *via* Palladium-Catalyzed Tandem Mizoroki–Heck/Reductive Heck Reactions Using Cyclic Diaryliodoniums and Alkenes

Letter

636



PANC-1 IC_{50} = 11.74 μM

PANC-1 IC_{50} = 16.37 μM

HCT116 IC_{50} = 19.68 μM