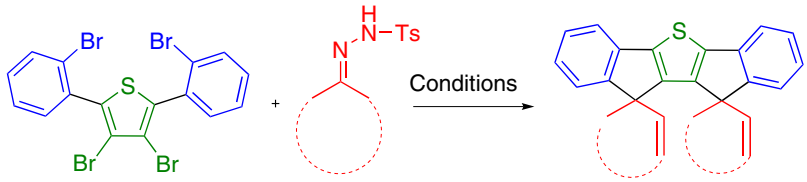
Synlett

Accounts and Rapid Communications in Chemical Synthesis

October 5, 2022 • Vol. 33, 1575–1674



Pd_2dba_3 (2 mol%), XPhos (4 mol%), Li^{t}BuO (8 equiv.), 1,4-dioxane, 100 °C, 48 h
5 examples, 51–99%, diastereoselectivity: 2:1 to 99:1

Synthesis of Spirocyclic Diindeno[1,2-b:2′,1′-*d*]thiophenes

E. Ammon, A. Villinger, P. Ehlers, P. Langer

16

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Rapid Communications
in Chemical Synthesis

2022
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October I

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Visible-Light-Induced Organocatalyzed [2+1] Cyclization of Alkynes and (Trifluoroacetyl)silanes

Synpacts

1575

Synlett **2022**, *33*, 1575–1581
DOI: 10.1055/a-1840-5199

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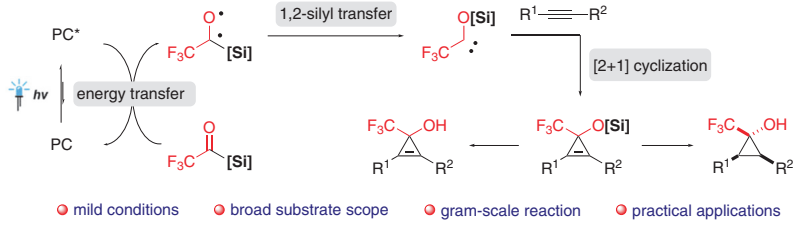

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Electrochemical C–H Functionalization of Cyclic Amines

Synpacts

1582

Synlett **2022**, *33*, 1582–1588
DOI: 10.1055/a-1828-1217

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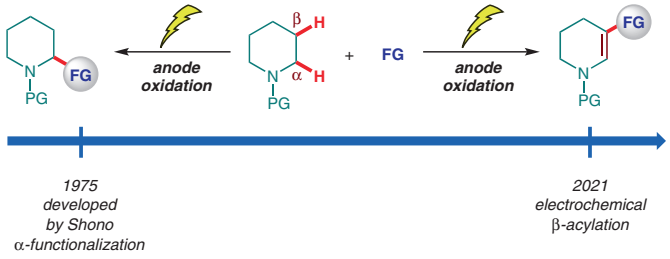

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Synlett **2022**, *33*, 1589–1595
DOI: 10.1055/a-1833-8979

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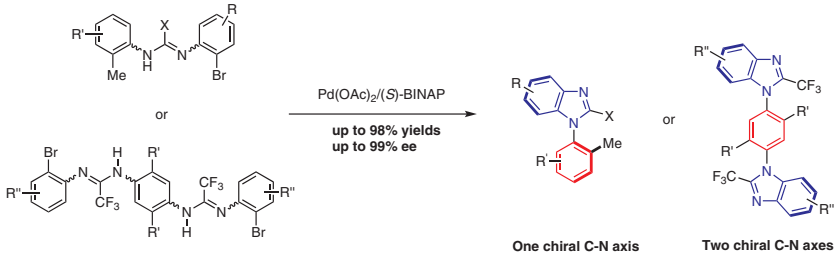
Enantioselective Synthesis of Axially Chiral Benzimidazoles Bearing a C–N axis via Pd-Catalyzed Buchwald–Hartwig Amination

Synpacts

1589



Synlett

Synlett **2022**, *33*, 1596–1606
DOI: 10.1055/s-0041-1738384

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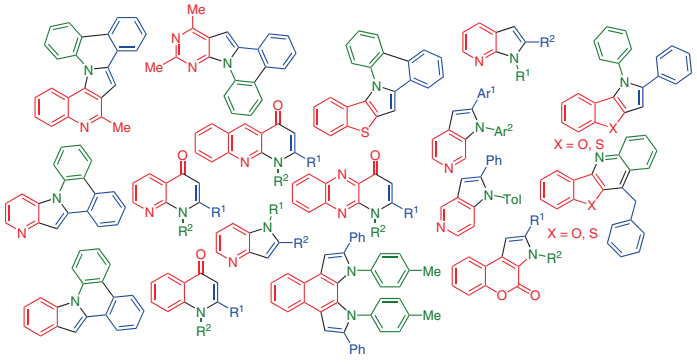
Synthesis of Nitrogen Heterocycles by Domino C–N Coupling/Hydroamination Reactions

Account

1596



Synlett

Synlett **2022**, *33*, 1607–1618
DOI: 10.1055/a-1874-3463

Z. Yu
L. Wang
L. Liu
M. Wang
H. Yang*
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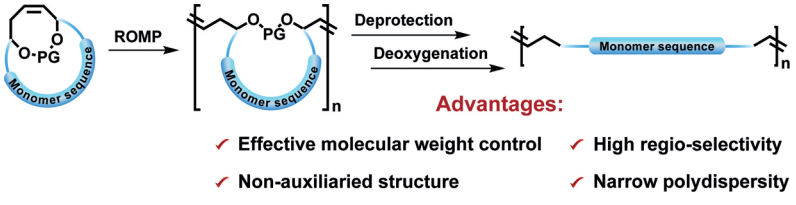
No Sacrifice No Gain: Construction of Cleavable Bridged Macrobicyclic Olefins for Precision Polymers

Account

1607



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Synlett **2022**, *33*, 1619–1624
DOI: 10.1055/s-0040-1719931

Asymmetric Construction of Highly Functionalized Cyclobutanones Bearing Three Contiguous Stereogenic Centers by an Amino Acid Salt-Catalyzed Desymmetrization Reaction

Letter

1619

J. Wu
F. Bao
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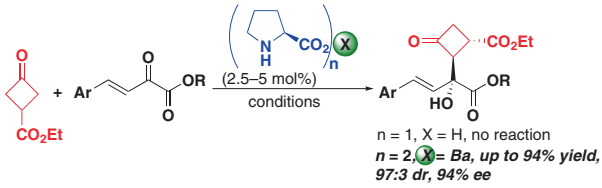
Wenzhou Medical University, P. R. of China



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Synlett **2022**, *33*, 1625–1628
DOI: 10.1055/s-0041-1738670

Synthetic Studies toward Australifungin

Letter

1625

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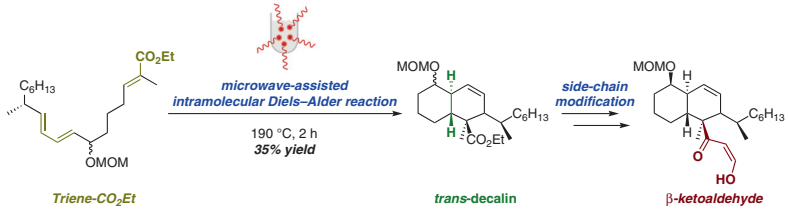

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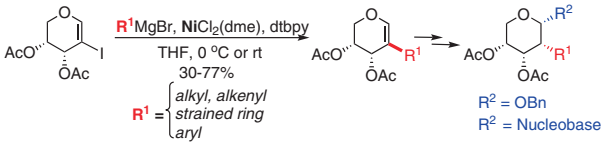
Synlett **2022**, *33*, 1629–1632
DOI: 10.1055/s-0041-1738669

Synthesis of 2-*C*-Substituted 5-Deoxyglucals from D-Ribose: Access to 2-*C*-Substituted 5-Deoxyglycosides and -Nucleosides

Letter

1629

P. Polak
J. Cossy*
PSL University, France



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Synlett **2022**, *33*, 1633–1636
DOI: 10.1055/s-0042-1751363

Synthesis of Spirocyclic Diindeno[1,2-*b*:2′,1′-*d*]thiophenes

Letter

1633

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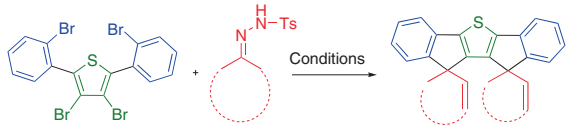
A. Villinger
P. Ehlers
P. Langer*
Universität Rostock, Germany



Pd_2dba_3 (2 mol%), XPhos (4 mol%), Li^{t}BuO (8 equiv.), 1,4-dioxane, 100 °C, 48 h
5 examples, 51–99%, diastereoselectivity: 2:1 to 99:1

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Synlett **2022**, *33*, 1637–1644
DOI: 10.1055/s-0042-1751366

Pd/RHA and Pd/BPA as Eco-Friendly Heterogeneous Catalysts: Microwave-Assisted C–S Cross-Coupling Reaction in DMF

Letter

1637

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T. B. Goulart
D. S. Rosa
G. R. Rosa
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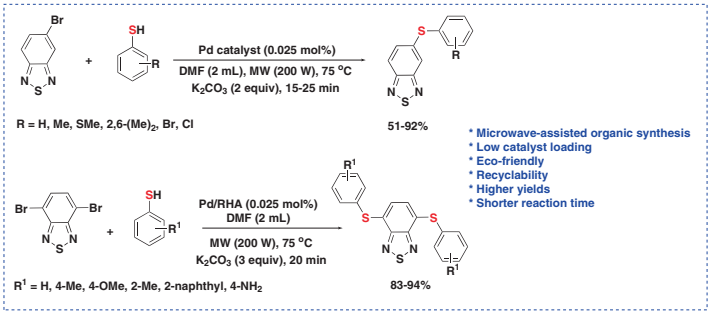

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Synlett **2022**, *33*, 1645–1654
DOI: 10.1055/a-1896-3512

Iron-Catalyzed Synthesis of Pyrrolo[2,1-*a*]isoquinolines via 1,3-Dipolar Cycloaddition/Elimination/Aromatization Cascade and Modifications

Letter

1645

X.-H. Chen
Y.-Y. Pan
W.-X. Wang
H.-L. Cui*
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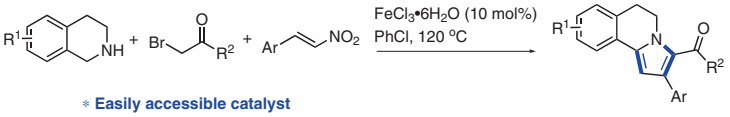

- Easily accessible catalyst
- Air as terminal oxidant
- Introduction of ketone groups

15 examples, 16-75% yields

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Synlett **2022**, *33*, 1655–1659
DOI: 10.1055/a-1877-3822

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A. M. Remete
T. T. Novák
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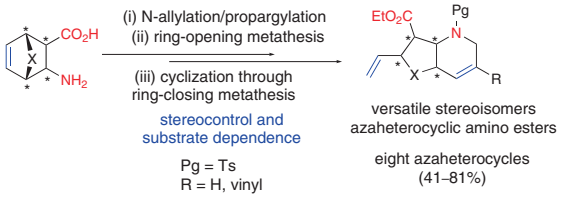
Research Centre for Natural Sciences, Hungary

Stereocontrolled Synthesis of Some Novel Azaheterocyclic β-Amino Ester Stereoisomers with Multiple Stereogenic Centers

Letter

1655



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Synlett **2022**, *33*, 1660–1664
DOI: 10.1055/a-1906-3382

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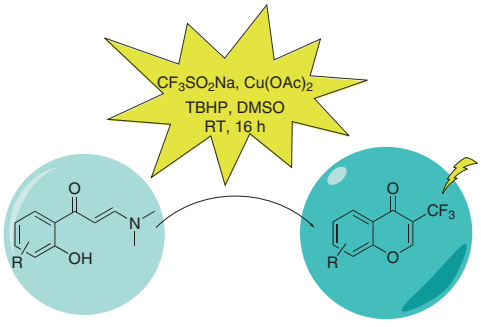
Aragen Life Sciences, India

Langlois Reagent Mediated Tandem Cyclization of *o*-Hydroxyaryl Enaminones for the Synthesis of 3-(Trifluoromethyl)chromones

Letter

1660

Facile access to CF_3-containing chromones via copper acetate catalyzed cyclization of *O*-hydroxy enaminone at room temperature



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Synlett **2022**, *33*, 1665–1669
DOI: 10.1055/s-0042-1751364

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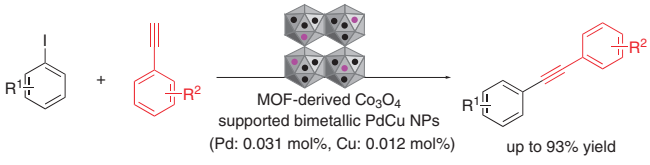
CNOOC Tianjin Chemical Research and Design Institute, P. R. of China

Metal–Organic Framework Derived Cobalt Oxide Supported Bimetallic Pd/Cu Nanoparticles for Efficient Catalysis of the Sonogashira Reaction under Aerobic Conditions

Letter

1665



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DOI: 10.1055/a-1887-7885

Aerobic Photooxidation of Toluene Derivatives into Carboxylic Acids with Bromine–Water under Catalyst-Free Conditions

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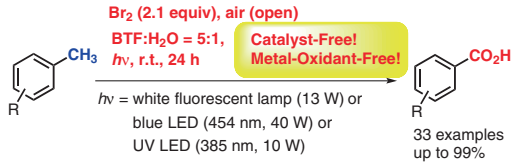

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