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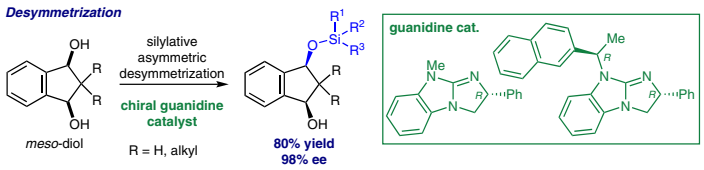
Accounts and Rapid Communications in Chemical Synthesis

February 14, 2025 • Vol. 36, 191–288



Enantioselective Silylative Desymmetrization of *meso*-Indane-1,3-diols Catalyzed by Chiral Guanidines

A. Ui, M. Iwakura, S. Yoshimatsu, K. Nakata

3

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Photoredox- and Cobalt-Cocatalyzed Dehydrogenative Ring-Opening/Functionalization of Monodonor Cyclopropanes

Synpacts
191

Synlett **2025**, *36*, 191–198
DOI: 10.1055/a-2342-8284

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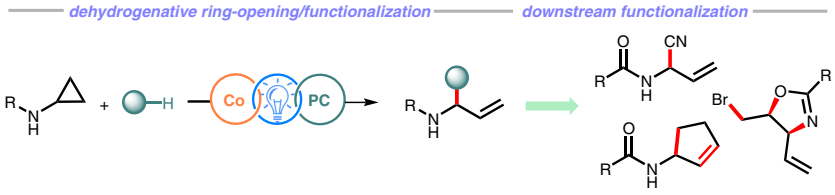

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A Homolytic Substitution Approach for Directing Group-Free Nickel-Catalyzed Dialkylation of Unactivated Alkenes

Synpacts
199

Synlett **2025**, *36*, 199–205
DOI: 10.1055/a-2352-4902

F. Cong
J. W. Ng
M. J. Koh*
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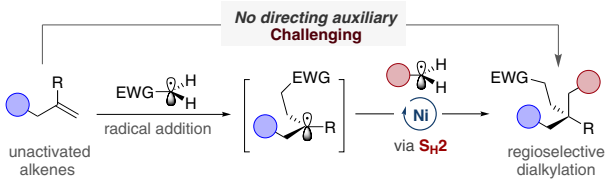

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Cyclization via Metal-Catalyzed Hydrogen Atom Transfer/Radical-Polar Crossover

Account

206

Synlett **2025**, *36*, 206–215
DOI: 10.1055/a-2337-2498

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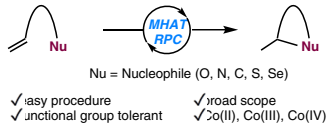

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Ketocalixarenes: Versatile yet still Unexplored Macrocycles

Account

216

Synlett **2025**, *36*, 216–225
DOI: 10.1055/s-0043-1775380

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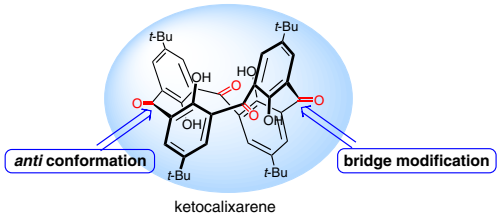

ketocalixarene

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Ruthenium Chloride Catalyzed One-Pot Synthesis of Aldehydes Directly from Benzylic or Primary Alkyl Halides in Aqueous Medium

Letter

226

Synlett **2025**, *36*, 226–230
DOI: 10.1055/s-0043-1774928

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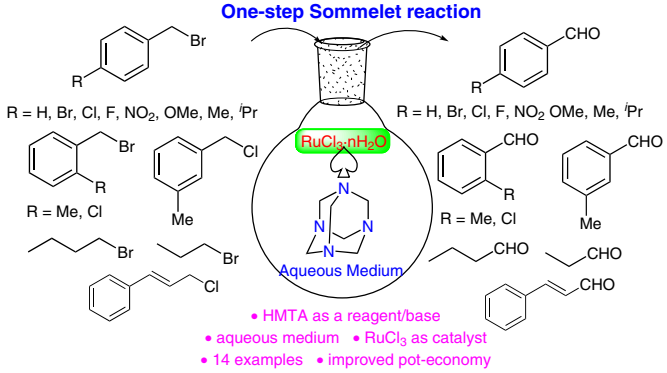

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Synlett **2025**, *36*, 231–237
DOI: 10.1055/a-2302-0450

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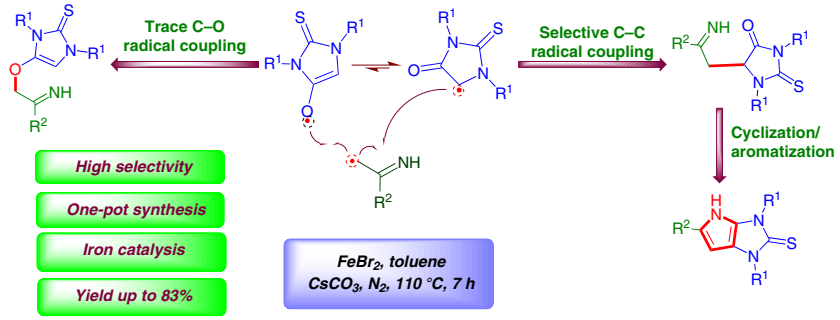
Iron-Catalyzed Oxidative C(sp^3)–C(sp^3) Radical Coupling Reaction between Thiohydantoins and *O*-Acetyloximes for the Synthesis of 1,3-Dibenzyl-3,4-dihydropyrrolo[2,3-*d*]imidazole-2(1*H*)-thione Derivatives

Letter

231



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Synlett **2025**, *36*, 238–241
DOI: 10.1055/a-2319-3343

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X. Zhang
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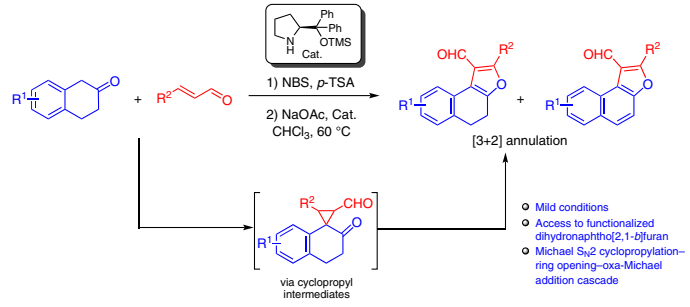
Organocatalytic [3+2] Annulation of β-Tetralones with α,β-Unsaturated Aldehydes

Letter

238



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Synlett **2025**, *36*, 242–245
DOI: 10.1055/a-2322-0816

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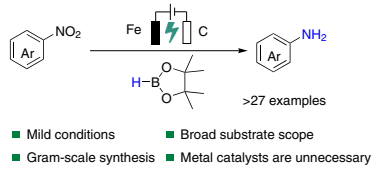
Electrochemical Nitro Reduction to Amines Using Pinacolborane as Reducing Agent

Letter

242



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Synlett **2025**, *36*, 246–249
DOI: 10.1055/a-2328-3091

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S. R. Desai
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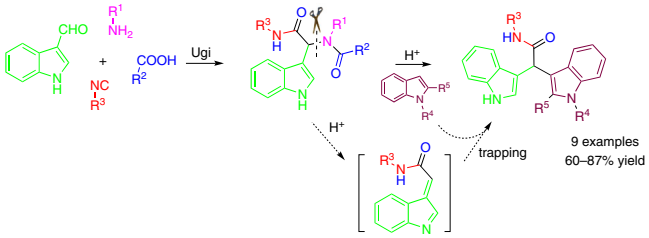
Uka Tarsadia University, India

Post-Ugi Acid-Catalyzed Fragmentation and Trapping: An Unprecedented Approach towards Novel Bis(indolyl)acetamides

Letter



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Synlett **2025**, *36*, 250–253
DOI: 10.1055/a-2307-0645

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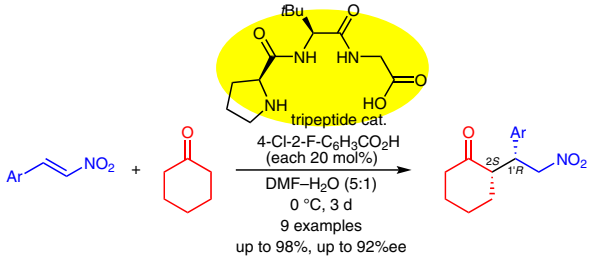
Tripeptide-Catalyzed Asymmetric Michael Addition Reaction of β-Nitrostyrenes with Cyclohexanone

Letter



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Synlett **2025**, *36*, 254–258
DOI: 10.1055/a-2330-9955

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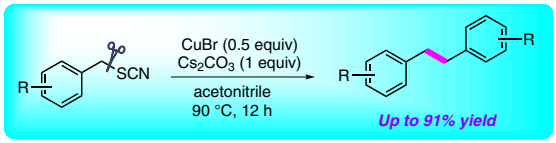
Copper-Promoted Dimerization of Benzyl Thiocyanates to Access Functionalized Bibenzyls

Letter



- *Cu(I)-promoted dimerization reaction*
- *Unusual C–S bond cleavage in one pot*
- *Additive- and oxidant-free*
- *Insensitive towards moisture and air*
- *Mild reaction conditions*
- *Broad tolerance of functional groups*

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Synlett **2025**, *36*, 259–263
DOI: 10.1055/s-0043-1774865

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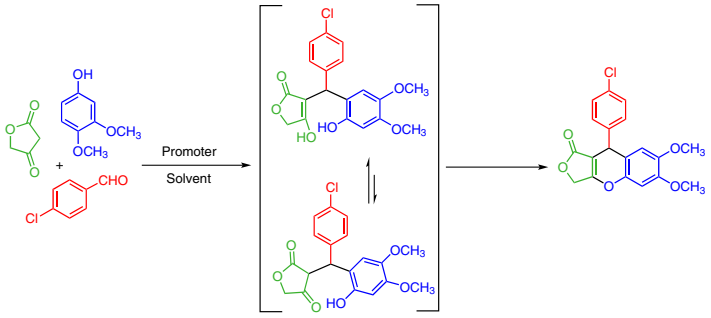
Ultrasound-Assisted, BF_3·OEt_2-Promoted, Multicomponent Synthesis of Chromene-Based Podophyllotoxin Analogues

Letter



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Synlett **2025**, *36*, 264–268
DOI: 10.1055/s-0043-1775366

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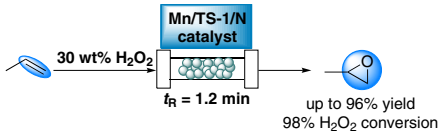
Aliphatic Olefin Epoxidation with Hydrogen Peroxide Catalyzed by an Integrated Mn/TS-1/N System

Letter



- Integrated catalysis
- Green and safe process
- Simple operation and high efficiency
- Continuously run over 1300 hours

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Synlett **2025**, *36*, 269–273
DOI: 10.1055/a-2320-8362

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P. O. Novosolov
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A. I. Hanopolskyi
Y. M. Volovenko
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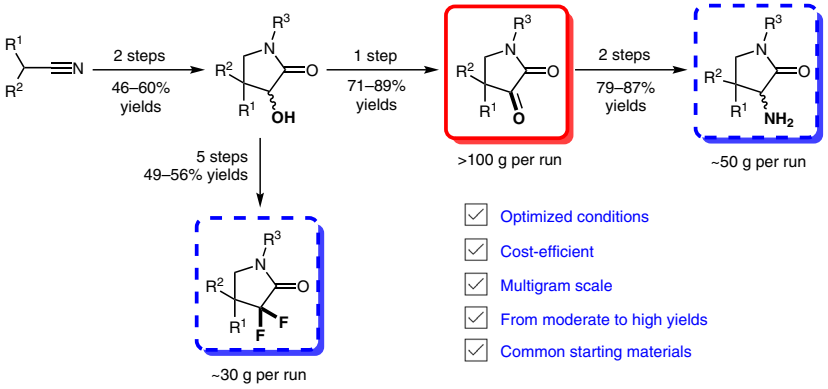
Enamine Ltd, Ukraine

Multigram Synthesis of 4,4-Disubstituted 3-Oxopyrrolidones: Efficient Starting Materials for Diverse 3-Functionalized Pyrrolidones

Letter



- ☑ Optimized conditions
- ☑ Cost-efficient
- ☑ Multigram scale
- ☑ From moderate to high yields
- ☑ Common starting materials

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Synlett **2025**, *36*, 274–278
DOI: 10.1055/a-2315-8320

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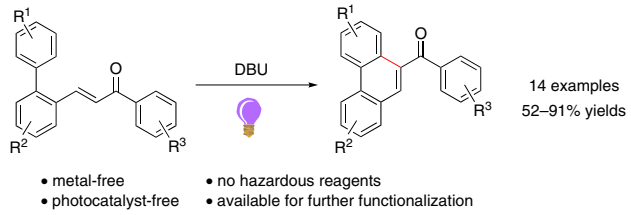
Visible-Light-Driven Metal-Free and Photocatalyst-Free Intramolecular Cyclization of Chalcones to Access Phenanthrenes

Letter



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Synlett **2025**, *36*, 279–283
DOI: 10.1055/a-2322-0904

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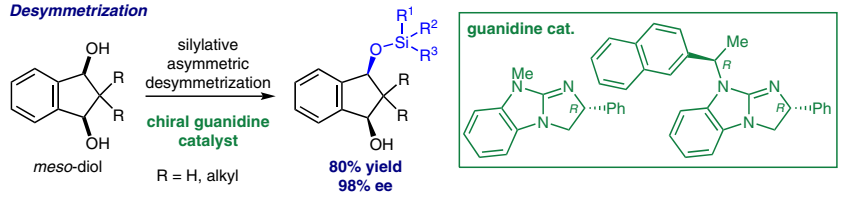
Enantioselective Silylative Desymmetrization of *meso*-Indane-1,3-diols Catalyzed by Chiral Guanidines

Letter



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Synlett **2025**, *36*, 284–288
DOI: 10.1055/a-2330-0874

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Synthesis of Dihydrobenzosiloles and Silacyclopentanes by Double Hydroalumination of Terminal Alkynes

Letter