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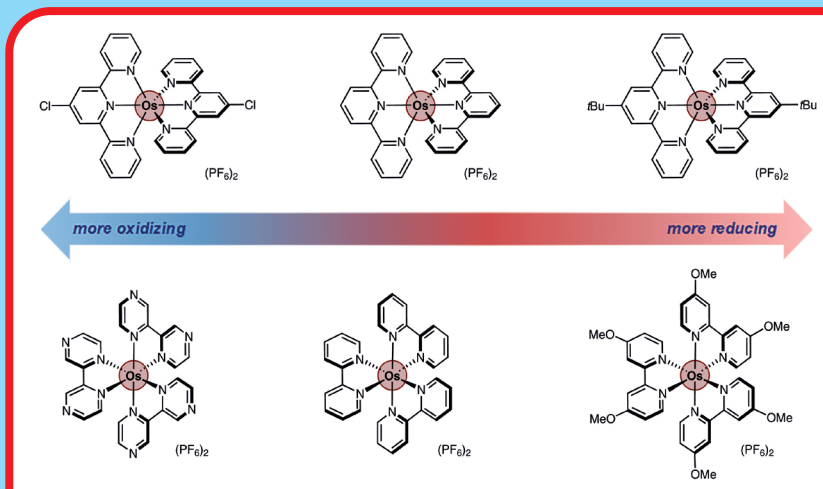
Accounts and Rapid Communications in Chemical Synthesis

February 11, 2022 • Vol. 33, 201–300



Tuning the Electrochemical and Photophysical Properties of Osmium-Based Photoredox Catalysts

S. L. Goldschmid, E. Bednářová, L. R. Beck, K. Xie, N. E. S. Tay, B. D. Ravetz, J. Li, C. L. Joe, T. Rovis

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Thieme

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Vol. 33, No. 3
February

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Catalytic Atroposelective Dynamic Kinetic Resolution of Substituted Indoles

Synpacts

201

Synlett **2022**, *33*, 201–206
DOI: 10.1055/a-1694-4695

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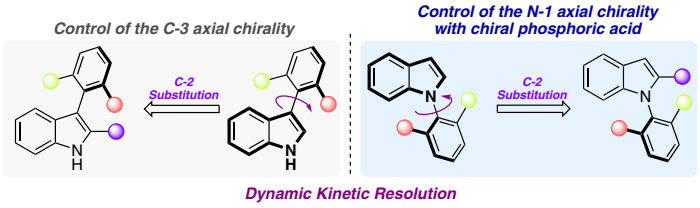

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Domino Reactions of Chromones with Heterocyclic Enamines

Account

207

Synlett **2022**, *33*, 207–223
DOI: 10.1055/s-0040-1719830

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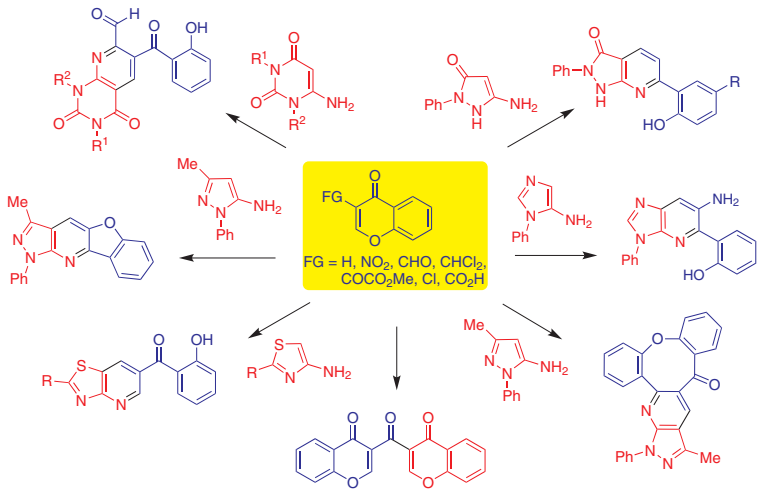

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Nickel Hydride Catalyzed Remote Hydroarylation of Olefins

Account

224

Synlett **2022**, *33*, 224–230
DOI: 10.1055/a-1637-9308

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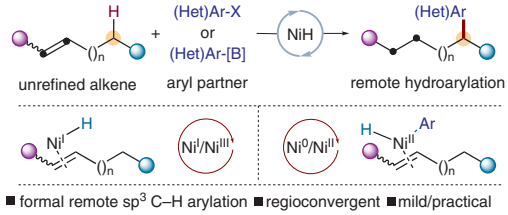

Chemistry of the Heterotriquinanes and Heterotriquinacenes

Account

231

Synlett **2022**, *33*, 231–246
DOI: 10.1055/s-0040-1719847

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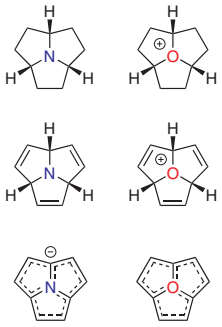

Tuning the Electrochemical and Photophysical Properties of Osmium-Based Photoredox Catalysts

New Tools

247

Synlett **2022**, *33*, 247–258
DOI: 10.1055/s-0041-1737792

S. L. Goldschmid
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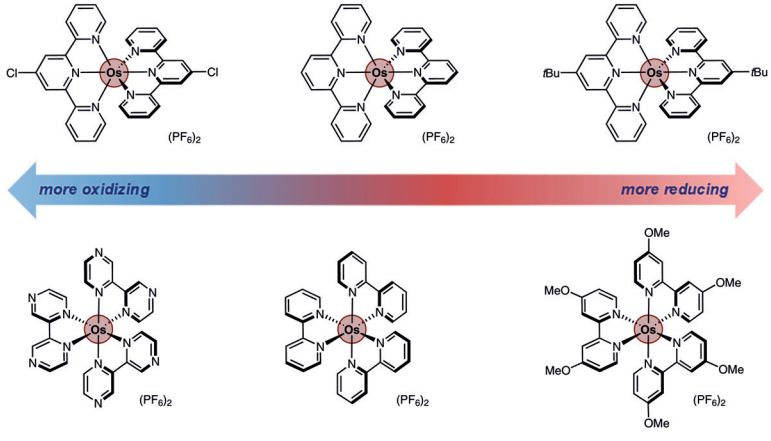

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Synlett **2022**, *33*, 259–263
DOI: 10.1055/a-1675-1043

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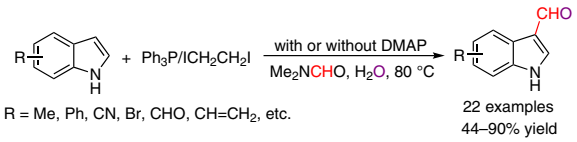
Triphenylphosphine/1,2-Diiodoethane-Promoted Formylation of Indoles with *N*,*N*-Dimethylformamide



R = Me, Ph, CN, Br, CHO, $CH=CH_2$, etc.

22 examples
44–90% yield

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Synlett **2022**, *33*, 264–268
DOI: 10.1055/a-1704-4822

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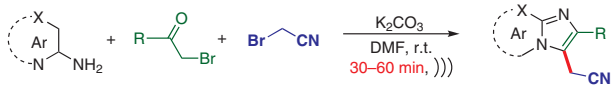
Synthesis of C3-Cyanomethylated Imidazo[1,2-*a*]pyridines via Ultrasound-Promoted Three-Component Reaction under Catalyst- and Oxidant-Free Conditions



X = C or S

R = aryl, heteroaryl or alkyl

- **Three-component reaction**
- **Catalyst- and oxidant-free**
- **Room temperature and mild conditions**
- **Easily available substrates, up to 85% yield**

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Synlett **2022**, *33*, 269–272
DOI: 10.1055/a-1707-0965

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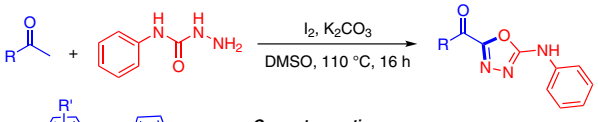
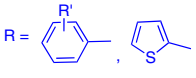
Synthesis of 1,3,4-Oxadiazoles by Iodine-Mediated Oxidative Cyclization of Methyl Ketones with 4-Phenylsemicarbazide





R' = F, Cl, Br, CF_3 etc.

- ***One-pot operation***
- ***Mild reaction conditions***
- ***Easily handled***

11 examples
up to 80% yield

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Synlett **2022**, *33*, 273–276
DOI: 10.1055/a-1707-6593

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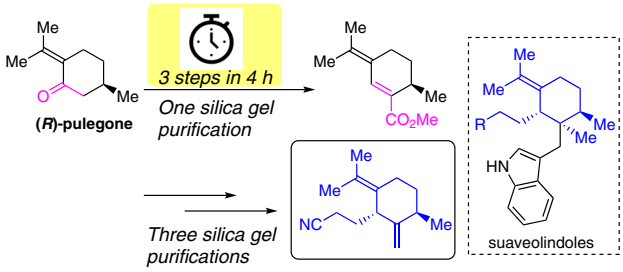
Concise Synthesis of the Terpene Core Structure of Suaveolindole through a Time-Economic Route

Letter

273



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Synlett **2022**, *33*, 277–282
DOI: 10.1055/a-1684-0448

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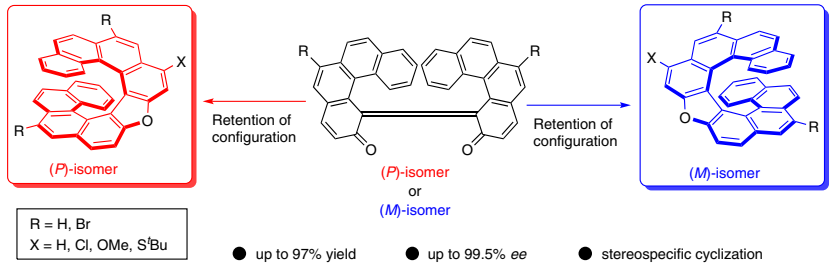
Synthesis of Enantiomerically Pure Oxa[9]helicene Derivatives by a Nucleophilic Cyclodehydration Reaction of Helical 1,1′-Bibenzo[c]phenanthrenylidene-2,2′-dione

Letter

277



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Synlett **2022**, *33*, 283–287
DOI: 10.1055/a-1679-7225

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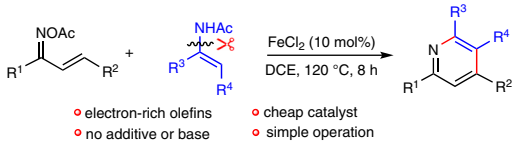
Iron-Catalyzed Synthesis of Pyridines from α,β-Unsaturated Ketoxime Acetates and *N*-Acetyl Enamides

Letter

283



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Synlett **2022**, *33*, 288–292
DOI: 10.1055/a-1673-9236

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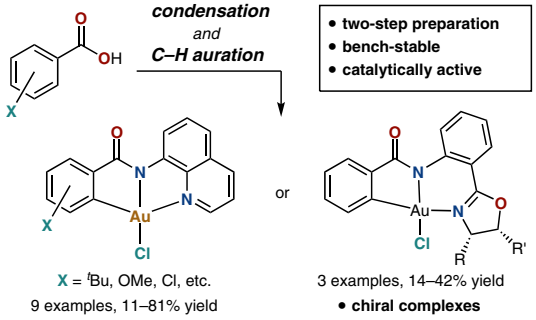
Synthesis of C,N,N-Cyclometalated Gold(III) Complexes with Anionic Amide Ligands

Letter

288



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Synlett **2022**, *33*, 293–295
DOI: 10.1055/a-1684-0380

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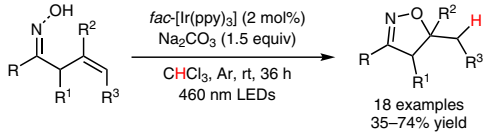
Generation of Iminoxyl Radicals by Photoredox Catalysis Enables Oxidant-Free Hydroxygenation of β,γ-Unsaturated Oximes

Letter

293



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Synlett **2022**, *33*, 296–300
DOI: 10.1055/a-1697-7477

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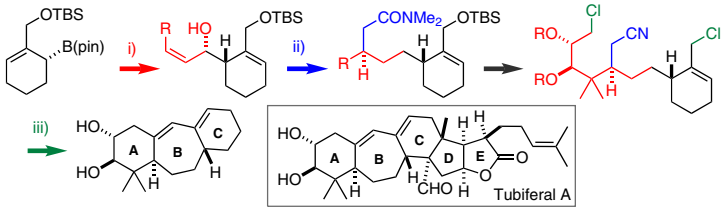
Synthetic Studies toward Tubiferal A: Asymmetric Synthesis of a Model ABC-Ring Compound

Letter

296



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