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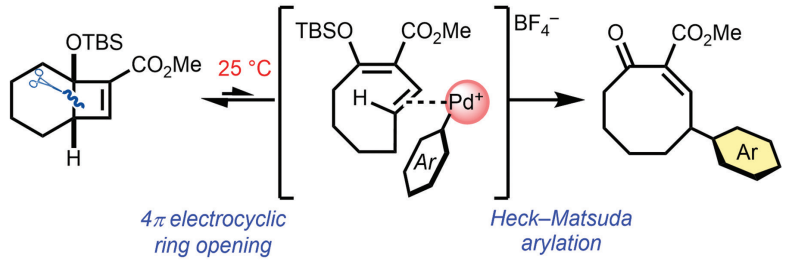
Accounts and Rapid Communications in Chemical Synthesis

July 4, 2023 • Vol. 34, 1185–1284



Synthesis of γ-Aryl Medium-Sized Cyclic Enones by a Domino 4π-Electrocyclic Reaction/Heck–Matsuda Arylation Sequence at Ambient Temperature

T. Ito, N. Takeuchi, Y. Yamaoka, H. Takikawa, K. Takasu

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Synlett **2023**, *34*, 1185–1194
DOI: 10.1055/a-2012-4754

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M. Sigrist
S. Martínez
J. Bojanowski
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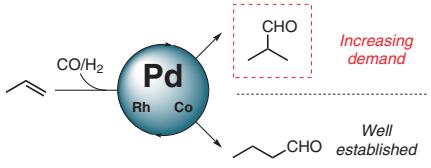
Iodide-Assisted Pd Catalysis as an Attractive Alternative to Rh Catalysis for the Industrially Relevant Isoselective Hydroformylation of Simple Aliphatic Alkenes

Synpacts



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Synlett **2023**, *34*, 1195–1199
DOI: 10.1055/s-0042-1751412

G. Huang
C. Kouklovsky
A. de la Torre*
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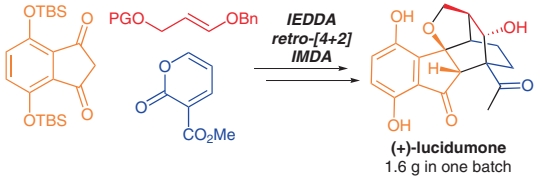
Retro-[4+2]/Intramolecular Diels–Alder Cascade Allows a Concise Total Synthesis of Lucidumone

Synpacts



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Synlett **2023**, *34*, 1200–1214
DOI: 10.1055/a-2003-2276

L.-Y. Wang
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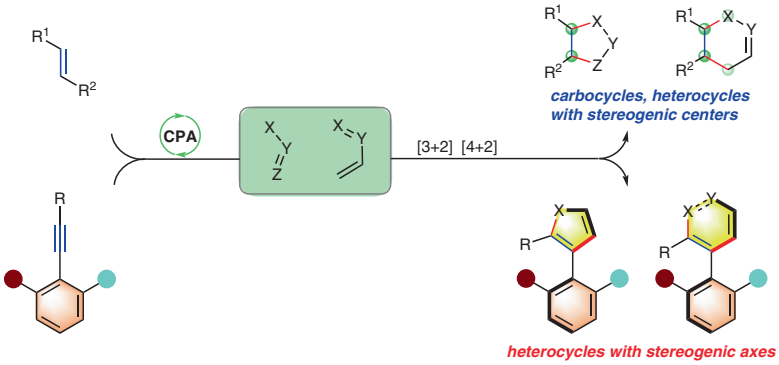
J. Chen*
L. Zhou*

Northwest University, P. R. of China

Chiral Phosphoric Acid Catalyzed Asymmetric Cycloadditions: from Alkenes to Alkynes

Account



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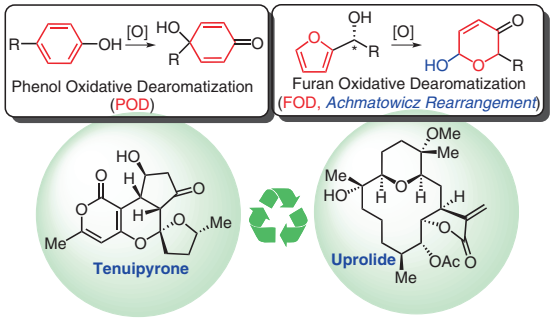
Synlett **2023**, *34*, 1215–1229
DOI: 10.1055/a-2010-7874

R. Tong*

The Hong Kong University of Science and Technology, P. R. of China
The Southern Marine Science and Engineering Guangdong Laboratory (Guangzhou), P. R. of China

The Untold Journey of Total Synthesis of Natural Products

Account



Synlett

Synlett **2023**, *34*, 1230–1234
DOI: 10.1055/a-2030-6874

C. Yang
Y. Li
Q. Huang
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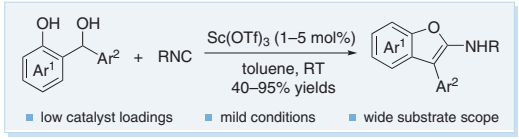
Lewis Acid Catalyzed [4+1] Cycloaddition of *o*-Quinone Methides and Isocyanides: Mild and Efficient Synthesis of 3-Aryl-2-aminobenzofurans

Letter



Synlett

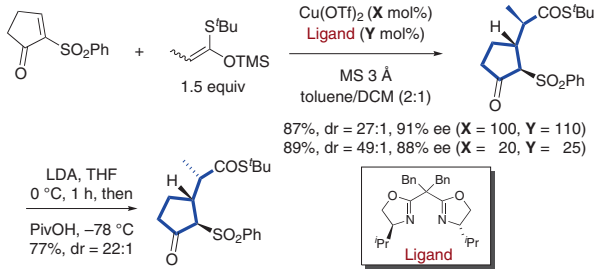
Synlett **2023**, *34*, 1235–1240
DOI: 10.1055/a-2030-7082

Preparation of New Chiral Building Blocks by a Mukaiyama–Michael Reaction of 2-(Phenylsulfonyl)cyclopent-2-en-1-one

Letter

1235

R. Sugiyama
M. Nakada*
Waseda University, Japan



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Synlett **2023**, *34*, 1241–1246
DOI: 10.1055/a-2030-7826

Organophotoredox-Catalyzed Oxidative C(sp^2)–H Alkylation of N-Heteroarenes with Dihydroquinazolinones by C–C Cleavage

Letter

1241

P. P. Mondal
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S. Das
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S. Ojha
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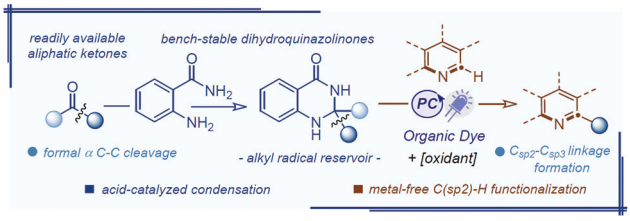

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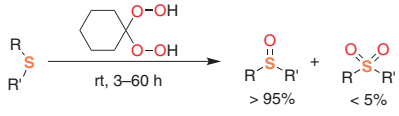
Synlett **2023**, *34*, 1247–1252
DOI: 10.1055/a-2015-7526

Catalyst-Free Oxidation of Sulfides to Sulfoxides by *gem*-Dihydroperoxide under Mild Conditions

Letter

1247

S. A. Grabovskii*
N. M. Andrijashina
A. N. Lobov
A. V. Antipin
R. L. Safiullin
Ufa Institute of Chemistry UFRC RAS, Russian Federation



R, R' = alkyl, Ph, Bn

Solvent = MeOH, PhH

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Regioselective Synthesis of 3,4-Disubstituted Isoxazoles by Using a Chalcone-Rearrangement Strategy

Letter

1253

Synlett **2023**, *34*, 1253–1258
DOI: 10.1055/a-2028-9454

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T. Kine
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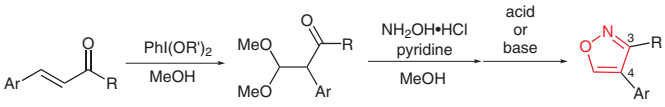

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Migrative Thioamination of Aryne Intermediates Generated from *o*-Iodoaryl Triflates

Letter

1259

Synlett **2023**, *34*, 1259–1264
DOI: 10.1055/a-2030-6299

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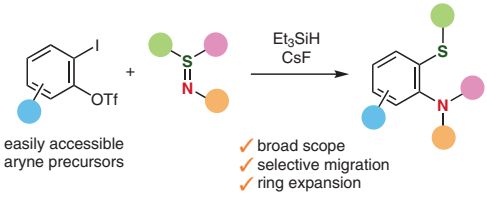
Tokyo Medical and Dental University (TMDU), Japan



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Synthesis of Pyrrolizinone and Pyrrolizino[1,2-*a*]pyrrolizin-5-one Skeletons Starting From Pyrrole through a Single-Step and Catalyst-Free Approach

Letter

1265

Synlett **2023**, *34*, 1265–1269
DOI: 10.1055/a-2006-4390

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B. Kuzu
S. Kolak
H. Genç
N. Menges*
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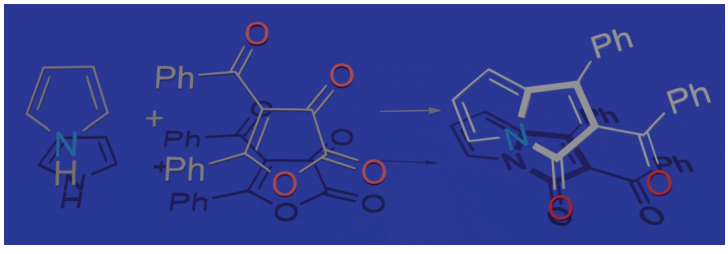
Necmettin Erbakan University, Turkey



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Synlett **2023**, *34*, 1270–1274
DOI: 10.1055/a-2012-0097

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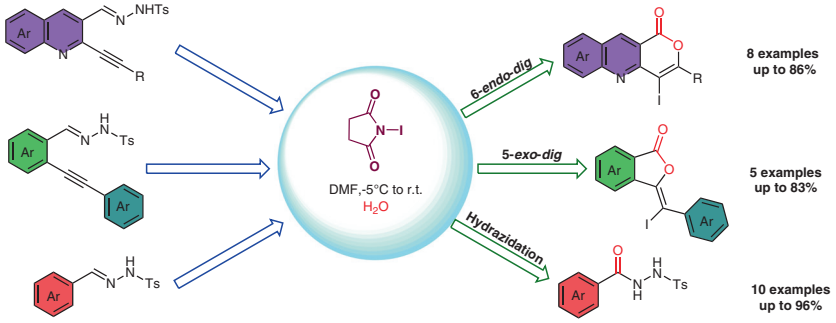
University of Nizwa, Sultanate of Oman

NIS-Mediated Oxidation of Hydrazones: A Rapid Access to Fused Lactones and Tosylhydrazides

Letter

1270



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Synlett **2023**, *34*, 1275–1279
DOI: 10.1055/a-2024-4675

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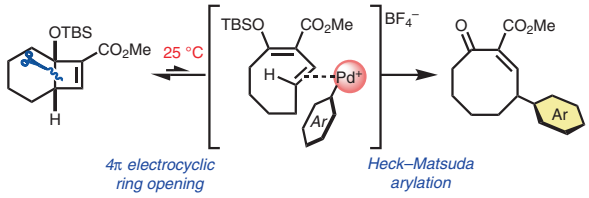
Synthesis of γ-Aryl Medium-Sized Cyclic Enones by a Domino 4π-Electrocyclic Reaction/Heck–Matsuda Arylation Sequence at Ambient Temperature

Letter

1275



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Synlett **2023**, *34*, 1280–1284
DOI: 10.1055/a-2007-2958

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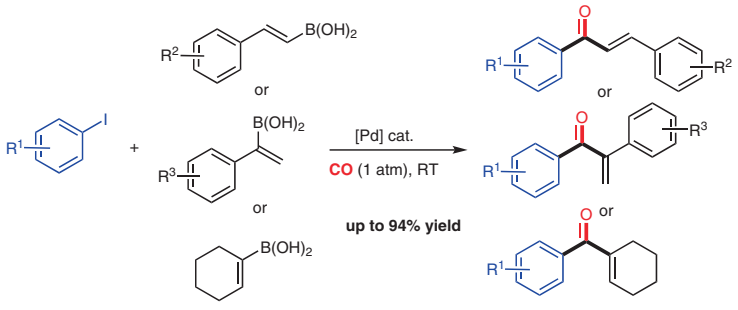
Nanjing Normal University, P. R. of China

Ligand-Free Palladium-Catalyzed Substoichiometric Base Mediated Carbonylation of Aryl Iodides with Alkenylboronic Acids under Ambient Conditions

Letter

1280



- Ligand-free
- 0.5 equiv of base
- Late-stage functionalization
- Ambient pressure
- Room temperature
- Valuable products