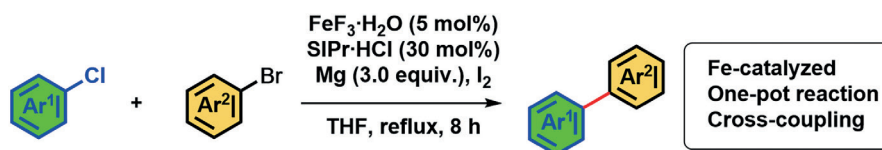


Synthesis

Reviews and Full Papers in Chemical Synthesis

July 18, 2023 • Vol. 55, 2109–2260



One-Pot Iron-Catalyzed Cross-Coupling Reactions of Aryl Chlorides and Aryl Bromides

Y.-B. Yin, X.-S. Peng, H. N. C. Wong

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Synthesis

Synthesis 2023, 55, 2109–2117
DOI: 10.1055/a-2039-7943

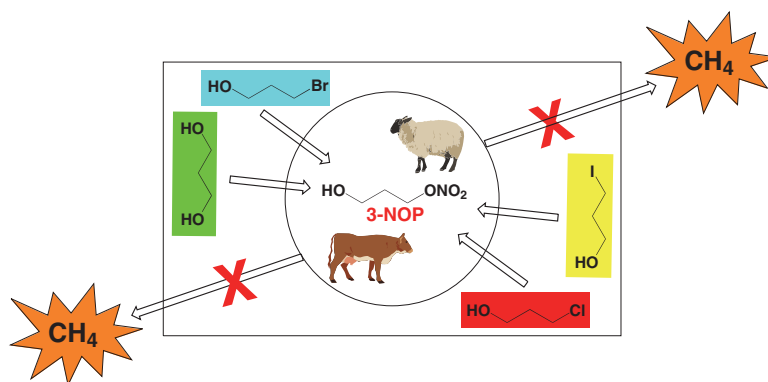
J. Marco-Contelles*

Institute of General Organic
Chemistry (CSIC), Spain

The Synthesis of 3-Nitroxypropanol, a Methane Mitigant for Sustainable Farming with Environmental Impact: A Review

Short Review

2109



Synthesis

Synthesis 2023, 55, 2118–2127
DOI: 10.1055/a-2050-4967

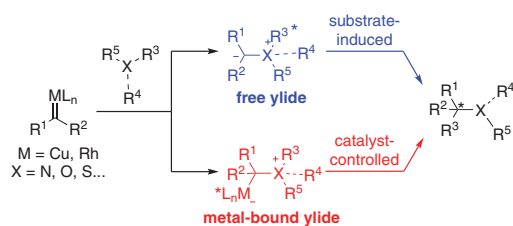
C.-Y. Shi
B. Zhou
M.-Y. Teng*
L.-W. Ye*

Yunnan Normal University,
P. R. of China
Xiamen University,
P. R. of China
Shanghai Institute of Organic
Chemistry, P. R. of China

Recent Advances in Asymmetric [1,2]-Stevens-Type Rearrangement via Metal Carbenes

Short Review

2118



asymmetric [1,2]-Stevens-type rearrangement via metal carbenes

Synthesis

Synthesis 2023, 55, 2128–2133
DOI: 10.1055/a-2034-9427

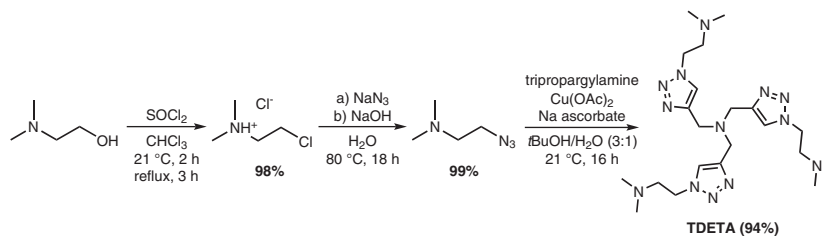
T. M. Weber
J. Pietruszka*

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Forschungszentrum Jülich, Germany

Synthesis of a Water-Soluble Tridentate (Dimethylamino)ethyl Cu(I)/Cu(II)-Ligand

PSP

2128



Synthesis

Synthesis 2023, 55, 2134–2142
DOI: 10.1055/a-2048-2662

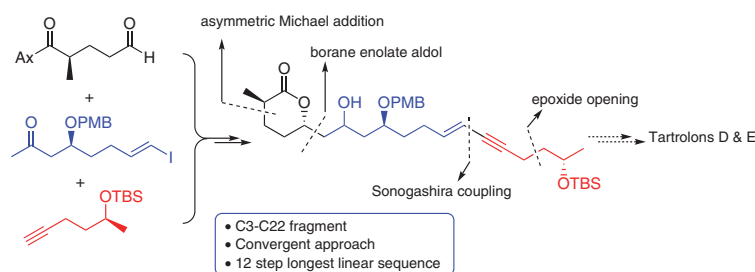
R. Sunnapu
M. Rehman
S. Nanoth
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Studies Towards The Synthesis of Tartrolons D and E

Paper

2134



Synthesis

Synthesis 2023, 55, 2143–2150
DOI: 10.1055/a-2044-9651

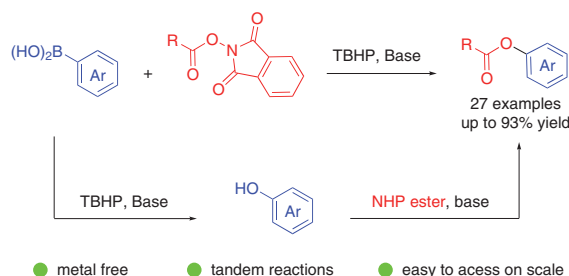
Z. Zhang
D. Ding
Y. Yang
R. Wan
L. Gong
H. Guan*
W. Li*

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One-Pot, Metal-Free Synthesis of Phenols from Arylboronic Acids and Subsequent Conversion with *N*-Hydroxyphthalimide Esters

Paper

2143



Synthesis

Polycyclic High-Density Cage Compounds via Cross Metathesis

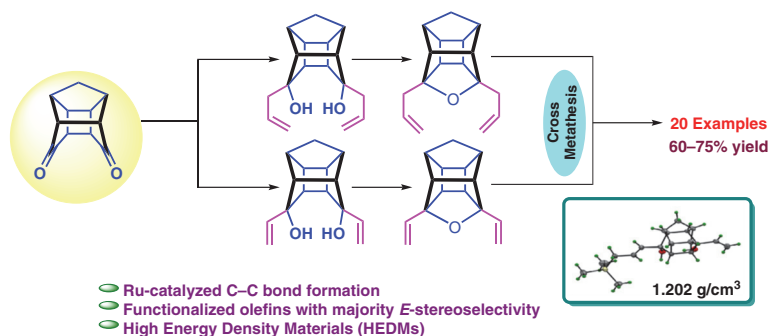
Paper

2151

Synthesis 2023, 55, 2151–2158
DOI: 10.1055/a-2047-6742

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U. N. Chaurasia

Indian Institute of Technology,
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Synthesis

Direct 2-Pyridyl-Alkylation of Benzynes with *N*-Alkylpyridinium Salts

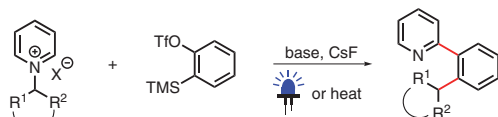
Paper

2159

Synthesis 2023, 55, 2159–2165
DOI: 10.1055/a-2050-6508

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□ Dicarbofunctionalization of benzyne □ *ortho*-Pyridyl-alkylation
□ Photocatalyst-free □ Metal-free □ *ortho*-Arylation of pyridine

Synthesis

Metal-Free Synthesis of Guanidines from Thioureas in Water Reactions Mediated by Visible Light

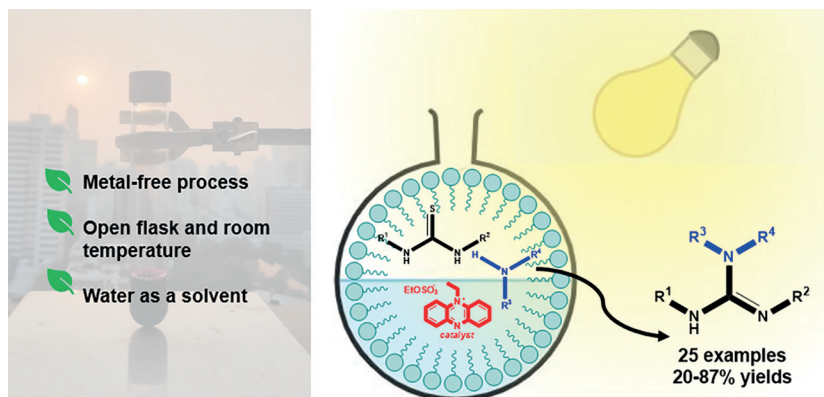
Paper

2166

Synthesis 2023, 55, 2166–2176
DOI: 10.1055/a-2050-3720

R. M. Annuur
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Synthesis

Synthesis 2023, 55, 2177–2185
DOI: 10.1055/s-0042-1751436

L. Salamone
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V. L. Revil-Baudard
F. Serpier*
L. Petit*

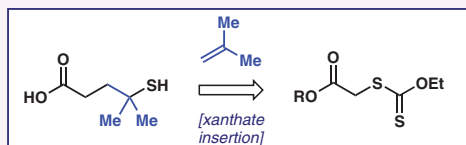
Minakem High Potent, Belgium
Minakem Recherche, France

A Simple and Modular Access to 4-Mercapto-4-methylpentanoic Acid: A Useful Building Block in Antibody-Drug Conjugates Research

Paper

2177

4-Mercapto-4-methylpentanoic acid via radical transfer reaction



[inexpensive] [regioselective] [simple setup]
[olefin in solution] [ADC chemistry] [radical retrosynthesis]

Synthesis

Synthesis 2023, 55, 2186–2194
DOI: 10.1055/a-2035-0040

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A New Method for the Synthesis of 1-Methyl-1*H*-indole-3-carboxylate Derivatives, Employing Copper(II)

Paper

2186



Synthesis

Synthesis 2023, 55, 2195–2205
DOI: 10.1055/a-2038-2323

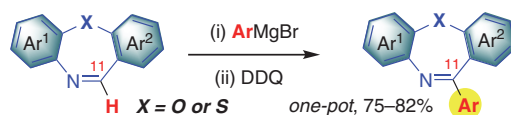
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H. Du*
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Late-Stage Two-Step C11–H Arylation of Dibenzooxa/thiazepines

Paper

2195



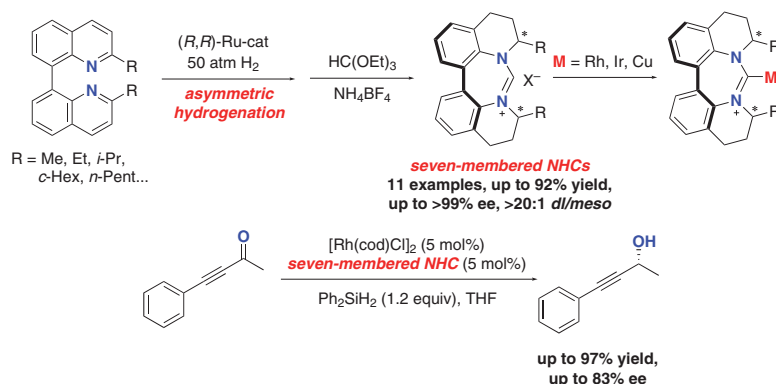
Synthesis

Synthesis 2023, 55, 2206–2218
DOI: 10.1055/s-0042-1751439

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Asymmetric Synthesis of Chiral Seven-Membered NHCs, Their Transition-Metal Complexes and Application in Asymmetric Catalysis

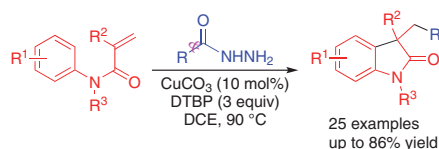


Synthesis

Synthesis 2023, 55, 2219–2227
DOI: 10.1055/s-0041-2052-3331

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nology of China, P. R. of China

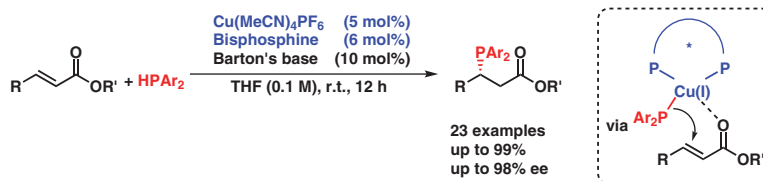
Aliphatic Acylhydrazides as Effective Alkylating Agents for the Copper-Catalyzed Oxidative Cyclization of *N*-Arylacrylamides

Synthesis

Synthesis 2023, 55, 2228–2240
DOI: 10.1055/s-0041-1738435

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Copper(I)-Catalyzed Enantioselective 1,4-Conjugate Hydrophosphination of α,β -Unsaturated Esters

Synthesis

Synthesis 2023, 55, 2241–2252
DOI: 10.1055/s-0042-1752658

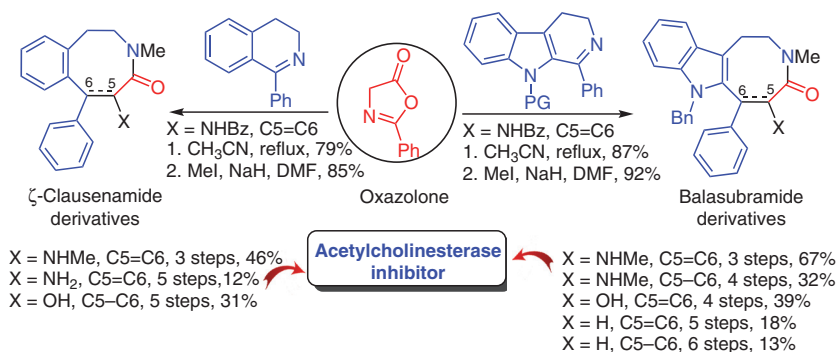
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C. Ngermnak
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(EHT), Thailand

Synthesis of Clausena Alkaloids Using Unique Ring Expansion of Dihydroisoquinolines and Their Cholinesterase Inhibitory Activity

Paper

2241



Synthesis

Synthesis 2023, 55, 2253–2260
DOI: 10.1055/a-2042-3533

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X.-S. Peng*
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One-Pot Iron-Catalyzed Cross-Coupling Reactions of Aryl Chlorides and Aryl Bromides

Paper

2253

