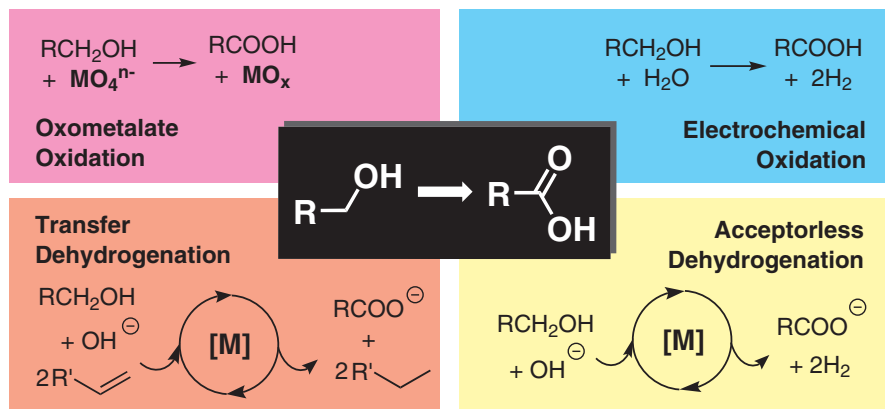


Synthesis

Reviews and Full Papers in Chemical Synthesis

March 17, 2021 • Vol. 53, 983–1180



Direct Oxidation of Primary Alcohols to Carboxylic Acids

V. Cherepakhin, T. J. Williams

6

Synthesis

Synthesis 2021, 53, 983–1002
DOI: 10.1055/s-0040-1705986

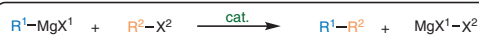
K. Juhász
Á. Magyar
Z. Hell*

Budapest University of Technol-
ogy and Economics, Hungary

Transition-Metal-Catalyzed Cross-Coupling Reactions of Grignard Reagents

Review

983



R^1, R^2 = organic substituents
 X^1 = Cl, Br, I
 X^2 = leaving group (e.g. halogen, OR, OTs)
cat. = transition-metal catalyst (e.g. Ni, Pd, Fe, Co, Cu, Mn, Cr)

Synthesis

Synthesis 2021, 53, 1003–1022
DOI: 10.1055/s-0040-1705978

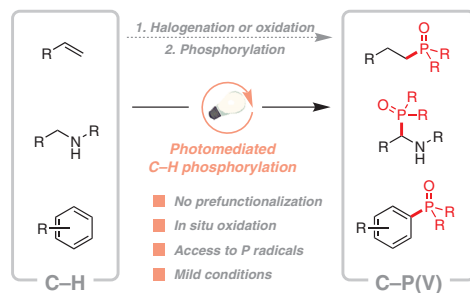
S. P.-M. Ung
V. A. Mechrouk
C.-J. Li*

McGill University, Canada

Shining Light on the Light-Bearing Element: A Brief Review of Photo-mediated C–H Phosphorylation Reactions

Review

1003



Synthesis

Direct Oxidation of Primary Alcohols to Carboxylic Acids

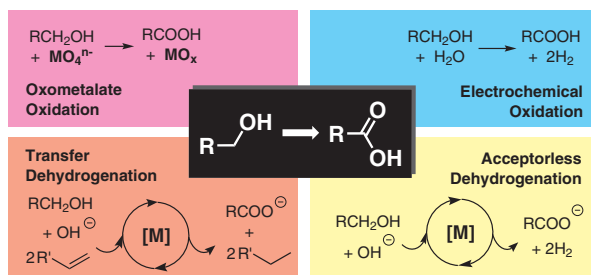
Short Review

1023

Synthesis 2021, 53, 1023–1034
DOI: 10.1055/s-0040-1706102

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Synthesis

Polycyclic Compounds from Allenes via Palladium-Mediated Intramolecular Carbopalladation/Nucleophilic Substitution Cascade Processes

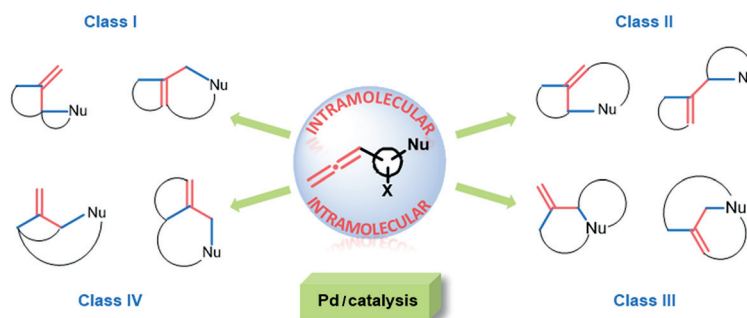
Short Review

1035

Synthesis 2020, 52, 1035–1045
DOI: 10.1055/s-0040-1705994

M. D. Jovanovic
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Synthesis

Gold Catalysis and Furans: A Powerful Match for Synthetic Connections

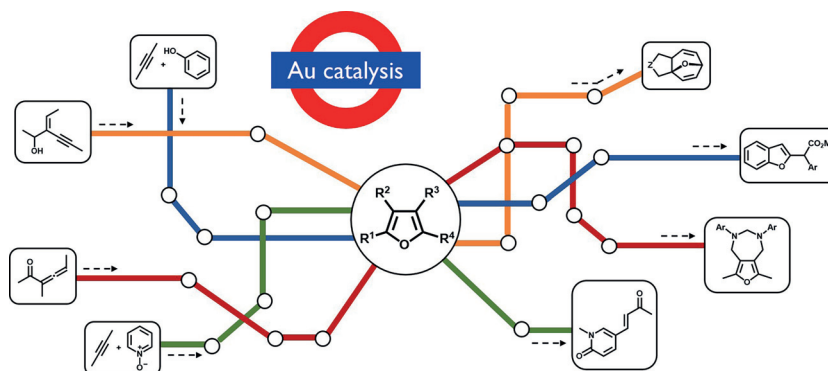
Short Review

1046

Synthesis 2021, 53, 1046–1060
DOI: 10.1055/s-0040-1705996

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Synthesis

Alkylzirconocenes in Organic Synthesis: An Overview

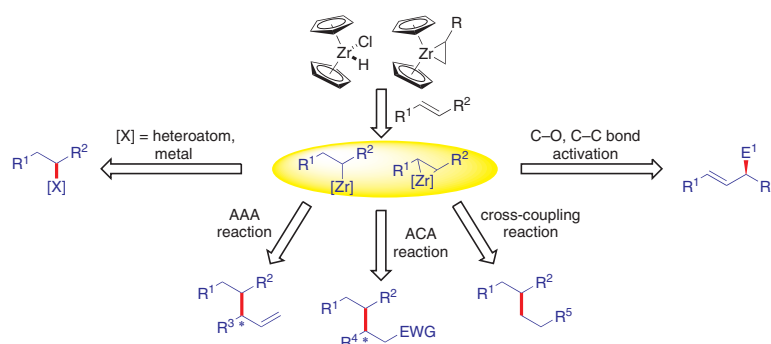
Short Review

1061

Synthesis 2021, 53, 1061–1076
DOI: 10.1055/s-0040-1706146

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Synthesis

Photocatalytic Stoichiometric Oxidant-Free Synthesis of Linear Unsaturated Ketones from 1,2-Disubstituted Cyclopropanols

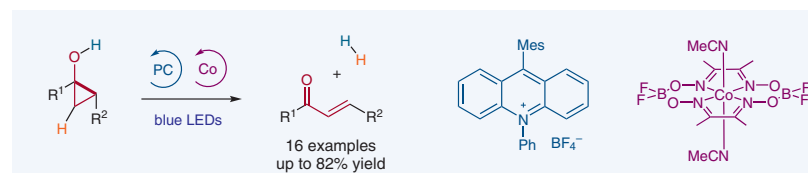
Feature

1077

Synthesis 2021, 53, 1077–1086
DOI: 10.1055/s-0040-1706088

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Synthesis

Michael Addition of Indoles to Enones Catalyzed by a Cationic Iron Salt

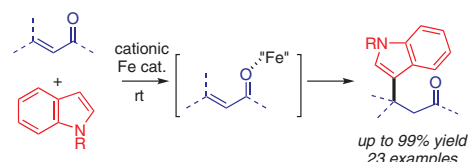
Feature

1087

Synthesis 2021, 53, 1087–1094
DOI: 10.1055/s-0040-1705997

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Synthesis

Synthesis 2021, 53, 1095–1102
DOI: 10.1055/s-0040-1707317

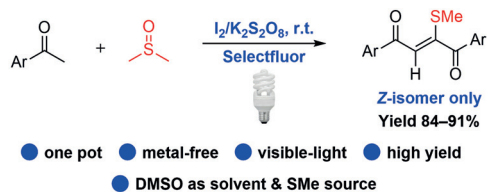
G. K. Rastogi
M. L. Deb*
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Visible-Light-Driven Z-Selective Reaction of Methyl Ketones with DMSO: A Mild Synthetic Approach to Methylthio-Substituted 1,4-Enedione Promoted by Selectfluor™

Paper

1095



Synthesis

Synthesis 2021, 53, 1103–1111
DOI: 10.1055/s-0040-1706473

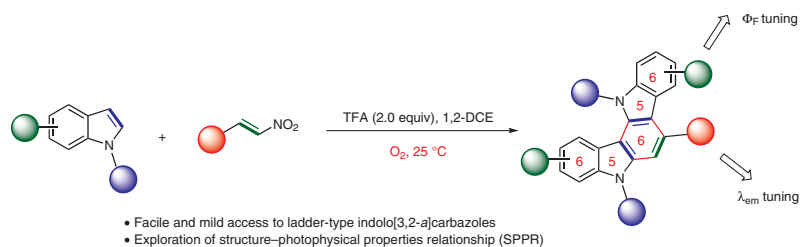
S. Liu
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Z. Ying
F. Luo
E. Chen
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Facile and Mild Access to Fluorescent Ladder-Type Indolo[3,2-a]carbazoles via Cascade Annulation

Paper

1103



Synthesis

Synthesis 2021, 53, 1112–1120
DOI: 10.1055/s-0040-1706481

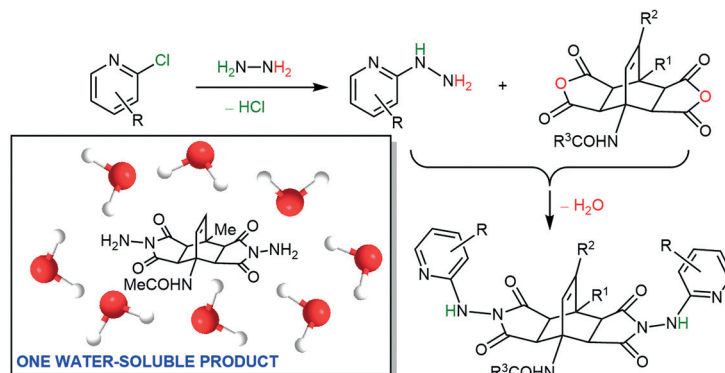
J. Ekar
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Synthesis of Hydrazinylpyridines via Nucleophilic Aromatic Substitution and Further Transformation to Bicyclo[2.2.2]octenes Fused with Two N-Aminosuccinimide Moieties

Paper

1112



Synthesis

Ruthenium-Catalyzed Oxidative Dearomatization of *N*-Boc Indoles

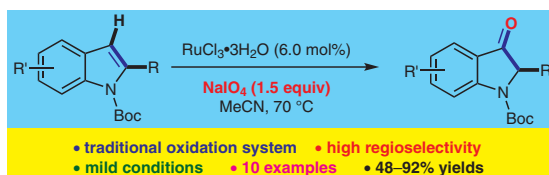
Paper

1121

Synthesis 2021, 53, 1121–1126
DOI: 10.1055/s-0040-1706539

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Synthesis

Synthesis of Fused Pyrimido[1,6-*a*]indolones via Rhodium(III)-Catalyzed Cascade Annulations

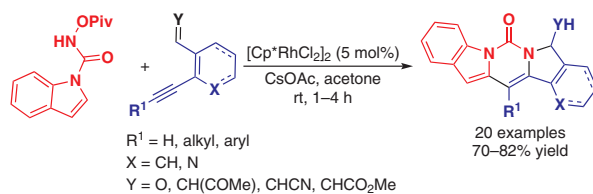
Paper

1127

Synthesis 2021, 53, 1127–1136
DOI: 10.1055/s-0040-1707312

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Synthesis

Highly Functionalized Pyrrolylpyridines from 2-(Acylethynyl)pyrroles

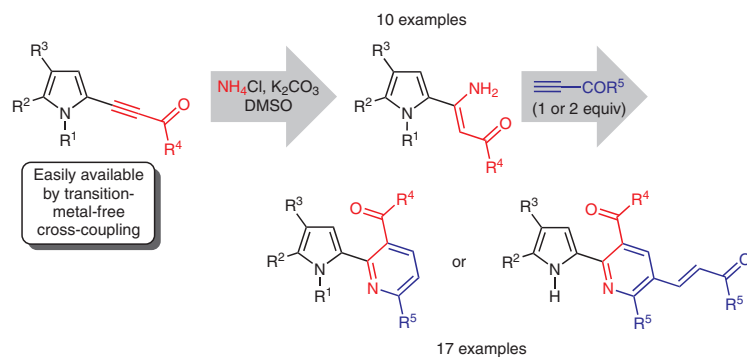
Paper

1137

Synthesis 2021, 53, 1137–1148
DOI: 10.1055/s-0040-1706474

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Synthesis

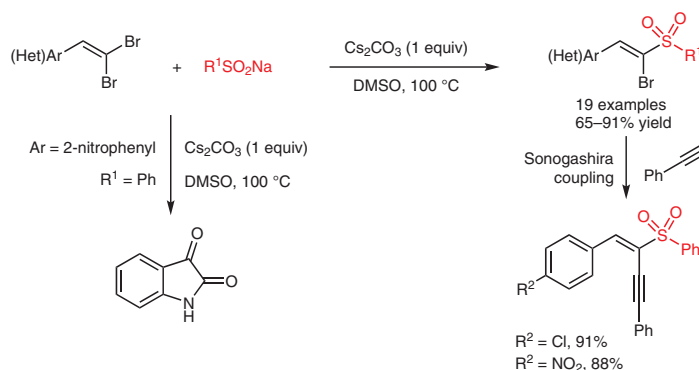
Synthesis 2021, 53, 1149–1156
DOI: 10.1055/s-0040-1706295

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Cs₂CO₃-Mediated Regio- and Stereoselective Sulfonylation of 1,1-Dibromo-1-alkenes with Sodium Sulfinates

Paper

1149



Synthesis

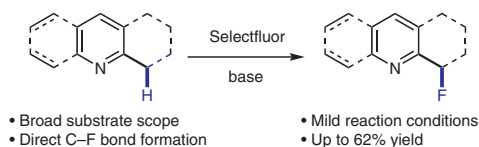
Synthesis 2021, 53, 1157–1162
DOI: 10.1055/s-0040-1706482

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A. Mazzah
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C. Rolando
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Direct and Regioselective C(sp³)-H Bond Fluorination of 2-Alkylazaarenes with Selectfluor

Paper

1157



Synthesis

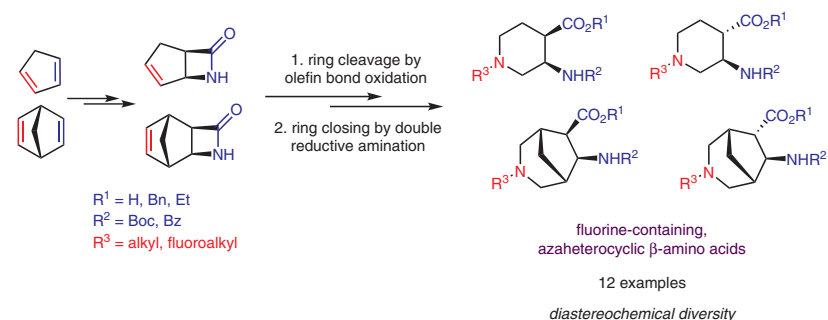
Synthesis 2021, 53, 1163–1173
DOI: 10.1055/s-0040-1706637

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D. Kara
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Diversity-Oriented Stereocontrolled Synthesis of Some Piperidine- and Azepane-Based Fluorine-Containing β-Amino Acid Derivatives

Paper

1163



Synthesis 2021, 53, 1174–1180
DOI: 10.1055/s-0040-1706299

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