Emerging Catalyst Control in Cobalt-Catalyzed Oxidative Hydrofunctionalization Reactions

R. Zhu*
Peking University, P. R. of China

Regioselective Radical Alkene Amination Strategies by Using Phosphite-Mediated Deoxygenation

S. W. Lardy
V. A. Schmidt*
University of California, USA
Ruthenium-Catalyzed Direct Cross-Coupling of Secondary Alcohols to β-Disubstituted Ketones

S. Thiyagarajan
C. Gunanathan*
National Institute of Science Education and Research (NISER), India

Ruthenium-Catalyzed Direct Cross-Coupling of Secondary Alcohols to β-Disubstituted Ketones

R = R' = alkyl, aryl, cinnamyl
RF = aryl, benzyl, Ts
up to 92% yield
R' = H, EDG, EWG
up to 88% yield

Recent Progress in the Copper-Catalyzed Cascade Cyclization Involving Intramolecular Hydroamination of Terminal Alkynes

T.-D. Tan
Y.-B. Chen
X.-Y. Fan
L.-W. Ye*
Xiamen University, P. R. of China
Shanghai Institute of Organic Chemistry, P. R. of China

Recent Advances in the Synthesis of Thiadiazoles

Y. Xiao
S. Sun
J.-T. Yu
J. Cheng*
Changzhou University, P. R. of China
Functional End Groups in Living Ring-Opening Metathesis Polymerization

A. F. M. Kilbinger*
University of Fribourg, Switzerland

Simple Apparatus for Adding Small Amounts of Powder Materials under an Inert Atmosphere

M. Karak Y. Joh K. U. Khodjaniyazov S. S. Sagdullaev T. Oishi K. Torikai*
Kyushu University, Japan

Selective and Scalable Dehydrogenative Electrochemical Synthesis of 3,3',5,5'-Tetramethyl-2,2'-biphenol

M. Selt S. Mentizi D. Schollmeyer R. Franke S. R. Waldvogel*
Johannes Gutenberg University Mainz, Germany MAterial Science IN MainZ (MAINZ), Germany

This document was downloaded for personal use only. Unauthorized distribution is strictly prohibited.
[2+2] Photocycloaddition of 3-Alkoxycoumarins with $C_{60}$

M. Ueda*
M. Hayama
H. Hashishita
Osaka Prefecture University, Japan

$\text{R} = \text{H, Ph, CO}_2\text{Me, Br}$

7 examples
up to 33% yield

Diene Synthesis by the Reductive Transposition of 1,2-Allenols

V. J. Rinaolo
E. E. Robinson
A. B. Diagne
S. E. Schaus
R. J. Thomson*
Northwestern University, USA

$\text{R} = \text{aryl and alkyl}$

54–86% yield
up to 5:1 cis:trans

Diethyl Phosphite Promoted Electrochemical Oxidation of Tetrahydroisoquinolines to 3,4-Dihydroisoquinolin-1(2H)-ones

W. Xie
B. Gong
S. Ning
N. Liu
Z. Zhang
X. Che
L. Zheng
J. Xiang*
Jilin University, P. R. of China

$\text{R} = \text{aryl, alkyl}$

21 examples
32–86% yield

• Simple reaction conditions
• High regioselectivity
A General Synthesis of Benzoazepinoindoles – A New Class of Heterocycles

J. C. Dobrowolski
D. H. T. Nguyen
B. H. Fraser
M. Bhadbhade
D. StC. Black
N. Kumar*
The University of New South Wales, Australia

Hydrogen-Bond-Promoted Metal-Free Hydroamination of Alkynes

J. Bahri
N. Tanbouza
T. Ollevier*
M. Taillefer*
F. Monnier*
École Nationale Supérieure de Chimie de Montpellier, France
Université Laval, Canada
IUF Institut Universitaire de France, France

Preparation of Bicyclic Ketal Skeletons with Aldehyde and α-Ketone Acid through Cascade Friedel–Crafts Reaction and Stereoselective Acetalization in One Pot

L. Li
Y.-w. Wang
S.-q. Zhang
X.-f. Deng
G.-x. Li*
G. Zhao*
Z. Tang*
Sichuan University, P. R. of China
Natural Products Research Center Chengdu Institution of Biology, P. R. of China
Silver-Promoted Versatile Cross-Dehydrogenative Coupling of Quinoline with Usual Ethers

39 examples
13–94% yields
R1 = F, Cl, Br, I, Me, etc
n = 1, 2