Emerging Catalyst Control in Cobalt-Catalyzed Oxidative Hydrofunctionalization Reactions

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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

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

- excellent selectivity
- broad substrate scope
- low cost of alcohols
- no stoichiometric base
- H₂ and H₂O: only byproducts
- new method to β-disubstituted ketones

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*
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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
Materiale Science IN MainZ (MAINZ), Germany
[2+2] Photocycloaddition of 3-Alkoxycoumarins with C_{60}  

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

The reaction involves the 3-alkoxycoumarins with C_{60} using 365 nm UV-LED. The single isomer of each product is observed, with yields up to 33% from 7 examples.

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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**

The reaction involves the reductive transposition of 1,2-allenols using DEAD, Ph_{3}P, and CF_{3}CH_{2}OH. 10 examples are synthesized with yields ranging from 54-86% and up to 5:1 cis:trans.

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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**

The reaction involves the electrochemical oxidation of tetrahydroisoquinolines using diethyl phosphite. 21 examples are synthesized with yields ranging from 32-86% and high regioselectivity.

*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. S. C. 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 $\alpha$-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 Quinaldine with Usual Ethers

S. Wang*  
Y. Fan  
H. Zhao  
J. Wang  
S. Zhang  
W. Wang*  

University of Jinan, P. R. of China  
Shandong Provincial Key Laboratory of Fluorine Chemistry and Chemical Materials, P. R. of China

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