Ground State Cross-Coupling of Haloarenes with Arenes Initiated by Organic Electron Donors, Formed in situ: An Overview

G. Nocera
J. A. Murphy*
University of Strathclyde, UK

Azaheterocyclic Derivatives of ortho-Carbon: Synthetic Strategies and Application Opportunities

L. A. Smyshliaeva
M. V. Varaksin
V. N. Charushin
O. N. Chupakhin*
Ural Federal University, Russian Federation
Leaving Group Ability in Nucleophilic Aromatic Amination by Sodium Hydride–Lithium Iodide Composite

J. H. Pang
D. Y. Ong
K. Watanabe
R. Takita*
S. Chiba*
Nanyang Technological University, Singapore
The University of Tokyo, Japan

Stoichiometric and Catalytic (η⁵-Cyclopentadienyl)cobalt-Mediated Cycloisomerizations of Ene-Yne-Ene Type Allyl Propargyl Ethers

C.-A. Chang
S. Gürtzgen
E. P. Johnson
K. P. C. Vollhardt*
University of California at Berkeley, USA

Practical Synthesis of Fludarabine and Nelarabine

C. Shen
J. Liu
W. Ouyang
H. Ding*
J. Bai
Q. Xiao*
Jiangxi Science & Technology Normal University, P. R. of China
**Synthesis of Spirofluorenyl-1,2,4-oxadiazinan-5-ones through Metal-Free [3+3] Cycloaddition of N-Vinyl Fluorenone Nitrones with Aza-oxyallyl Cations**

Y. Luo
C.-H. Chen
J.-Q. Zhang
C. Liang
D.-L. Mo*
Guangxi Normal University, P. R. of China

![Chemical structure](image)

24 examples
72–99% yield

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**Synthesis of Nonsymmetric Iminophosphonamines by Kirsanov Condensation**

T. A. Peganova
A. M. Kalsin*
A. N. Nesmeyanov Institute of Organoelement Compounds, Russian Federation

![Chemical structure](image)

Isolated yields 58–80% in one pot

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**Facile Access to 1,4-Disubstituted Pyrrolo[1,2-a]pyrazines from α-Aminoacetonitriles**

A. Karmakar
S. Ramalingam
M. Basha
G. K. Indasi
M. Belema
N. A. Meanwell
T. G. M. Dhar
R. Rampulla
A. Mathur
A. Gupta
A. K. Gupta*
Biocon Bristol Myers Squibb Research Centre, India

![Chemical structure](image)

16 examples
yields 51–68%

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Synthesis of N-(Hetero)arylconvolvine Derivatives through a Palladium-Catalyzed Buchwald–Hartwig Cross-Coupling

M. Hassine
H. B. Jannet*
N. Ghermani
M. Alami
S. Messaoudi*
University Paris-Saclay, France
University of Monastir, Tunisia

First Pd-catalyzed C(sp2)–N arylation of tropanone
Mild and operationally simple reaction conditions
Broad substrate scope and high FG tolerance
Antiproliferative activity

Iodine-Mediated Oxidative Cyclization of 2-(Pyridin-2-yl)acetate Derivatives with Alkynes: Condition-Controlled Selective Synthesis of Multisubstituted Indolizines

L. He
Y. Yang*
X. Liu
G. Liang
C. Li
D. Wang
W. Pan*
Guizhou Medical University, P. R. of China
The Key Laboratory of Chemistry for Natural Products of Guizhou Province and Chinese Academy of Sciences, P. R. of China

Metal-Free Oxidative Coupling of Tetrahydroisoquinolines and 3-Fluorooxindoles on Water

J. Ji
L.-Y. Chen*
Z.-B. Qiu
X. Ren
Y. Li*
Shanghai University of Engineering Science, P. R. of China