



Phosphine-Catalyzed Direct δ -Carbon Addition of Alkynones to Electron-Deficient Carbonyl-Group-Containing Compounds: Preparation of Conjugated Dienes

All about the δ Carbon: The unexplored δ -carbon of alkynones could be activated as a nucleophilic reaction site and trapped by electron-deficient carbonyl-group-containing compounds upon phosphine catalysis, providing diverse δ -addition and isomerization products in moderate to excellent yields.

[Full Paper] Yao-Liang Sun, Xiao-Nan Zhang, Yin Wei, Min Shi ChemCatChem, September 01, 2016, DOI: 10.1002/cctc.201600811. Read article



https://application.wiley-vch.de/util/hottopics/c-c-c...





Versatile Suzuki cross-coupling reactions between arylboronic acids and triphenylenyl triflates generate a rich diversity of attractive functional discogens.

[Full Paper]

Ke-Qing Zhao, Yue Gao, Wen-Hao Yu, Ping Hu, Bi-Qin Wang, Benoît Heinrich, Bertrand Donnio *Eur. J. Org. Chem.*, April 13, 2016, DOI: 10.1002/ejoc.201600270. Read article.

Water-Soluble C-Scorpionate Complexes – Catalytic and Biological Applications



Water-soluble carbon homoscorpionates and their coordination chemistry are reviewed. Moreover, the application of the resulting water-soluble tris(pyrazol-1-yl)methane metal complexes as catalysts for C–C bond formation and oxidative functionalization as well as their use as antiproliferative and antimicrobial agents are addressed.

[Microreview]

Luísa M. D. R. S. Martins, Armando J. L. Pombeiro *Eur. J. Inorg. Chem.*, March 31, 2016, DOI: 10.1002/ejic.201600053. Read article.

Multicomponent Cascade Synthesis of Biaryl-Based Chalcones in Pure Water and in an Aqueous Micellar Environment



biaryl(hetero)chalcones in good to excellent yields.

[Full Paper]

Nicola Armenise, Danilo Malferrari, Sara Ricciardulli, Paola Galletti, Emilio Tagliavini *Eur. J. Org. Chem.*, March 2, 2016, DOI: 10.1002/ejoc.201600095. Read article.

Allylic C–H Activation of Olefins by a Tp^{Me2}Ir^{III} Compound



The Ir^{III} complex [Tp^{Me2}Ir(C₆H₅)₂(N₂)] [Tp^{Me2} = hydridotris(3,5-dimethylpyrazolyl)borate] reacts with different olefins to yield organometallic compounds that derive from allylic C–H activations in processes that also generate organic coupling products that involve the vinylic positions of the olefin.

aldol condensation reaction to give

[Full Paper] Crispín Cristóbal, Laura L. Santos, Rubén

Gutiérrez-González, Eleuterio Alvarez, Margarita Paneque, Manuel L. Poveda Eur. J. Inorg. Chem., January 19, 2016, DOI: 10.1002/ejic.201501253. Read article.

Triphenylphosphine-Mediated Deoxygenative Reduction of CF₃SO₂Na and Its Application for Trifluoromethylthiolation of Aryl lodides

- Ar-SCF high value chemicals CUSCE O Na CuC ligand LCu-SCF3 inexpensive and stable source versatile copper reagents of SCF3

Efficient synthesis! A low cost method for the generation of CuSCF₃ by a triphenylphospine-mediated deoxygenative reduction of Langlois' reagent (CF₃SO₂Na) has been developed (see scheme). This method can be applied for the convenient synthesis of a wide array of ligated and air-stable CuSCF₃ complexes. Additionally, the CuSCF₃ complexes generated in situ by this protocol were found to trifluoromethylthiolate (hetero)aryl iodides with high efficiency.

