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Original articles

Reversible photoswitching aggregation and dissolution of spiropyran-functionalized copolymer and light-responsive FRET process

Chinese Chemical Letters 25 (2014) 389

Lei-Xiao Yu, Yang Liu, Si-Chong Chen, Yue Guan, Yu-Zhong Wang

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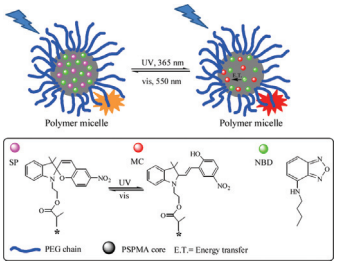
Well-defined amphiphilic diblock copolymer decorated with spiropyran exhibits good reversible photoswitchable and FRET light-responsive properties, which would have a potential application in drug delivery and cell imaging and tracking synchronously.



Rh(I)-catalyzed borylation of primary alkyl chlorides

Chinese Chemical Letters 25 (2014) 397

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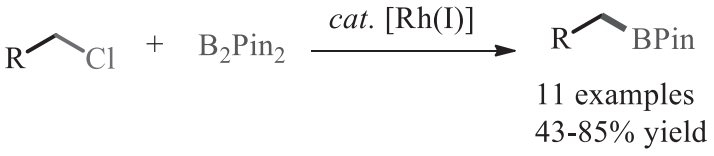
Rhodium-catalyzed cross-coupling reactions of unactivated primary alkyl chlorides with diboron reagents have been developed as practical methods for the synthesis of alkylboronic esters. These reactions expands the concept and utility of Rh(I)-catalyzed cross-coupling of aliphatic electrophiles.



A highly flexible green synthesis of 1*H*-pyrazolo[1,2-b]phthalazine-5,10-dione derivatives with CuI nanoparticles as catalyst under solvent-free conditions

Chinese Chemical Letters 25 (2014) 401

Javad Safaei-Ghomi, Hossein Shahbazi-Alavi, Abolfazl Ziarati, Raheleh Teymuri, Mohammad Reza Saberi

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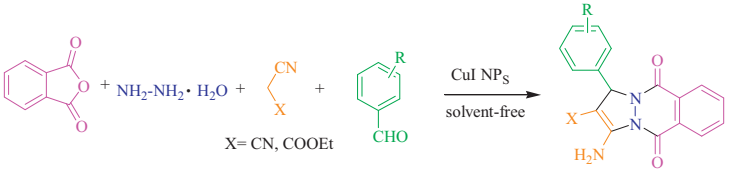
Four-component reaction condensation of phthalic anhydride, hydrazine monohydrate, aromatic aldehydes and malononitrile or ethyl cyanoacetate catalyzed by nano CuI.



doi:10.1016/S1001-8417(14)00073-4