D.-G. YU, M. YU, B.-T. GUAN, B.-J. LI, Y. ZHENG, Z.-H. WU, Z.-J. SHI* (PEKING UNIVERSITY, BEIJING, P. R. OF CHINA)

Carbon–Carbon Formation via Ni-Catalyzed Suzuki–Miyaura Coupling through C–CN Bond Cleavage of Aryl Nitrile
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Suzuki–Miyaura Coupling through C–CN Bond Cleavage

Category

Metal-Mediated
Synthesis

Key words

nickel catalysis

arylation

C–C bond formation

C–CN cleavage

SYNFACT
of the month

Selected examples:

Selected examples:

Orthogonal Suzuki-coupling:

Significance: A Ni-catalyzed Suzuki–Miyaura coupling is reported proceeding through C–CN bond cleavage. Various functionalized aryl nitriles could be efficiently arylated.

Comment: The reaction tolerates ester and amide functionalities. It was used in the sequential arylation of 3-chloro-5-methoxybenzonitrile leading to unsymmetrically substituted triarylbenzene.

SYNFACTS Contributors: Paul Knochel, Tobias Thaler
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