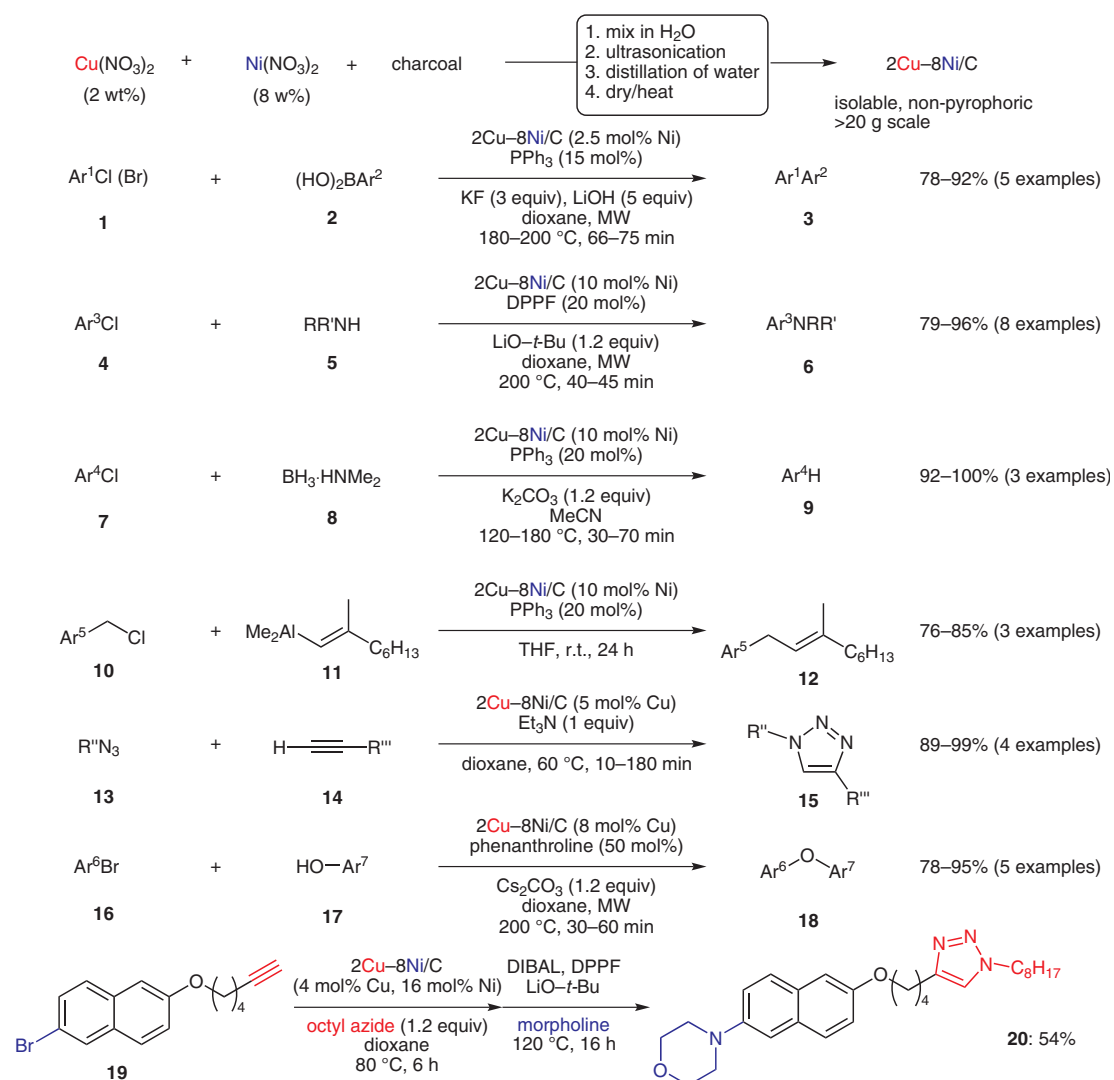


A Bimetallic, Heterogeneous, Multifunctional Catalyst



Significance: A bimetallic heterogeneous catalyst, 2Cu-8Ni/C , of copper and nickel oxide particles in charcoal was prepared. The resulting catalyst promoted a variety of cross-couplings typically associated with group 10 and 11 transition metal catalysts. The catalyst was reused once without loss of catalytic activity.

Comment: More than one metal are housed in the solid support, and hence, the resulting catalyst mediates multiple types of bond constructions. A tandem click reaction–amination of **19** was carried out with the multifunctional catalyst to give the coupling product **20** in 54%.

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