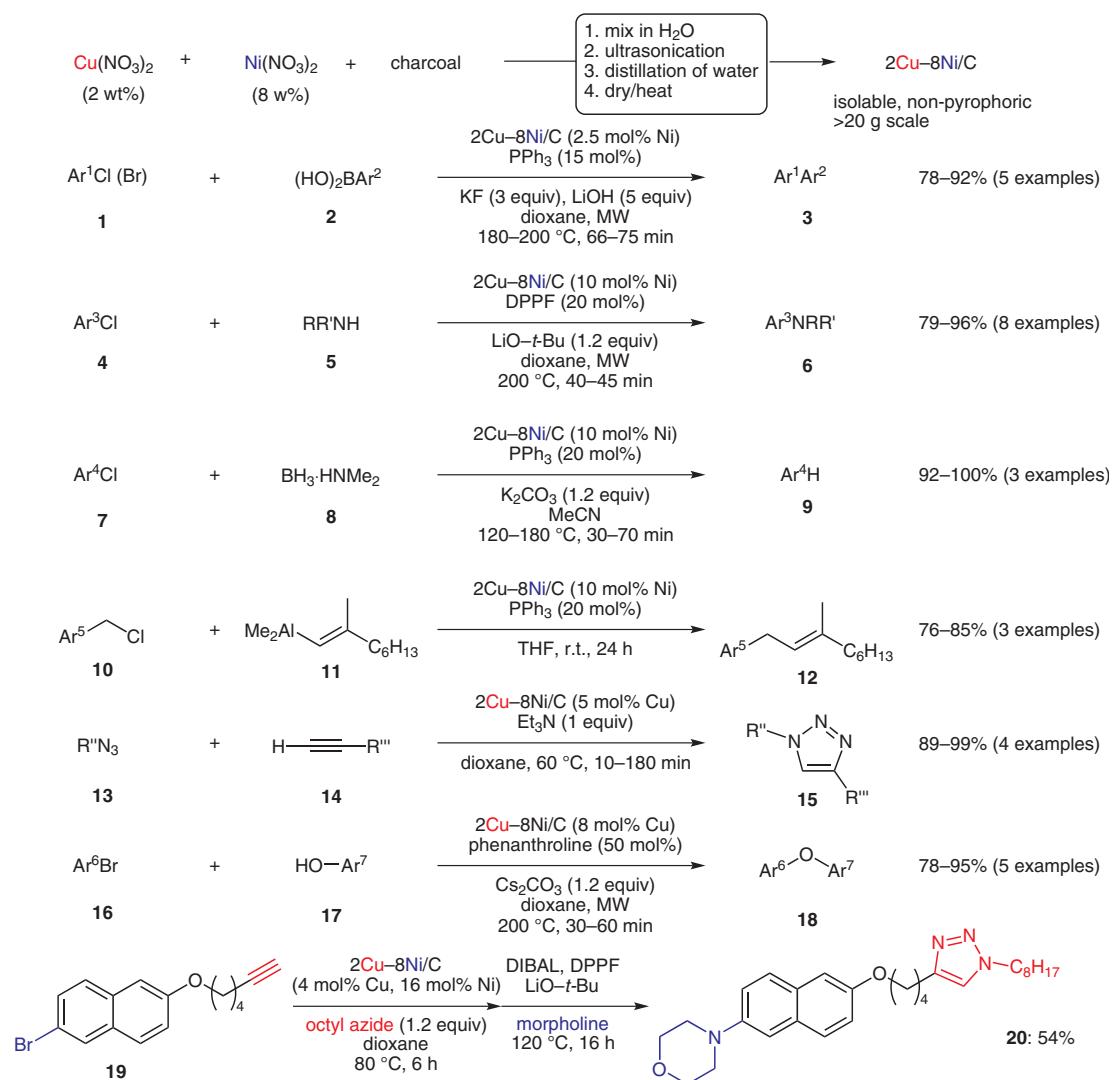


# A Bimetallic, Heterogeneous, Multifunctional Catalyst



**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%.

Category
Polymer-Supported Synthesis
Key words
multifunctional catalysts
cross-coupling
nickel
copper
charcoal

**SYNFACT**  
*of the month*