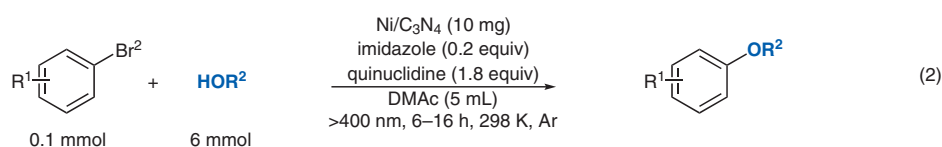
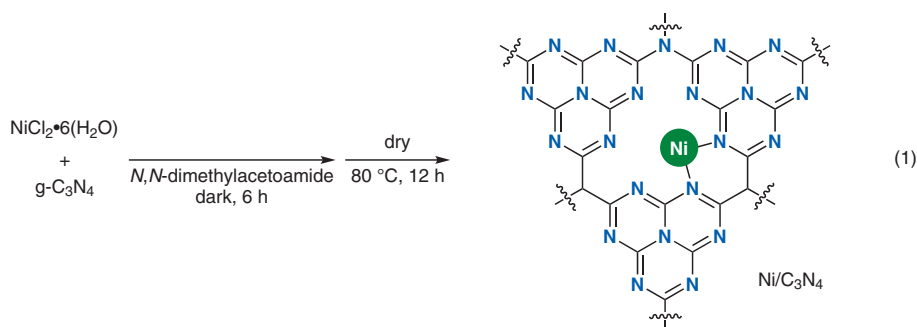
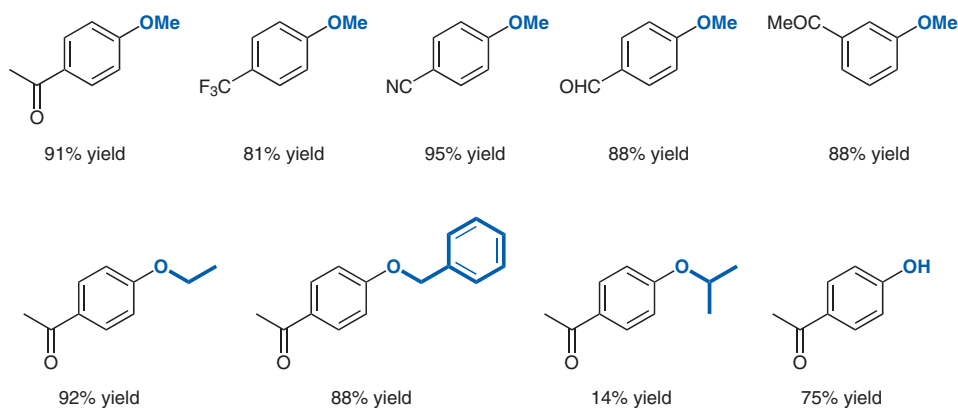


X. ZHAO, C. DENG, D. MENG, H. JI, C. CHEN, W. SONG*, J. ZHAO (INSTITUTE OF CHEMISTRY, CHINESE ACADEMY OF SCIENCES, BEIJING, CHINA)
 Nickel-Coordinated Carbon Nitride as a Metallaphotoredox Platform for the Cross-Coupling of Aryl Halides with Alcohols
ACS Catal. **2020**, *10*, 15178–15185, DOI: 10.1021/acscatal.0c04725.

Photoredox C–O Cross Coupling of Aryl Halides and Alcohols on Nickel-Coordinated Carbon Nitride



Selected results:



Significance: Nickel-coordinated graphitic carbon nitride ($\text{Ni/g-C}_3\text{N}_4$), prepared according to Equation 1, catalyzed the C–O cross coupling of aryl bromides with alcohols under visible-light irradiation to give the corresponding aryl ethers in $\leq 95\%$ isolated yield.

Comment: The preparation of $\text{g-C}_3\text{N}_4$ has been previously reported (X. Li et al. *J. Phys. Chem. Solids*, **2014**, *75*, 441). In the C–O cross coupling of 4'-bromoacetophenone with MeOH, $\text{Ni/C}_3\text{N}_4$ was recovered and reused four times without significant loss of its catalytic activity.