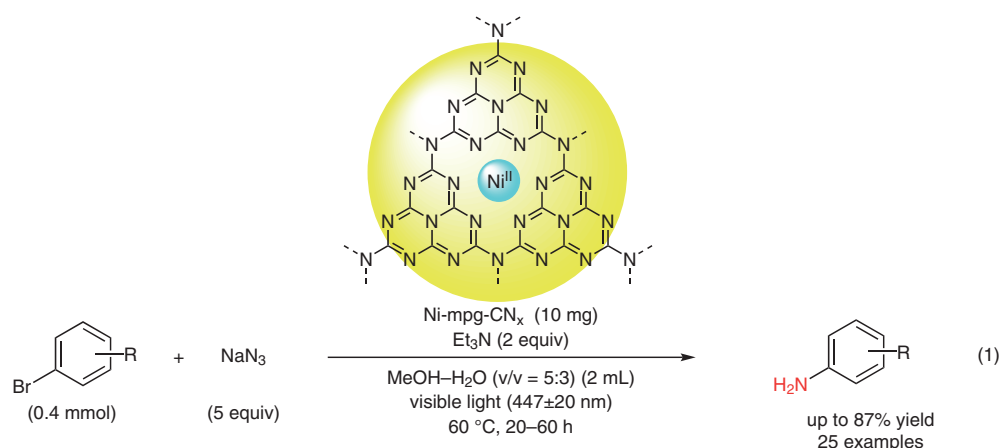
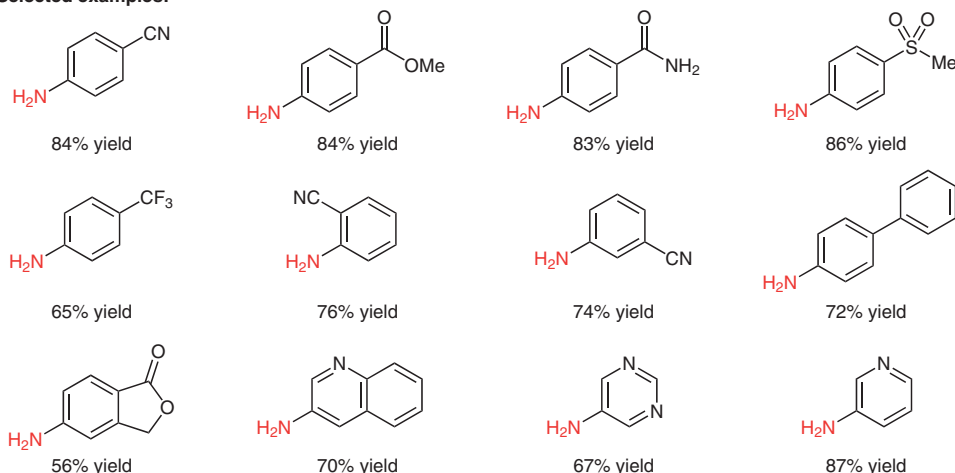


Photocatalytic Synthesis of Primary Aryl Amines from Aryl Halides and Sodium Azide by Ni on Carbon Nitride



Selected examples:



Significance: A nickel-deposited mesoporous carbon nitride (Ni-mpg-CN_x) catalyzed the amination of aryl bromides with sodium azide in aqueous methanol in the presence of triethylamine as a base/electron donor under visible-light irradiation to give the corresponding primary aryl amines in ≤87% yield.

Comment: The authors have previously reported the preparation of Ni-mpg-CN_x and its application in the etherification of aryl halides with alcohols (*Angew. Chem. Int. Ed.* **2021**, *60*, 8494). In the reaction of 4-bromobenzonitrile, the catalyst was recovered by centrifugation and reused three times with a gradual loss of its catalytic activity (fresh: 84% yield; 4th run: 75% yield).