Desilylative or Decarboxylative Photoadditions with Graphitic Carbon Nitride

**Significance:** A graphitic carbon nitride (g-C$_3$N$_4$) catalyzed the desilylative addition of $\alpha$-silylamines to alkenes or heteroaryl chlorides under visible-light irradiation to give the corresponding adducts in up to 96% yield (eq. 1). g-C$_3$N$_4$ also promoted the decarboxylative additions of $\alpha$-amino acids to alkenes under similar conditions to afford the corresponding products in up to 79% yield (eq. 2).

**Comment:** In the desilylative addition of N-methyl-$\alpha$-[trimethylsilyl]methyl]aniline to 4-(2,2-dicyanoethenyl)toluene, g-C$_3$N$_4$ was reused eight times without significant loss of its catalytic activity, g-C$_3$N$_4$ was applied for the continuous-flow reaction of N-methyl-$\alpha$-[trimethylsilyl]methyl]aniline with cyclohexanone to afford the desired amine in 85% yield.