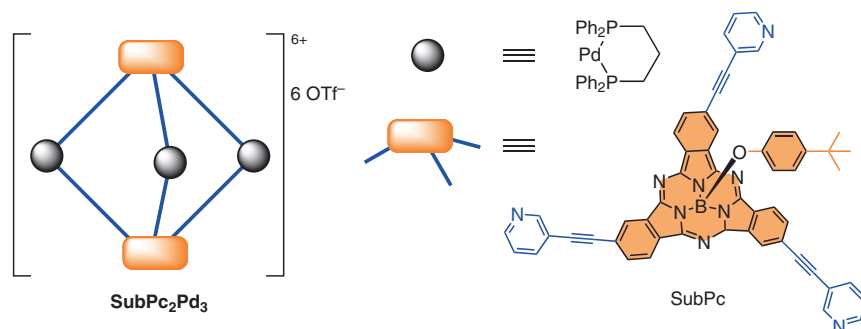
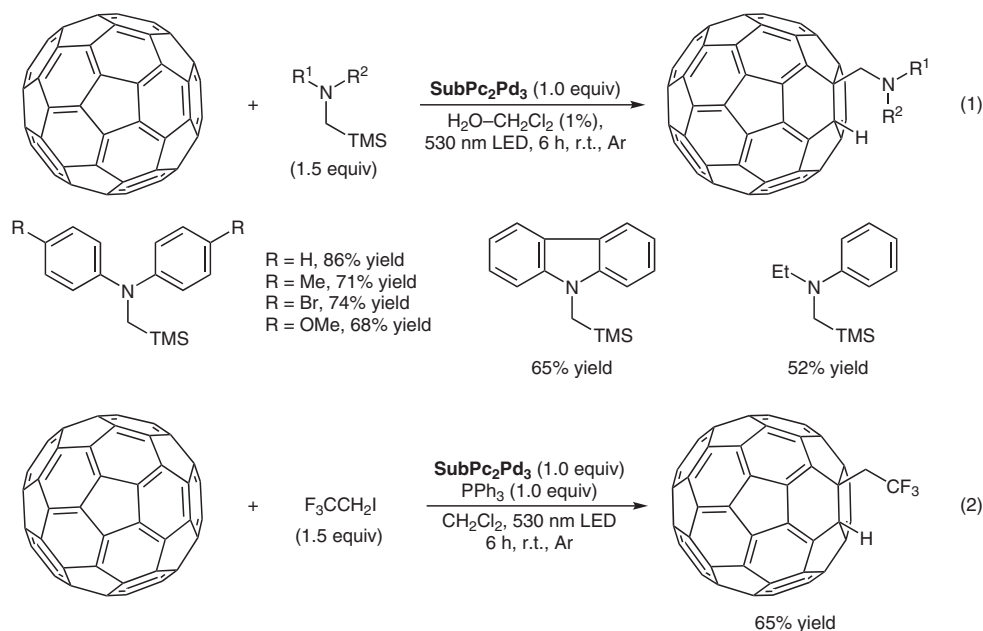


## Amination and Trifluoroethylation of Fullerenes Promoted by Subphthalocyanine Capsules



### Results:



**Significance:** A dimeric subphthalocyanine (SubPc) capsule (**SubPc<sub>2</sub>Pd<sub>3</sub>**) promoted the amination of C<sub>60</sub> fullerene with aromatic (trimethylsilyl)amines in H<sub>2</sub>O/CH<sub>2</sub>Cl<sub>2</sub> and the trifluoroethylation with CF<sub>3</sub>CH<sub>2</sub>I in CH<sub>2</sub>Cl<sub>2</sub> under green-light irradiation to give the corresponding products in up to 86% yield (eqs. 1 and 2).

**Comment:** **SubPc<sub>2</sub>Pd<sub>3</sub>** was prepared according to a previously reported method (*J. Am. Chem. Soc.* **2013**, *135*, 10503). It showed a much higher activity than monomeric SubPc in both reactions, indicating that the formation of host-guest complexes between **SubPc<sub>2</sub>Pd<sub>3</sub>** and the fullerene accelerates the reactions.