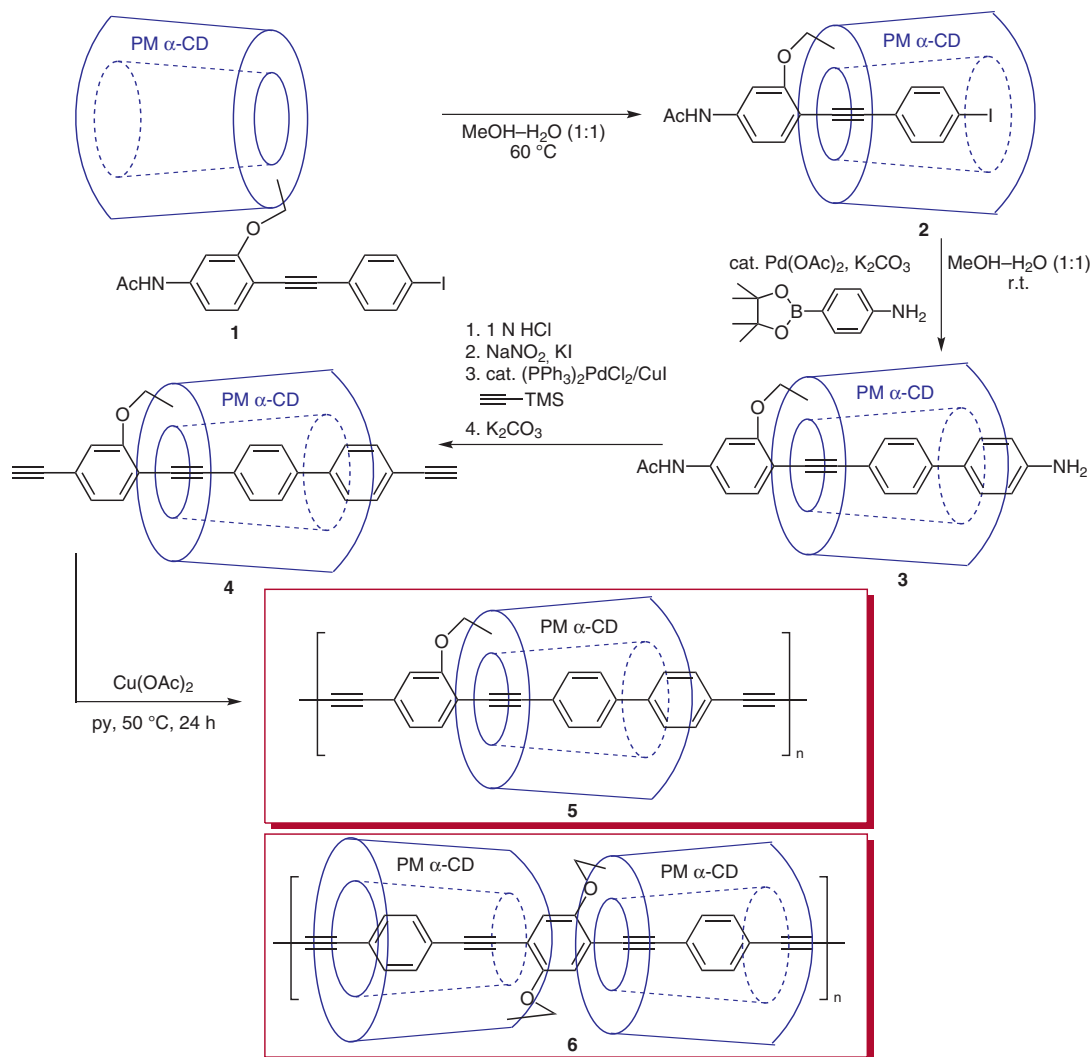


An Insulated Conjugated Polymer Wire



Significance: Insulated molecular wires are an interesting target for molecular electronics. The authors synthesize such a structure (**5**) by polymerizing **4**, in which a conjugated unit is surrounded by a permethylated α -cyclodextrin (PM α -CD). Intermediate **3** is obtained using a recently reported route (S. Tsuda, J. Terao, N. Kambe *Chem. Lett.* **2009**, 38, 76).

Comment: Polymer **6** containing repeat units with two PM α -CD moieties was synthesized using the same strategy. Compared to the equivalent in which PM α -CD units are attached at the same positions but not including the conjugated system through a host-guest pair, it shows a significantly higher solid-state quantum yield (23% vs. 6%). This suggests shielding of the molecular wire in **6**.