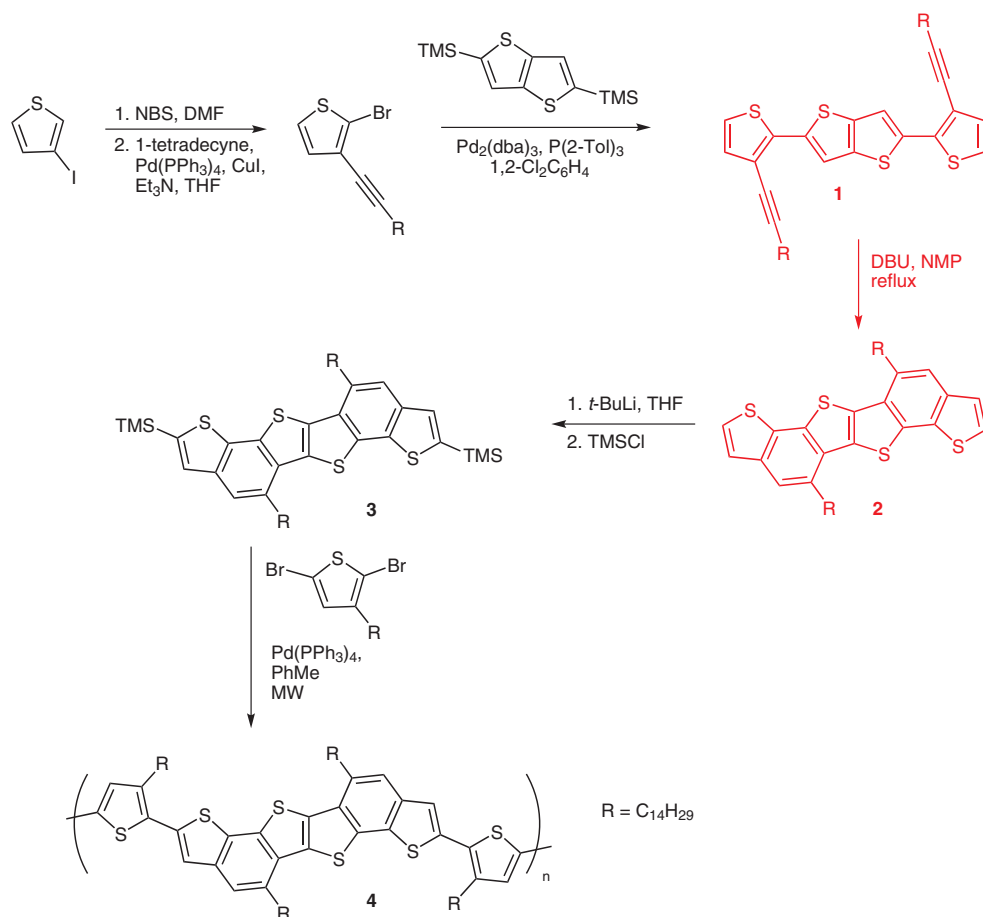


An Extended Polythiophene with Interesting Core Synthesis



Significance: A novel extended polythiophene derivative **4** was synthesized ($M_n = 18$ kDa, PDI = 2.3). The key step in the monomer synthesis (**1** → **2**) is accomplished in 78% yield by a novel base-induced cyclization.

Comment: The authors attempted to synthesize a homopolymer of the brominated analogue of **3** via a nickel-catalyzed dehalogenation, but a soluble polymer could not be obtained. The optical and electronic properties of **4** were found to be very similar to those of poly(3-hexylthiophene).