12 nm Soluble Wheel from c. 1878

**Significance:** The authors have designed and synthesized a soluble and highly rigid macromolecular wheel of the sum formula C_{1878}H_{2682}. The six ‘spokes’ of the hexagonal wheel are assembled, joined to the central hexaphenylbenzene unit, and cyclized via palladium coupling in a convergent and modular fashion.

**Comment:** The spokes maintain shape-persistence and further solubilize the rigid molecule with numerous dodecyl side chains. The yields in the synthetic sequence vary from modest (49%) to excellent (98%). The isolated product is a yellow fluorescent solid.