R. MAY, S.-S. JESTER,* S. HÖGER* (RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITÄT BONN, GERMANY)
A Giant Molecular Spoked Wheel

**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\textsubscript{1878}H\textsubscript{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.