Nanohoop through Anthracene Photodimerization–Cycloreversion

**Significance:** Nanohoops composed of highly strained aromatic hydrocarbons are fascinating carbon-rich structures, and creative strategies are required for their efficient syntheses. The authors utilize an anthracene photodimerization–cycloreversion strategy to make a novel nanohoop with interesting photophysical properties.

**Comment:** The rigid dianthracene scaffold approach generates the target nanohoop in excellent yields over six steps. The often critical ring-closing step was achieved in a particularly efficient manner under nickel-mediated Yamamoto coupling conditions.

**Key words**
- nanohoop
- oligoparaphenylene
- photodimerization
- cycloreversion