Cascade Cycloadditions for the Synthesis of Perylenes

**Significance:** Perylene derivatives were prepared by cascade \([4+2]\) cycloadditions between 1,8-difurylnaphthalene and arynes. The double Diels–Alder reaction proceeds in a highly stereoselective fashion and only the \(\text{exo,exo}\) -diastereomer (3a–c) is formed as confirmed by X-ray crystallographic studies.

**Comment:** The synthetic method allows facile preparation of extended perylenes, which are potential molecular electronic materials. Further study on substituted derivatives with better solubility and stability is desirable.