Cascade Cycloadditions for the Synthesis of Perylenes

**Significance:** Perylene derivatives were prepared by cascade [4+2] cycloadditions between 1,8-di-furylnaphthalene and arynes. The double Diels–Alder reaction proceeds in a highly stereoselective fashion and only the 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.

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Synfacts 2010, 11, 1237-1237  Published online: 21.10.2010

DOI: 10.1055/s-0030-1258730; Reg-No.: S12310SF