Supporting Information

Controlling the lateral aggregation of perfluoroalkylated hexa-peri-hexabenzocoronenes

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Figure S1: Micrographs obtained by cryo-SEM of HBC-[(CH₂)₄(CF₂)₆F]₆ (1a) nanostructures in a hexafluorobenzene solution (10⁻³ M).

Figure S2: Micrographs obtained by cryo-SEM of HBC-[(CH₂)₄(CF₂)₆F]₆ (1a) nanostructures in a benzotrifluoride solution (10⁻⁵ M).
**Figure S3:** Micrographs obtained by cryo-SEM of HBC-[(CH$_2$)$_4$(CF$_2$)$_6$F]$_6$ (1a) nanostructures in a BTF solution (10$^{-6}$ M).

**Figure S4:** Micrographs obtained by SEM of HBC-[(CH$_2$)$_4$(CF$_2$)$_6$F]$_6$ (1a) nanostructures of a trichlorobenzene solution (10$^{-7}$ M).
Figure S5: Micrographs obtained by cryo-SEM of HBC-[(CH<sub>2</sub>)<sub>4</sub>(CF<sub>2</sub>)<sub>8</sub>F<sub>6</sub>] (1b) nanostructures in trichlorobenzene.

Figure S6: XRD pattern of HBC 2 at various temperatures

Figure S7: DSC trace of HBC 1a