Selective diameter uptake of single-walled carbon nanotubes in water using phosphonated calixarenes and ‘extended arm’ sulfonated calixarenes

Supporting Information

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Supplementary Figure 1. Raman spectrum of the ‘blank’ aluminium foil, inset of the typical radial breathing mode frequency range. These ‘baseline’ frequencies were taken into account for the analysis of the as-received SWCNTs and supernatant residues. This also represents the spectrum obtained when analysing calixarene control samples.
**Supplementary Figure 2a.** UV-visible spectra of the p-phosphonated calixarenes (1A-3A) and p-sulfonated calixarenes (4A-4C).

**Supplementary Figure 2b.** UV-visible spectra of the p-phosphonated calixarenes (1A-3A)/ SWNT supernatants and p-sulfonated calixarenes (4A-4C) / SWCNT supernatants.