Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Electronic Supporting Information

Porphyrin stacks as an efficient molecular glue to induce chirality in hetero-component calixarene-porphyrin assemblies

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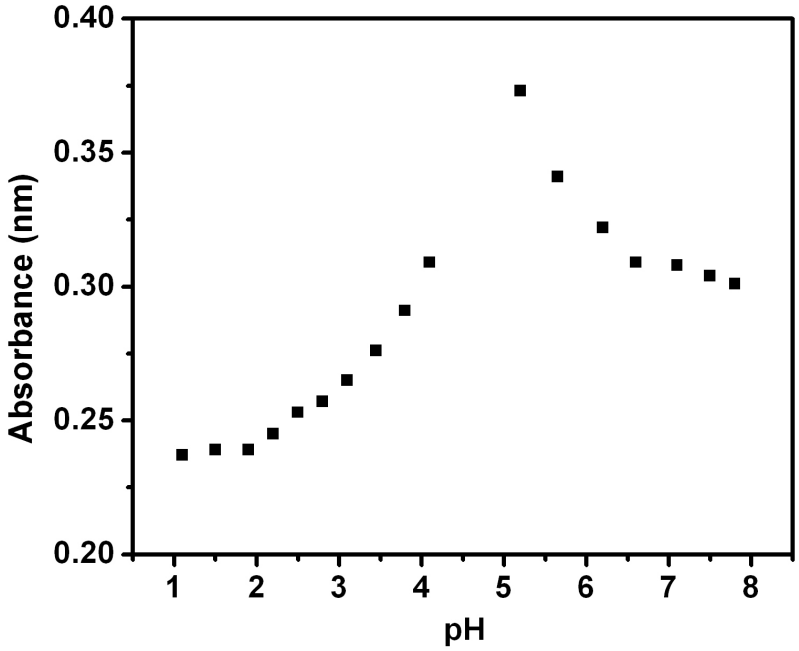

Figure S1. Absorbance variation (at 304 nm) *vs* pH of a 10 μM solution of tris-calix[4]arene **TC4**.

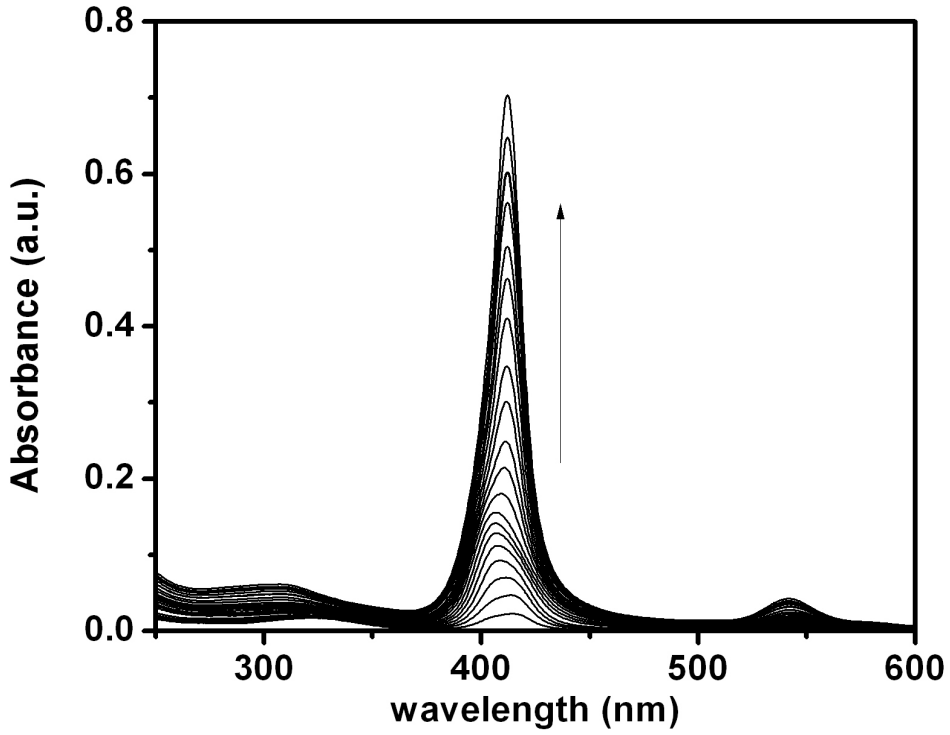

Figure S2. UV absorption spectra (λ_{max}= 412 nm) recorded over the course of the titration of an aqueous solution of tris-calix[4]arene **TC4** (0.5 μM) with successive aliquots of an aqueous solution of **CuTPPS** ([**CuTPPS**] ranged from 0.125 to 2.5 μM).

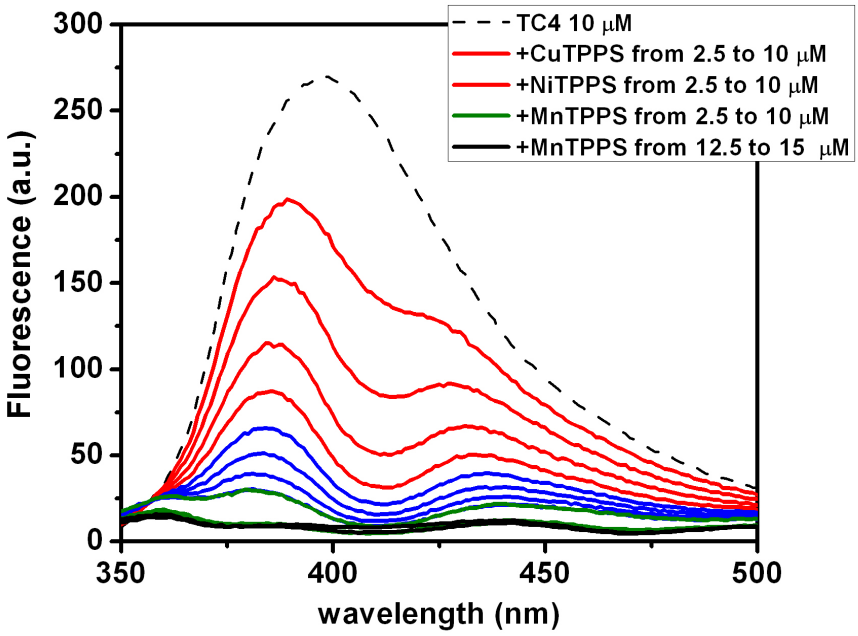

Figure S3. Fluorescence titration of an aqueous solution of tris-calix[4]arene **TC4** (10 μM) with successive aliquots of aqueous solutions of **CuTPPS** ([**CuTPPS**] ranged from 2.5 μM to 10 μM), **NiTPPS** ([**NiTPPS**] ranged from 2.5 μM to 10 μM) and **MnTPPS** ([**MnTPPS**] ranged from 2.5 μM to 15 μM).

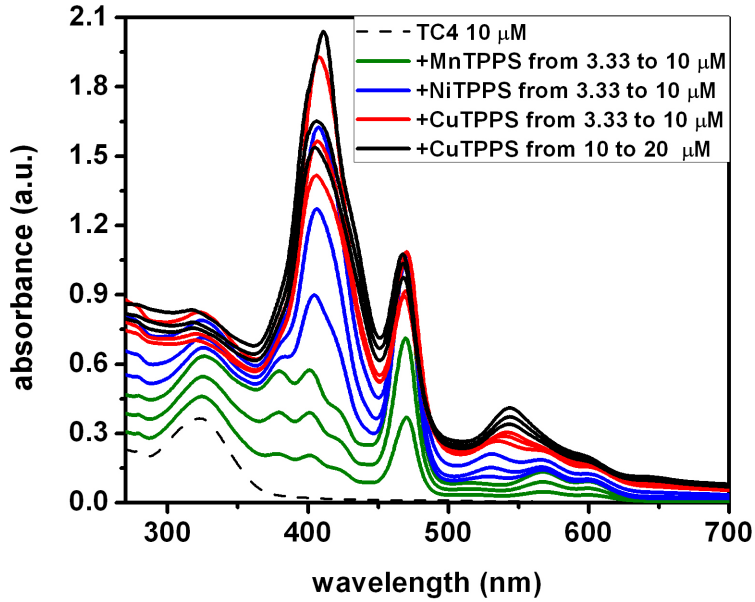

Figure S4. UV titration of an aqueous solution of tris-calix[4]arene **TC4** (10 μM) with successive aliquots of aqueous solutions of **MnTPPS** ([**MnTPPS**] ranged from from 3.33 μM to 10 μM), **NiTPPS** ([**NiTPPS**] ranged from 3.33 μM to 10 μM) and **CuTPPS** ([**CuTPPS**] ranged from 3.33 μM to 20 μM).

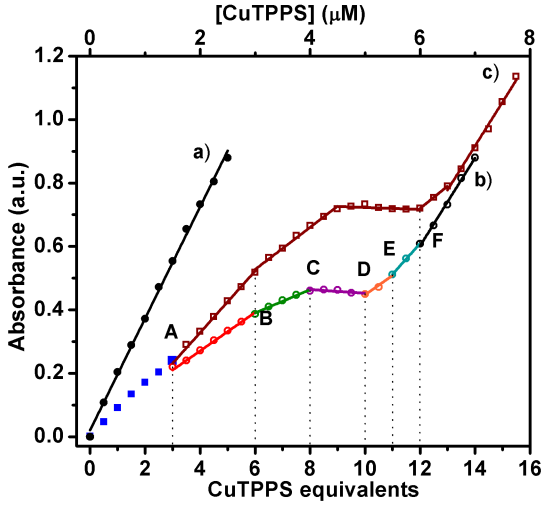

Figure S5. Variation in the absorbance of the **CuTPPS** Soret band (λ_{max} = 412 nm) observed upon: *i*) increase of the porphyrin concentration in water (black trace (a)) and *ii*) portion-wise addition of **CuTPPS** to a 0.5 μM aqueous solution of **TC4** at pH 2 (trace (b)). The almost overlapping data-points represented by the red dot and blue square refer to the absorption of the 3:1-(**CuTPPS**/**TC4**) and 3:1-9-(**CuTPPS**/**TC4**/(*S*)-**C4**) assemblies, respectively. The changes in slope of trace (b) – corresponding to break-points A, B, C, D, E and F– indicate the ratio of the components at which the 3:1:9-, 6:1:9-, 8:1:9-, 10:1:9-, 11:1:9- and 12:1:9-(**CuTPPS**/**TC4**/(*S*)-**C4**) assemblies, respectively, are fully formed. For comparison, trace (c) reports the data-points obtained in an experiment similar to the one reported in Figure 3 where first **TC4** (an additional 3 equiv.) and then **CuTPPS** (up to 13 equiv.) were added to an aqueous solution of the 3:1-(**CuTPPS**/**TC4**) core complex.