

Electronic Supporting Information:

Novel Nanohybrids based on Supramolecular Assemblies of Meso-tetrakis-(4-sulfonatophenyl) Porphyrin J-aggregates and Amine-functionalized Carbon Nanotubes

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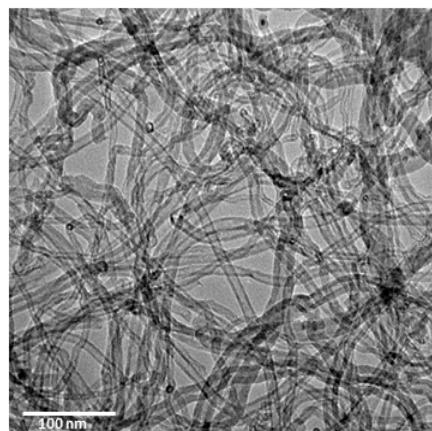


Figure S1 TEM image of pristine MWCNTs (commercially available).

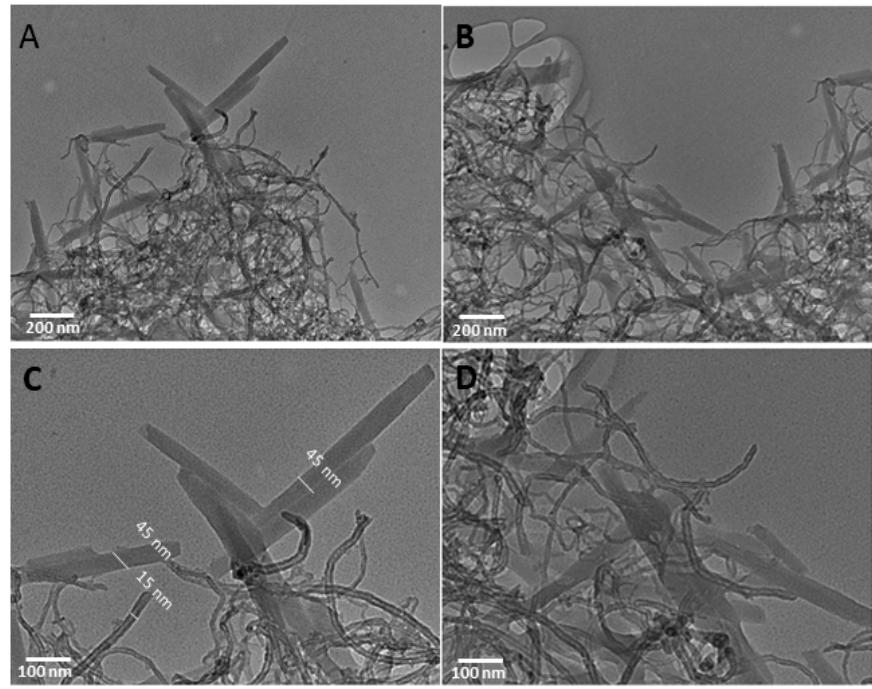


Figure S2 TEM images of MWCNT-EPA/TPPS J-aggregates at low (**A**) and (**B**), and at high resolution (**C**) and (**D**) of two different parts of the same sample (**A** corresponds to **C** and **B** to **D**; PL protocol: see Materials and Methods for preparation conditions).

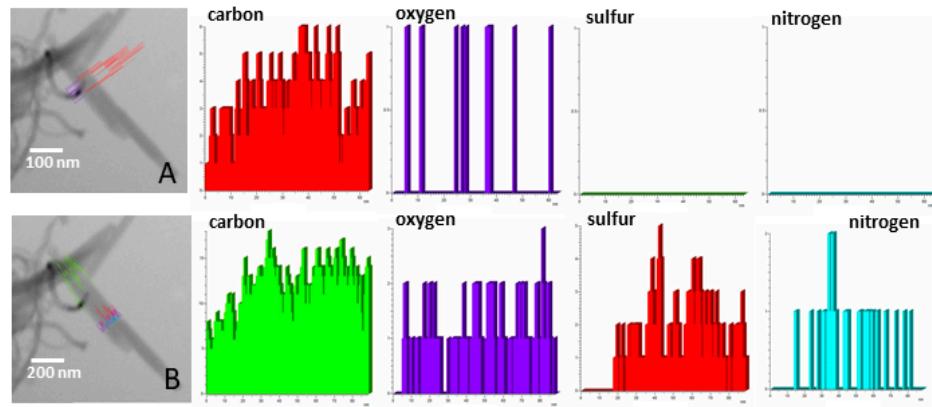


Figure S3 STEM of MWCNT-EPA/TPPS J-aggregates with linescans displaying total elemental analysis taken at 65 nm scale length. Elemental analysis was detected by peculiar element emission lines for MWCNT-EPA (**A**) and for TPPS/J-aggregates (**B**).

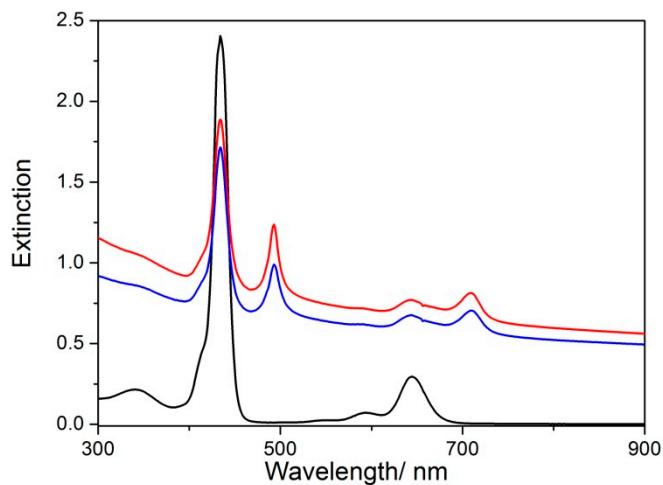


Figure S4 UV-Vis spectra of an aqueous solution of TPPS (black line) and after MWCNT-EPA addition (red line, PF protocol). As comparison the spectrum of MWCNT-EPA/TPPS J-aggregates system prepared using PL protocol is reported (blue line). Experimental conditions: [TPPS] = 5 μ M; MWCNT-EPA= 0.02 mg/mL; 10 mM citrate buffer at pH 2.4; aging time: 1 day, T= 298 K.

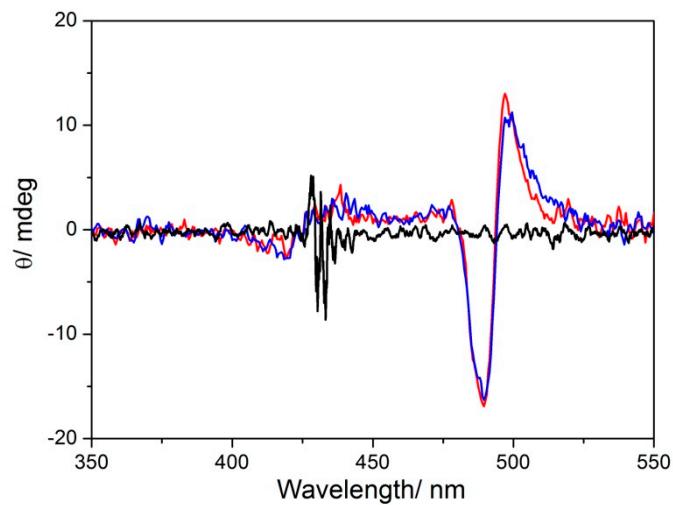


Figure S5 CD spectra of an aqueous solution of TPPS (black line) and after MWCNT-EPA addition (red line, PF protocol). As comparison the spectrum of MWCNT-EPA/TPPS J-aggregates system prepared using PL protocol is reported (blue line). Experimental conditions: [TPPS] = 5 μ M; MWCNT-EPA= 0.02 mg/mL; 10 mM citrate buffer at pH 2.4; aging time: 1 day, T= 298 K.

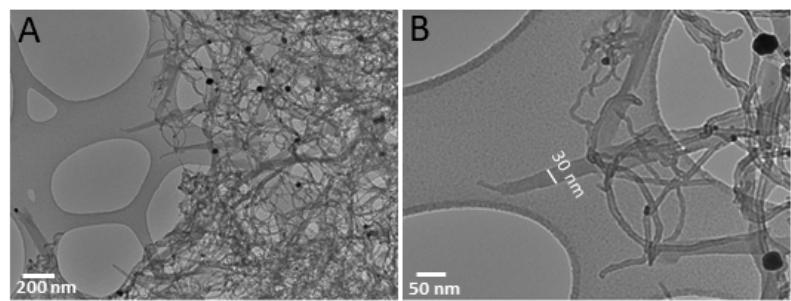


Figure S6 TEM images of TPPS J-aggregates/ MWCNT-EPA at low (**A**) and high resolution (**B**) (PF protocol: see Materials and Methods for preparation conditions).