Supplementary Material for PCCP

Supporting Information

for the paper :

Hybrid nanocomposites of CdSe nanocrystals distributed in complexing thiophene-based copolymers

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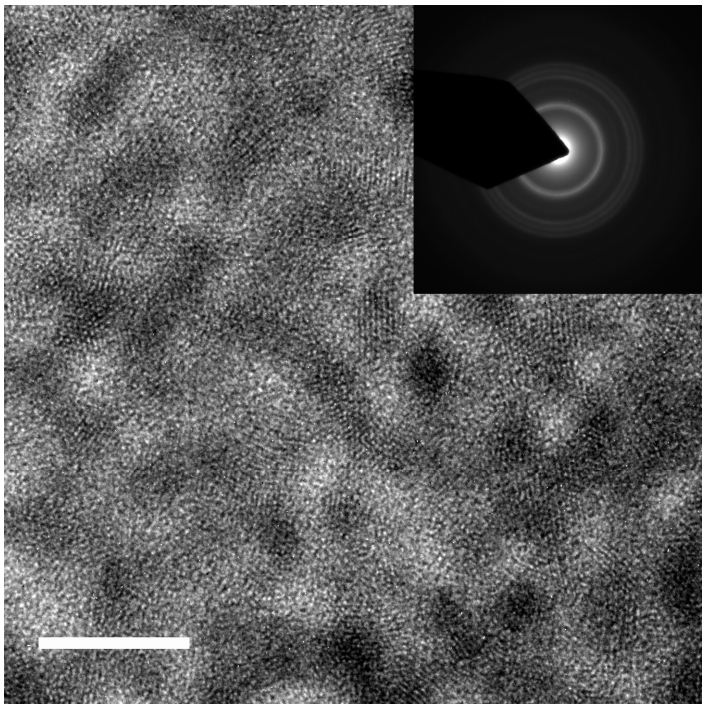

Figure S1. High Resolution Transmission Electron Microscopy (HRTEM) image of the composite sample **PA_2**-CdSe (50 wt % of nanocrystals).

Inset shows corresponding Electron Diffraction (ED) diagram. The smallest diameter Debye-Scherrer ring observed is attributed to the (002) planes of the wurtzite-like CdSe nanorods. The three larger diameter rings are attributed respectively to the (110), (103) and (102) lattice planes of the nanorods [1].

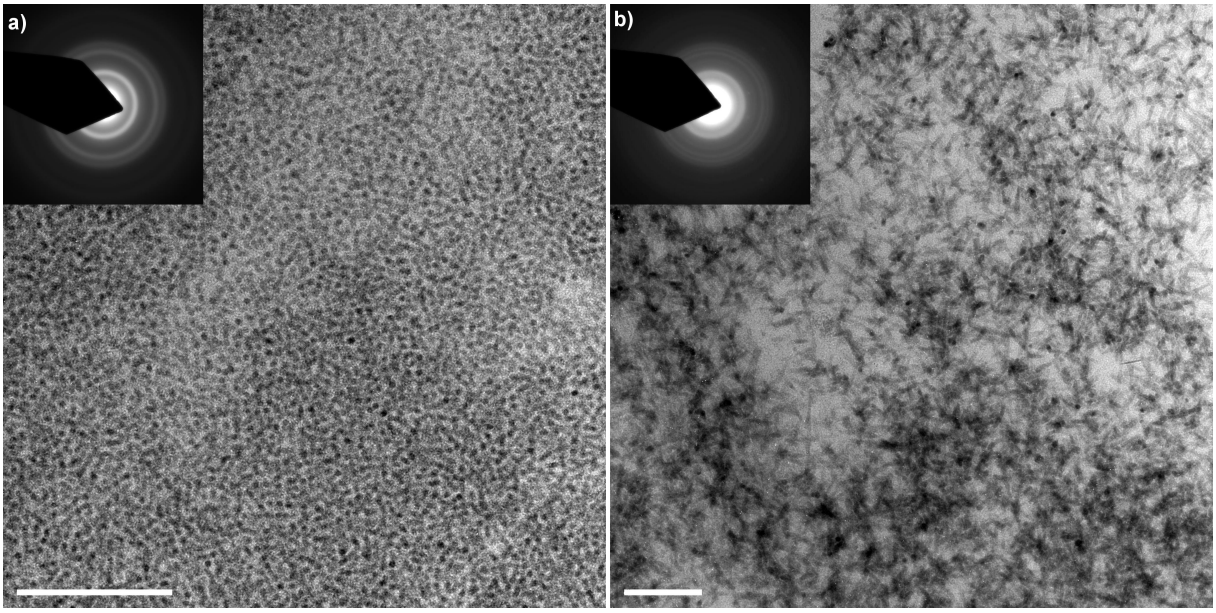

Figure S2. HRTEM images of the composites (a) **PA_2**-CdSe nanospheres (diameter - 5 nm) and (b) **PA_2**-CdSe nanorods and tetrapods (typical size of the arms 40 nm by 4.5 nm) with 50 wt % of nanocrystals. The scale bar corresponds to 100 nm.

1. X. Peng, L. Manna, W. Yang, J. Wickham, E. Scher, A. Kadanavich and A.P. Alivisatos, *Nature* 2000, **404**, 59-61.