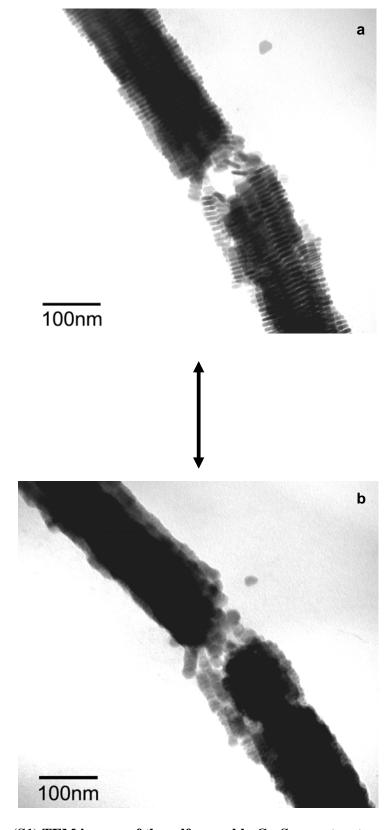
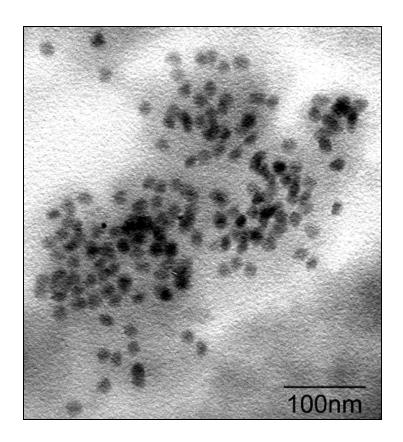
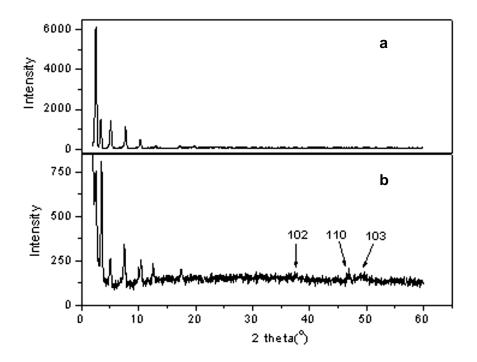
Supporting information:



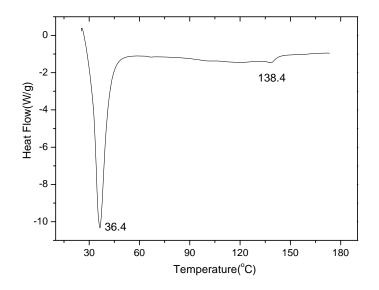
(S1) TEM images of the self assembly Cu_2S nanostructure



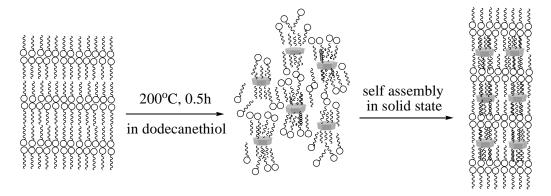
(S2): TEM images of the copper sulfide nanocrystals prepared at 180 $^{\circ}$ C for 0.3 h.



S3. XRD patterns of (a) the copper dodecanthiolate precursor, and (b) the products prepared at $$200\ ^{\circ}\!C$ for 1 h.



S4. DSC traces of the products prepared at 200 °C for 1 h.



: Copper sulfide nanoplate

? : Copper dodecanethiolate

S5. Illustration of the proposed growth and self assembly process of copper sulfide nanoplates.