

**A<sup>Phen</sup>-functionalized nanoparticles/polymer fluorescent nanocomposites via  
ligand exchange and in-situ bulk polymerization**

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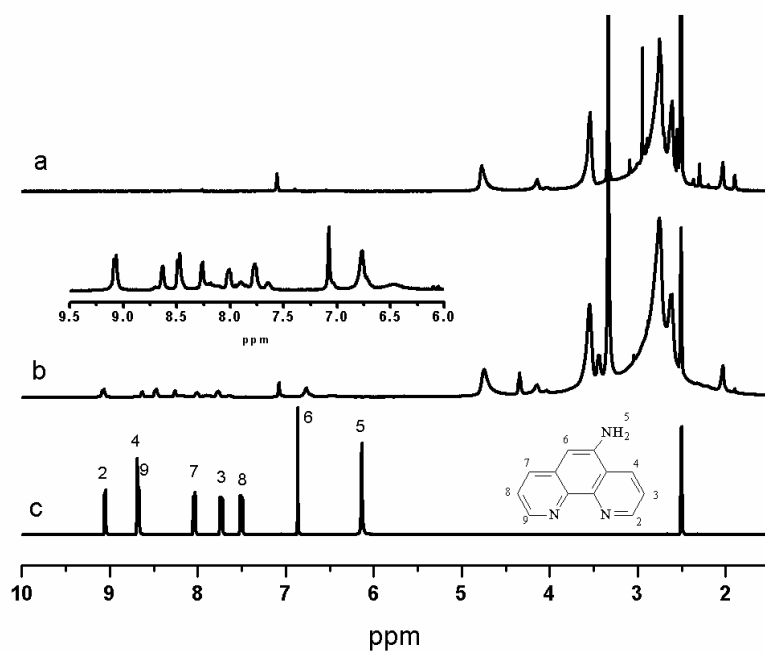


Fig. 1S. <sup>1</sup>H-NMR spectra of ME-ZnS NPs (a), APhen-ZnS NPs (I) (b) and APhen (c) in *d*<sub>6</sub>-DMSO.

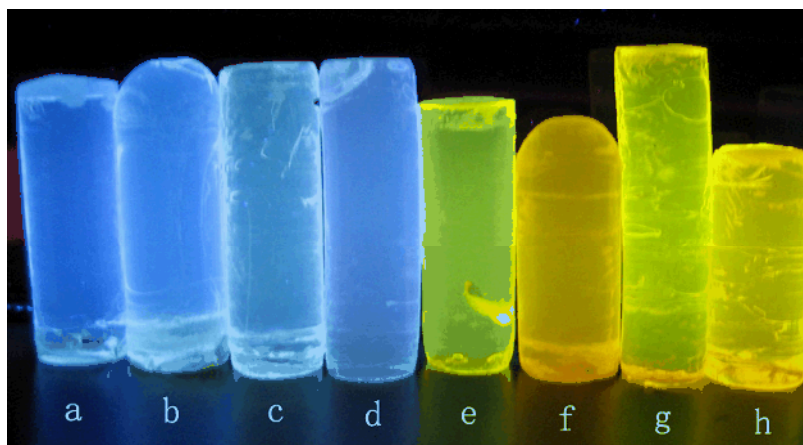


Fig.2S. PL images of different ZnS NPs/polymer bulk nanocomposites excited by an ultraviolet lamp at 360nm: (a) polymer, (b) ME-ZnS NPs(5%)/polymer, (c) ME-ZnS NPs(5%)/polymer, (d) APhen-ZnS NPs(0.5%)/polymer, (e) APhen-ZnS NPs (5%)/polymer, (f) APhen-ZnS NPs(5%)/polymer, (g) APhen-ZnS NPs(5wt%)/ polymer-MAA, (h) APhen-ZnS NPs(5%)/polymer-GMA.

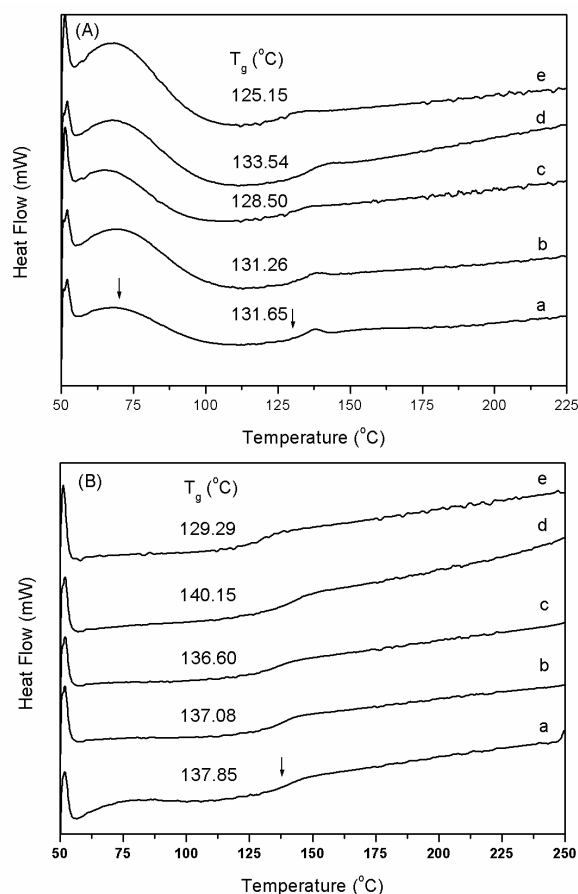


Fig.3S. DSC curves before (A) and after (B) thermal treatment for different nanocomposites: (a) polymer, (b) ME-ZnS NPs(5%)/polymer, (c) APhen-ZnS(5%) /polymer, (d) APhen-ZnS (5%)/polymer-MAA, (e) APhen-ZnS (5%)/polymer-GMA.