Supplementary Information

Formaldehyde Resin Nanoparticles Loaded with CdTe Quantum Dots: A Fluorescence Resonance Energy Transfer (FRET) Probe for Optical Visual Detection of Copper (II) Ions **

Ping Yang, Yang Zhao, Yang Lu, Qi-Zhi Xu, Xue-Wei Xu, Liang Dong, Shu-Hong Yu*

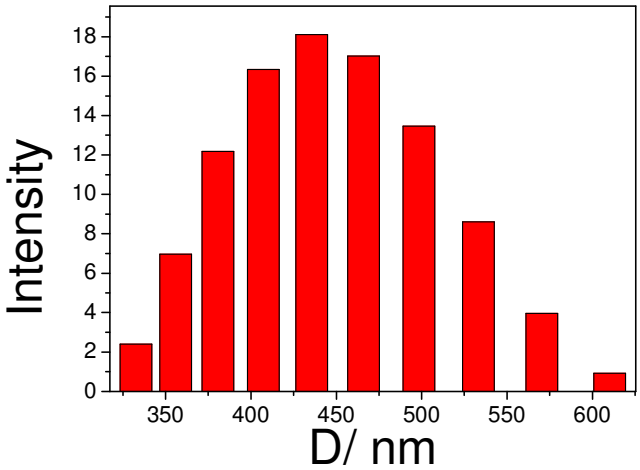

Figure S1. Hydrodynamic diameters of PFR determined by DLS.

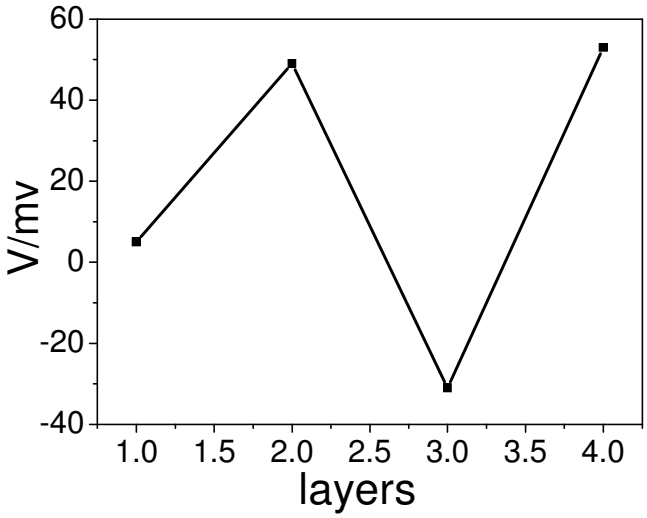

Figure S2. Zeta potentials of PFR NPs as a function of the number of layers of the polyelectrolyte: 1) naked PFR nanoparticle; 2) PFR/PEI; 3) PFR/PEI/PSS; 4) PFR/PEI/PSS/PEI.

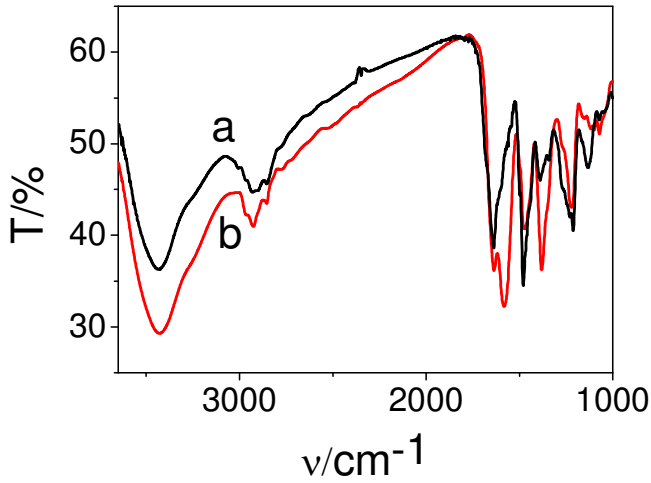

Figure S3. The FTIR spectra of the as-prepared PFR (curve a) and PFR-QDs (curve b) nanocomposites.

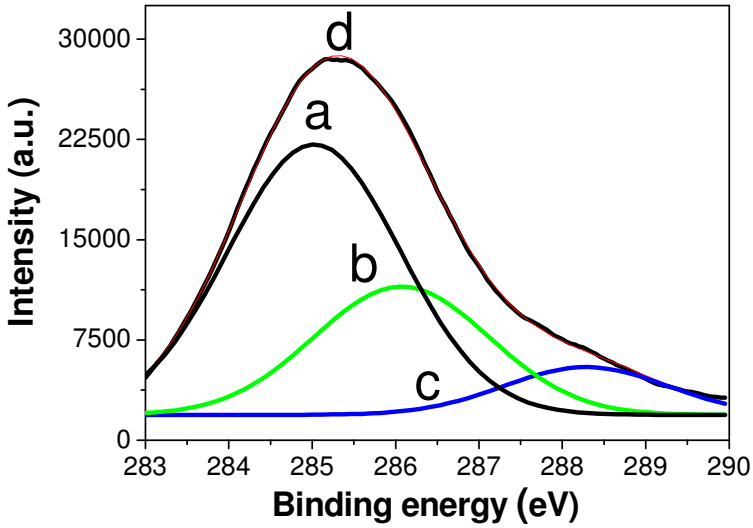

Figure S4. Peak deconvolution of C(1s) XPS of the as-prepared PFR-QDs nanocomposites (curve a, C-C&C=C; curve b, C-O; curve c, O=C-N； curve d, fitted peak).