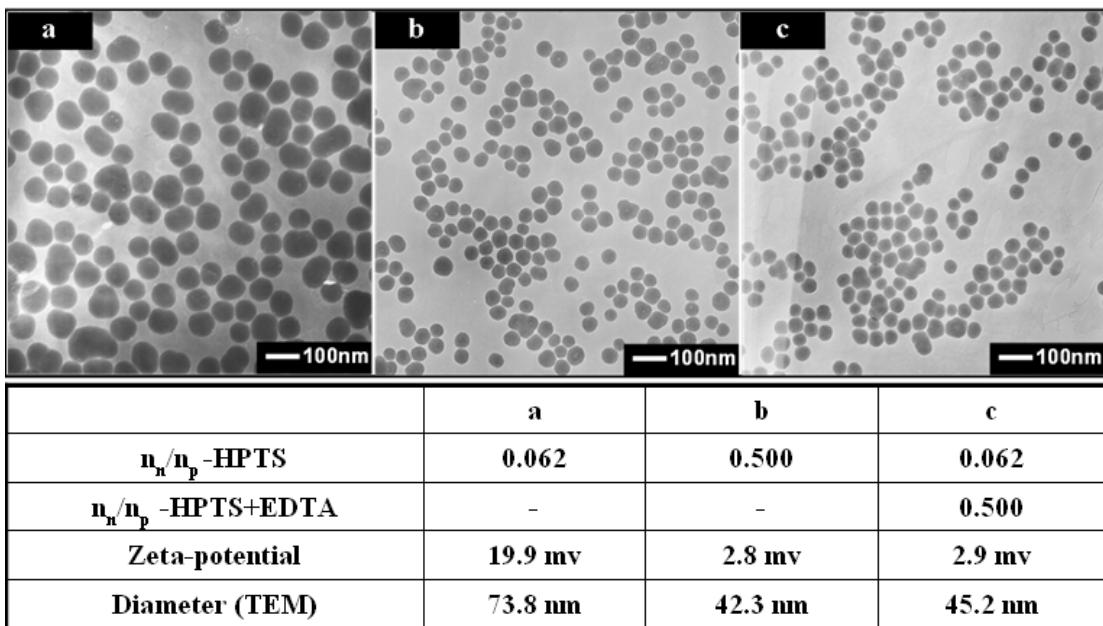


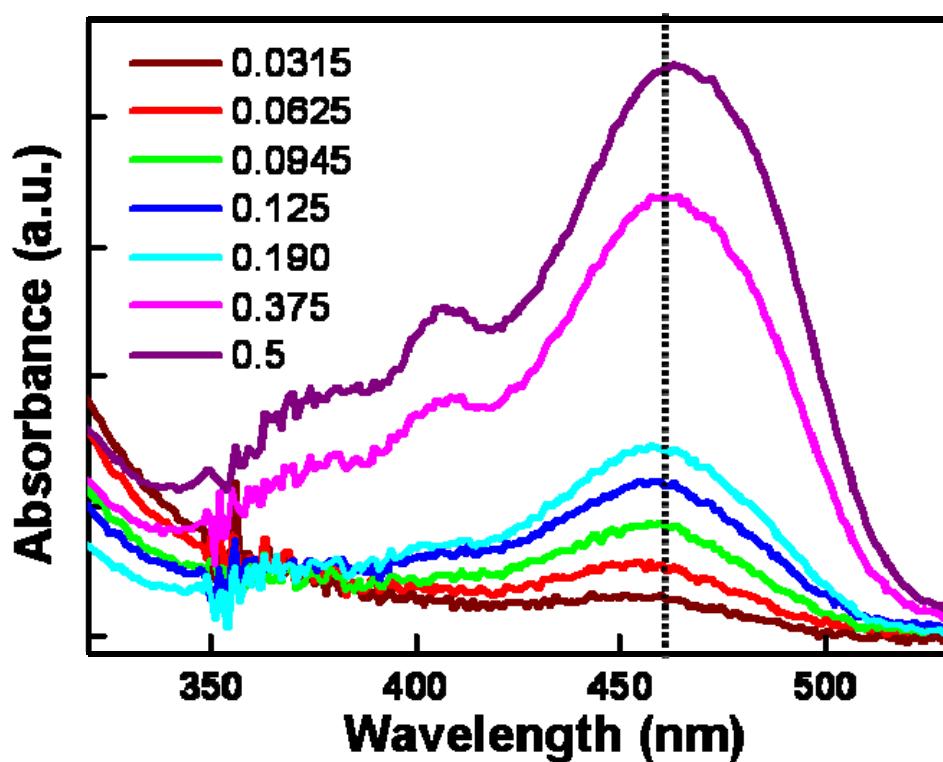
## Supplementary Information

### Incorporating of anionic dyes into silica nanoparticles by using cationic polyelectrolyte as bridge

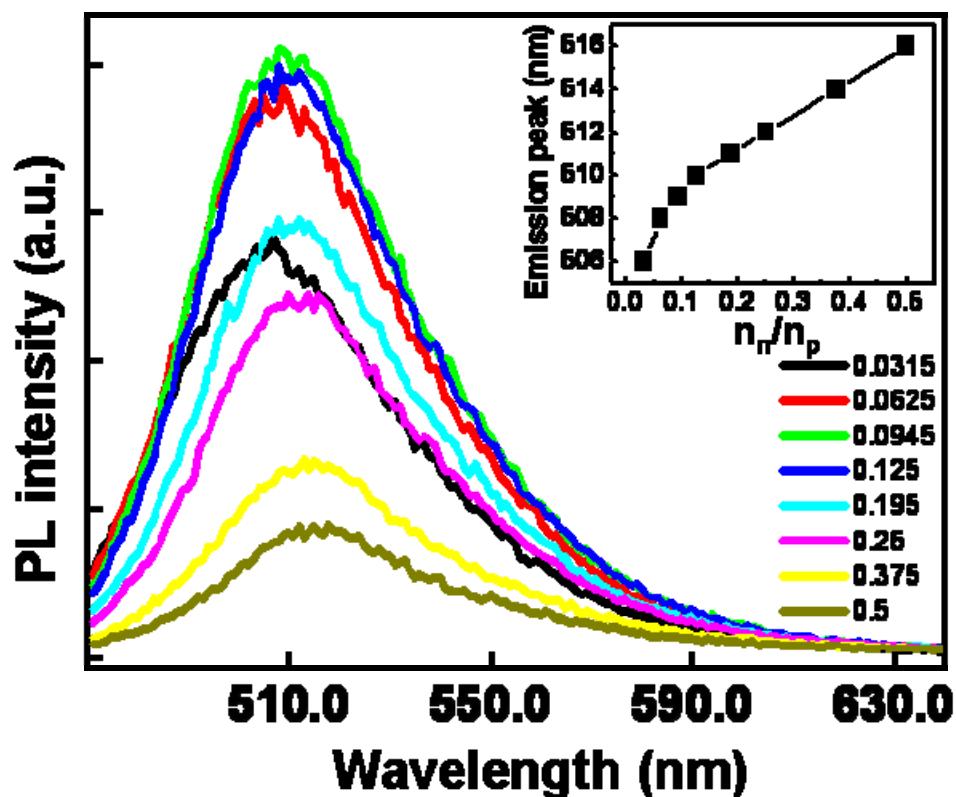
Jinglun Liang, Ziyang Lu, Jianquan Xu, Jun Li, Huimao Zhang, and Wensheng Yang



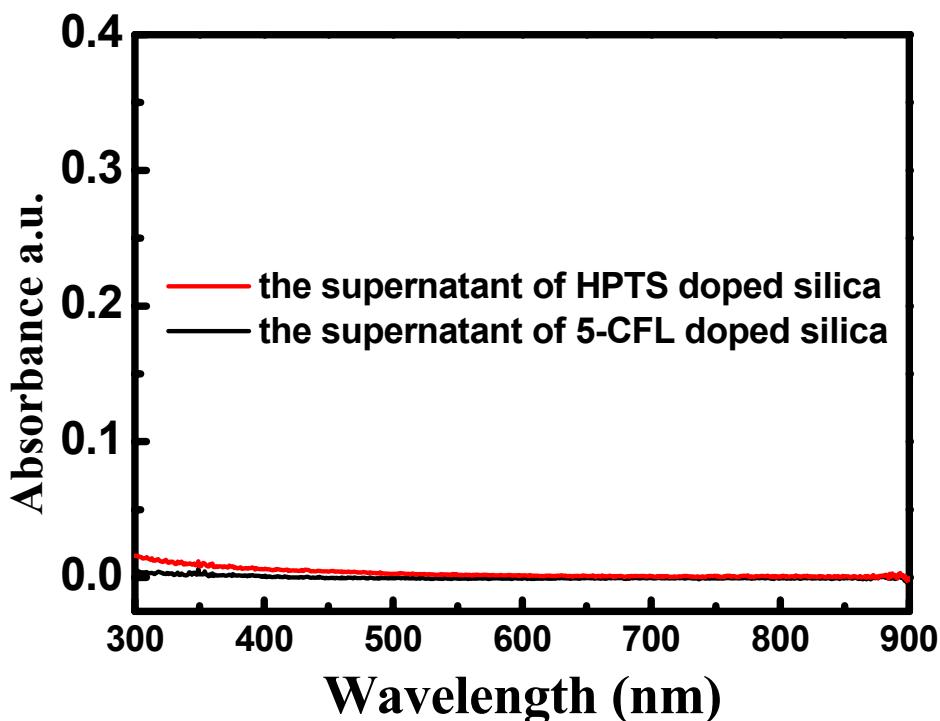
**Figure S1.** TEM images of the resultant particles prepared from the complexes with different  $n_n/n_p$  ratios. In (c), negatively charged EDTA was added to increase the  $n_n/n_p$  ratio from 0.062 to 0.500. As a result, both the zeta-potential of the complex and the diameter of the resultant particles were comparable with those of the complexes with original  $n_n/n_p$  ratio of 0.500.



**Figure S2.** Absorption spectra of the HPTS-doped silica particles with different  $n_h/n_p$  ratios.



**Figure S3.** Fluorescence spectra of the HPTS-doped silica particles with different  $n_n/n_p$  ratios. Insert: variation of the emission maxima of the particles with  $n_n/n_p$  ratios.



**Figure S4.** Absorption spectra of the supernatants of HPTS and 5-CFL doped silica particle dispersions after 2 month standing at room temperature. The silica particles were dispersed in 0.1 M PBS buffer solution (pH=7.4). No absorbance of the dyes was detectable in the supernatants, indicating there was almost no leakage of the dyes from the particles even after the 2 month standing.