

Supplementary information

Evolution of Biofunctional Semiconductor Nanocrystals: A Calorimetric Investigation

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It is observed that the characteristics of UV-Vis and photoluminescence spectra of the end products of calorimetric titration, given in the manuscript are similar to that of our earlier works.^{1,2} A typical absorption and luminescence spectra of Cys-CdS from our earlier work¹ is shown in figure S1.

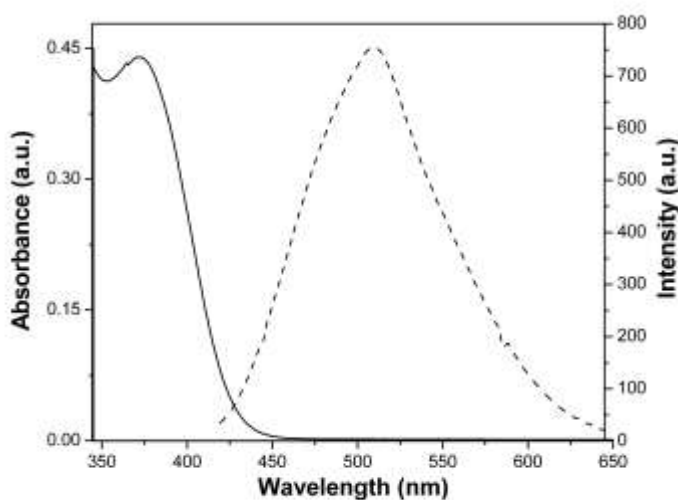


Figure S1. Typical absorbance and PL spectra of Cys-CdS

Figure S2 (a). shows the absorbance and luminescence spectra of end product of calorimetric titration for BSA-CdS at pH6 and Figure S2 (b) shows the UV-Vis and PL spectra of BSACdS from our previous work².

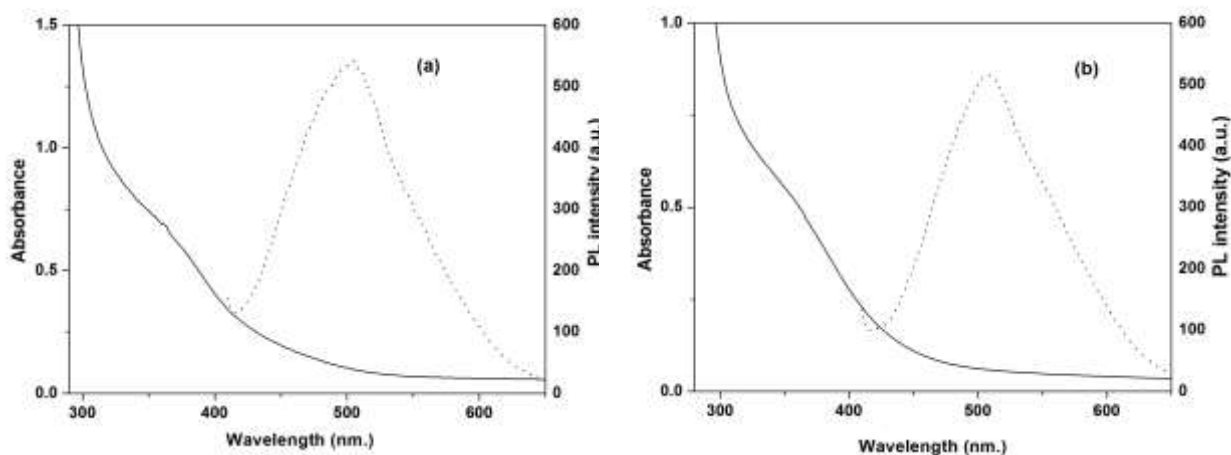


Fig. S2. UV and PL spectra of BSA capped CdS NPs: (a) end product of calorimetric titration and (b) synthesized following usual procedure from our earlier work².

Reference

- 1) A. Priyam, S. Ghosh, S.C. Bhattacharya and A. Saha, *J. Colloid Interf. Sci.* 2009, **333**, 195.
- 2) D. Ghosh, S. Ghosh, S. Mondal and A. Saha, *J. Mater. Chem.* 2012, **22**, 699.