

Supplementary Information for:

Constructing Nanosized CdTe Nanocrystal Clusters with Thermo-responsive Photoluminescence Characteristics

Hucheng Zhang^{*a}, Huili Wang^a, Kelu Du, Xinxin Ma, Jianji Wang^{*a}

^a*Collaborative Innovation Centre of Henan Province for Green Manufacturing of Fine Chemicals*

*Key Laboratory of Green Chemical Media and Reactions,
Ministry of Education School of Chemistry and Chemical Engineering, Henan Normal University,
Xinxiang, Henan 453007, P. R. China
E-mail: hzhang@henannu.edu.cn; jwang@henannu.edu.cn.*

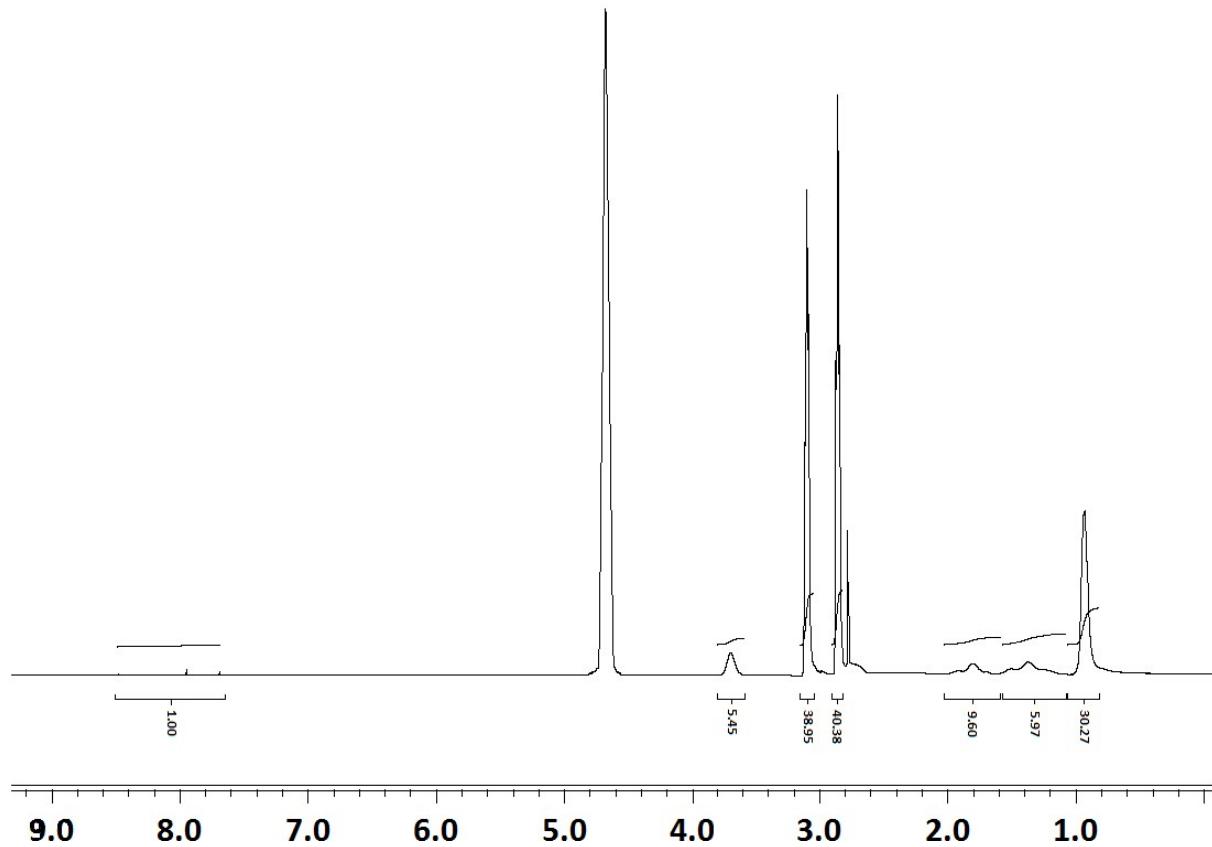


Fig. S1 integrals for ${}^1\text{H}$ NMR spectrum of PNAEAM₁₂-b-PNIPAM₂₉₀ in D_2O at room temperature.

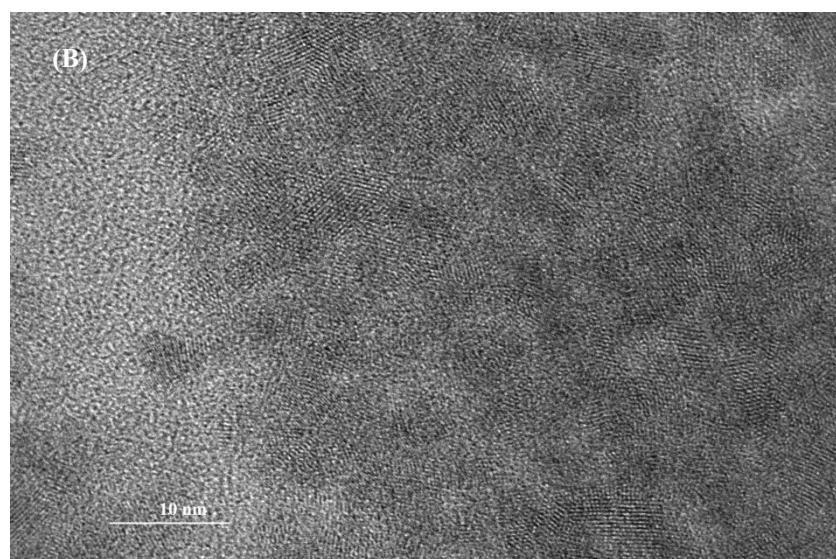
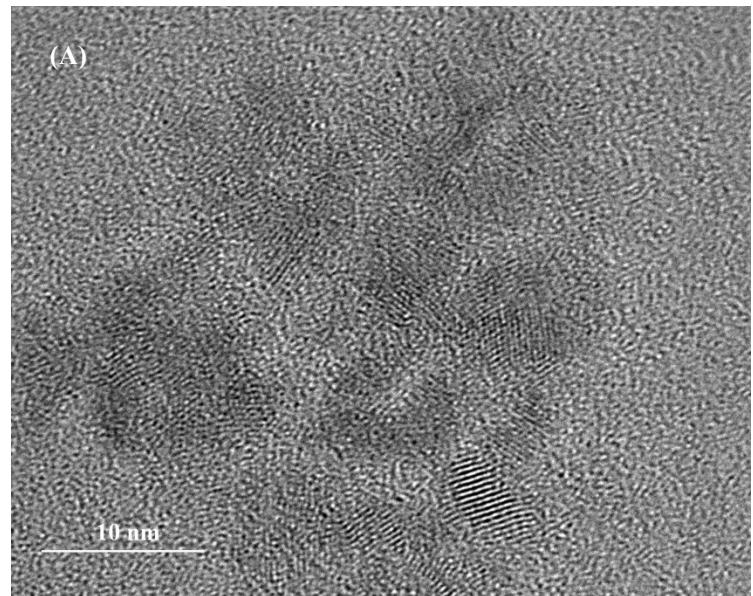


Fig. S2 HRTEM images taken respectively from a selected individual CNC of PNAEAM₁₂-b-PNIPAM₂₉₀-CdTe CN₆ (A), and form one quarter of a PNAEAM₁₂-b-PNIPAM₂₉₀-CdTe CN₂₄ CNC (B).

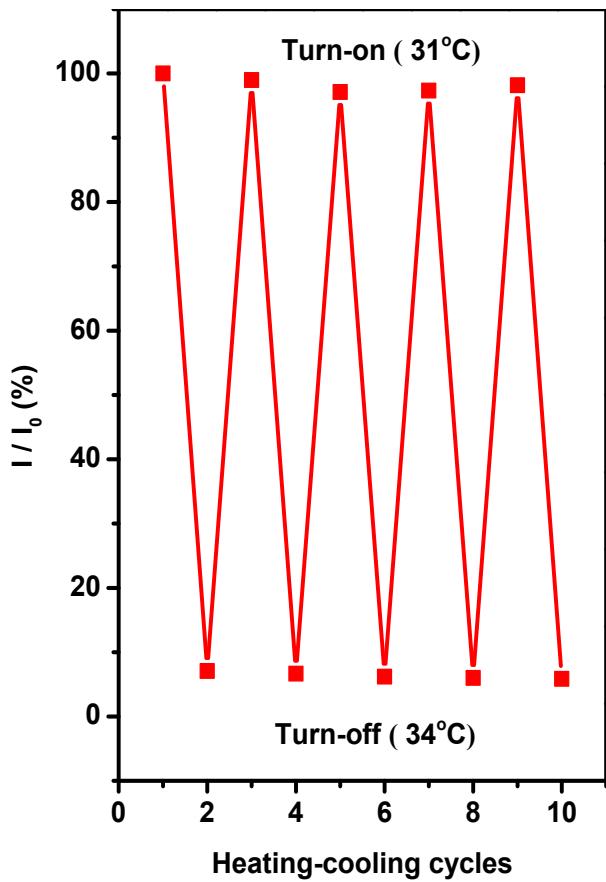


Fig. S3 Repeatedly turning off/on the PL PNAEAM₁₂-b-PNIPAM₂₉₀-CdTe CN₂₄ CNCs in aqueous solution by heating/cooling cycles between 31 and 34 °C.

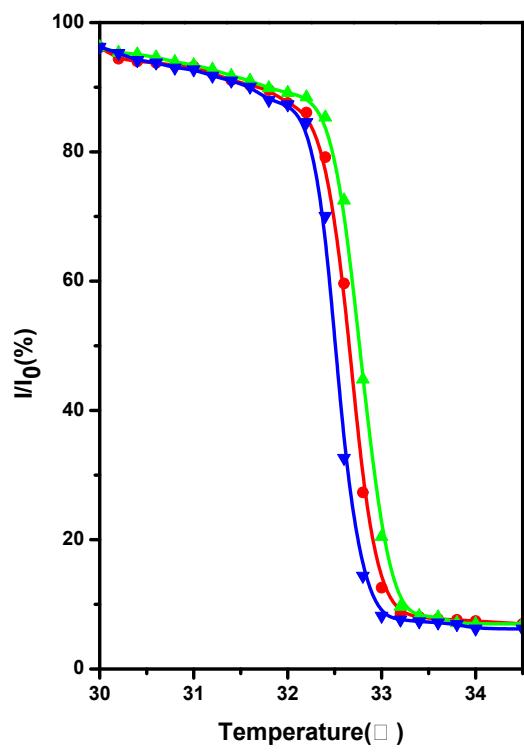


Fig. S4 I/I_0 as a function of temperature for CNCs of $\text{PNAEAM}_{12}\text{-b-PNIPAM}_{290}\text{-CdTe NC}_{24}$ (\blacktriangledown), $\text{PNAEAM}_{12}\text{-b-PNIPAM}_{440}\text{-CdTe NC}_{24}$ (\bullet), $\text{PNAEAM}_{12}\text{-b-PNIPAM}_{580}\text{-CdTe NC}_{24}$ (\blacktriangle).

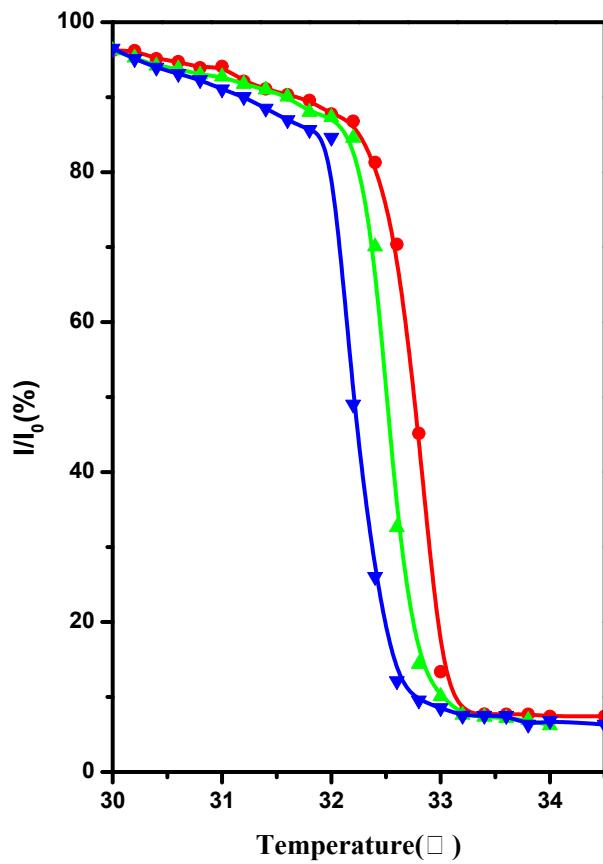


Fig. S5 I/I_0 as a function of temperature for CNCs of PNAEAM₁₂-b-PNIPAM₂₉₀-CdTe NC₂₄ at different concentration of 0.5 mg/mL (●), 1 mg/mL (▲), 5 mg/mL (▼).