

Supporting Information

for

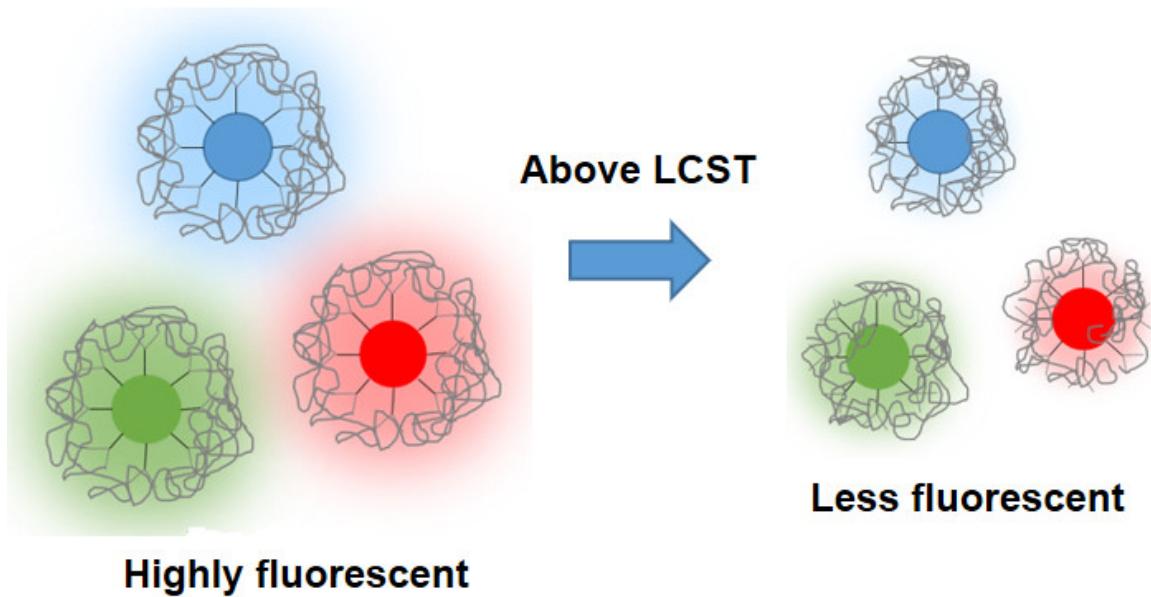
Fluorescence modulation of conjugated polymer nanoparticles embedded in poly(N-isopropylacrylamide) hydrogel

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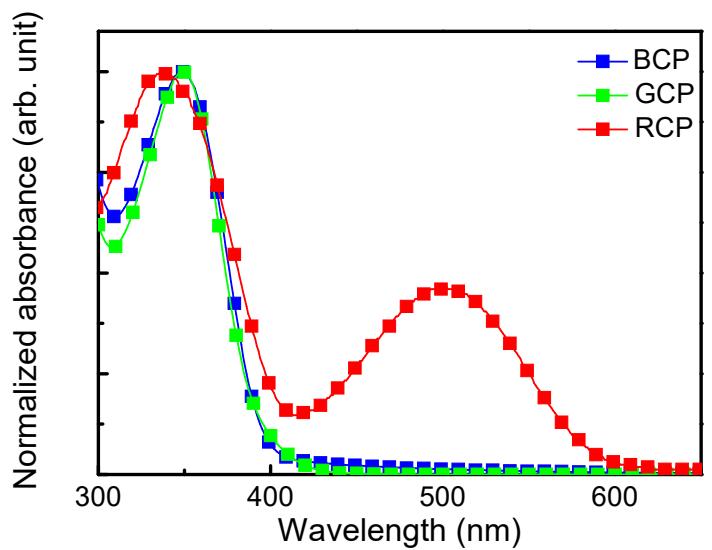
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⁺These authors contribute equally.

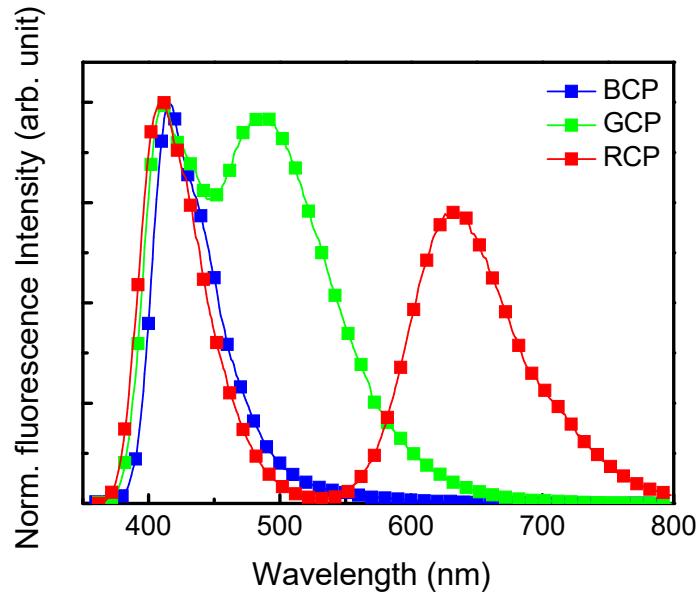
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Scheme S1. Changes in the size and fluorescence intensity of Pdots@PNIAPM upon shrinkage of PNIPAM above the LCST.



(a)



(b)

Figure. S1. (a) UV-vis and (b) fluorescence spectra of CPs in THF. Excitation wavelength 350 nm.

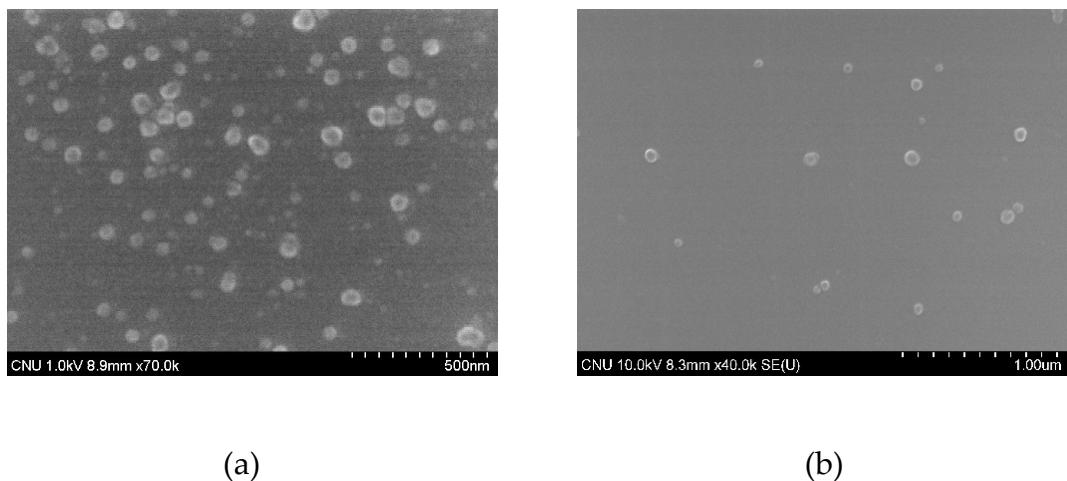


Figure. S2. SEM images of (a) BPdots and (b) BPdots@AA.

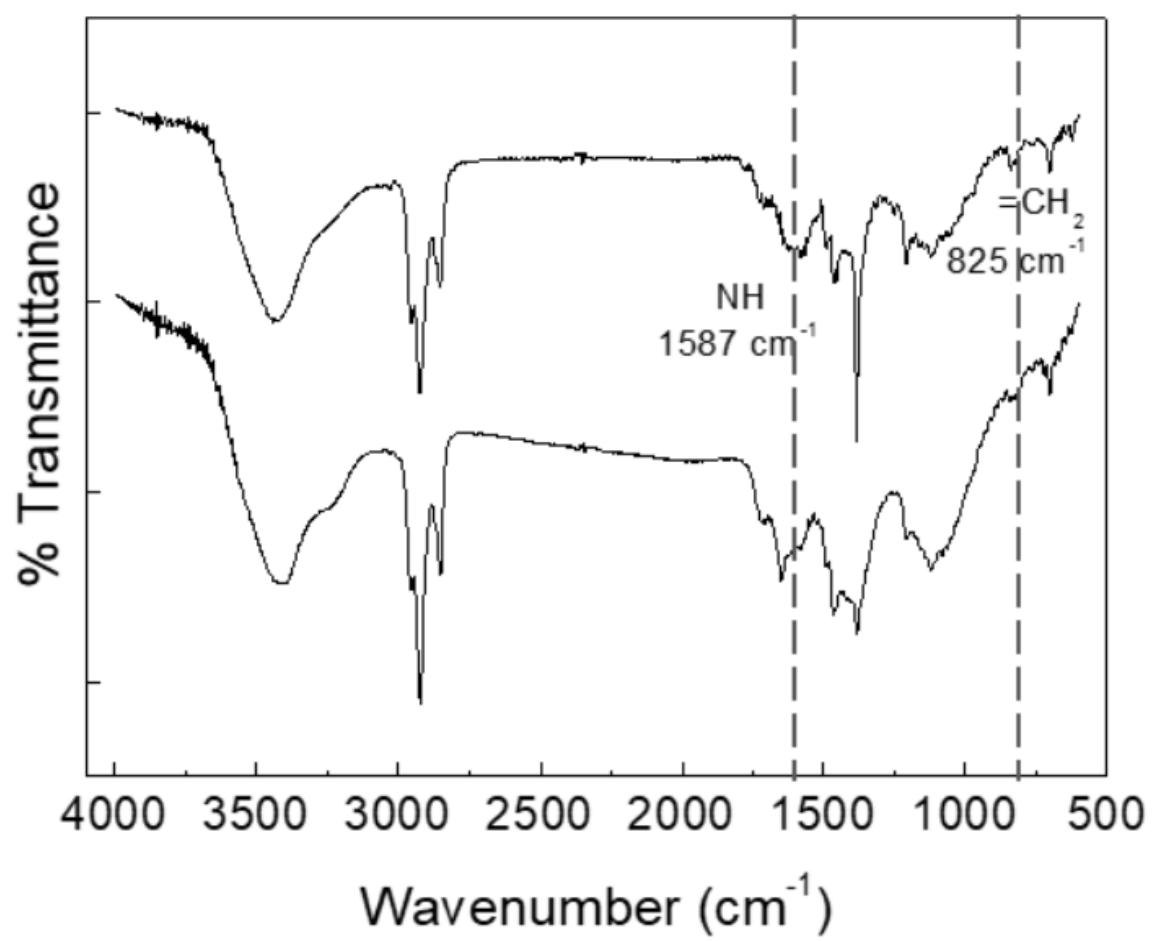
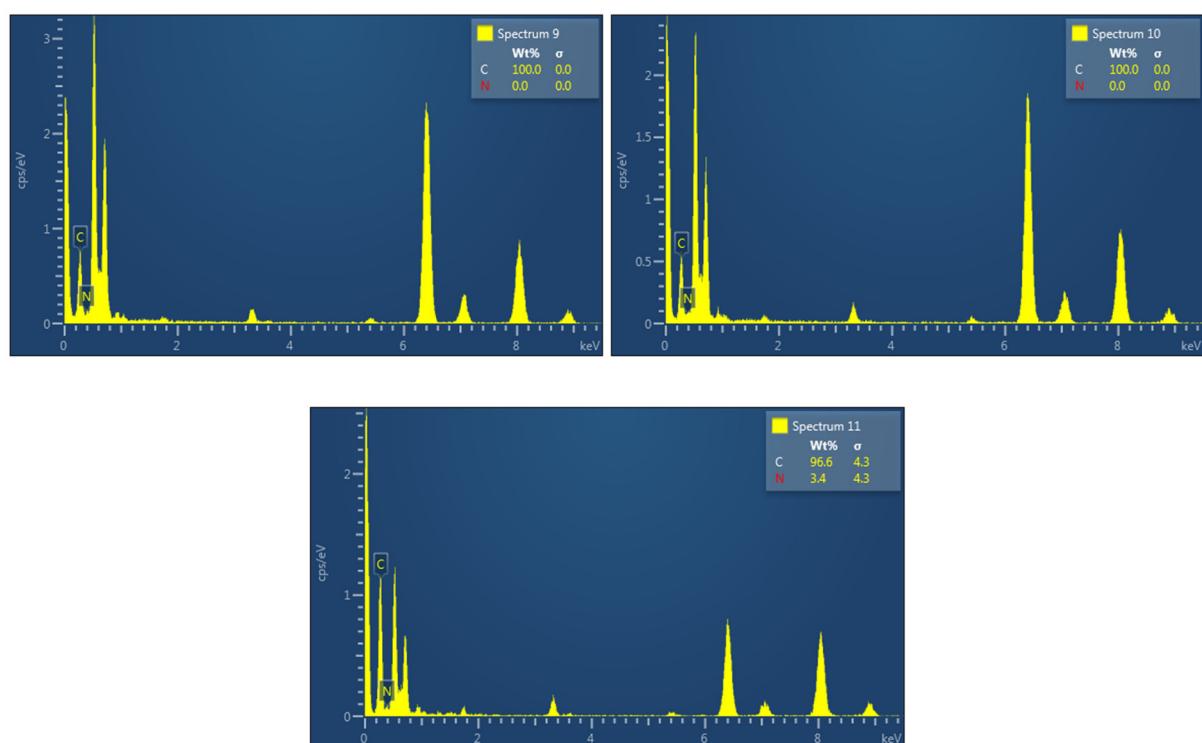
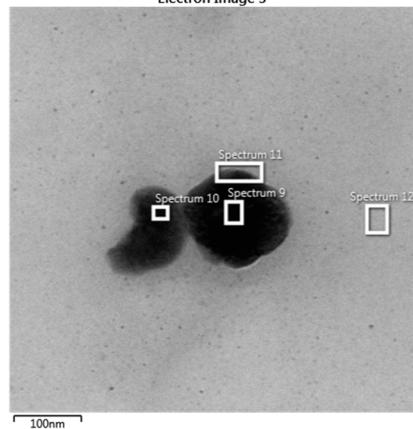
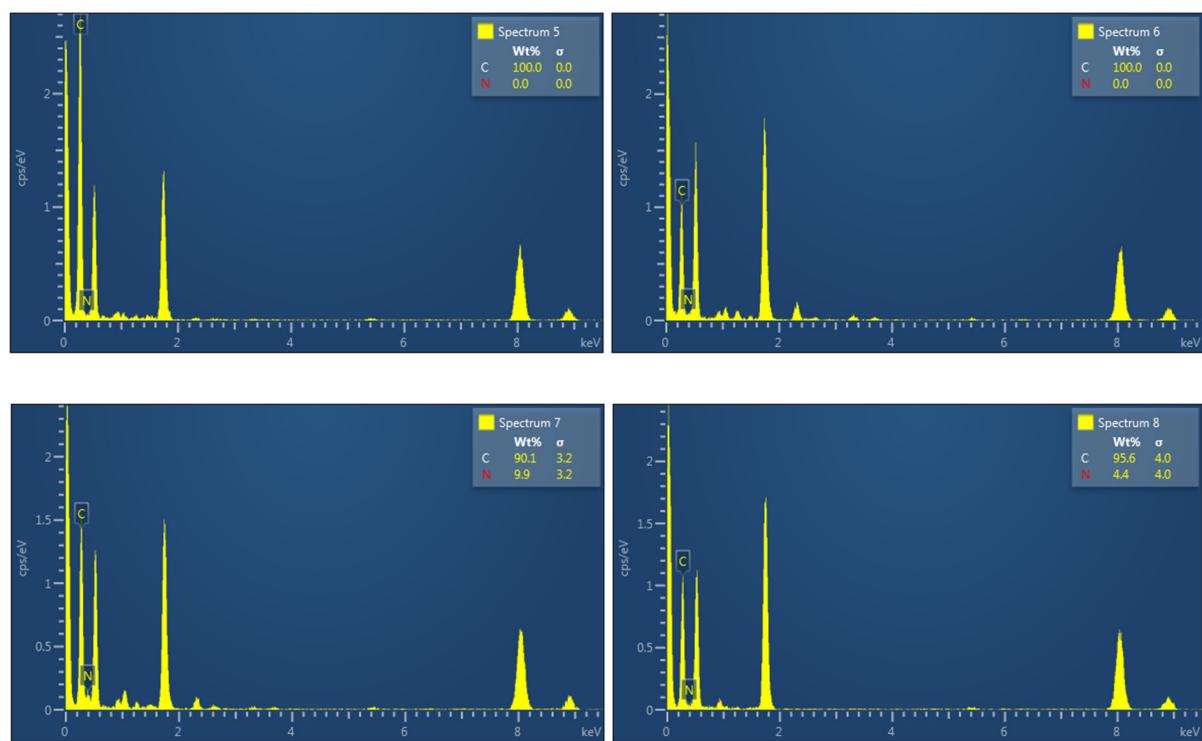
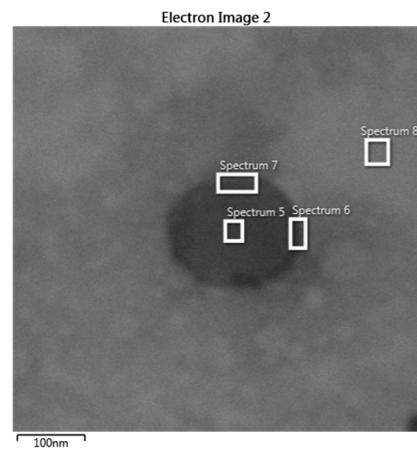


Figure. S3. FT-IR spectra of BPdots (lower) and BPdots@AA (upper).

Electron Image 3

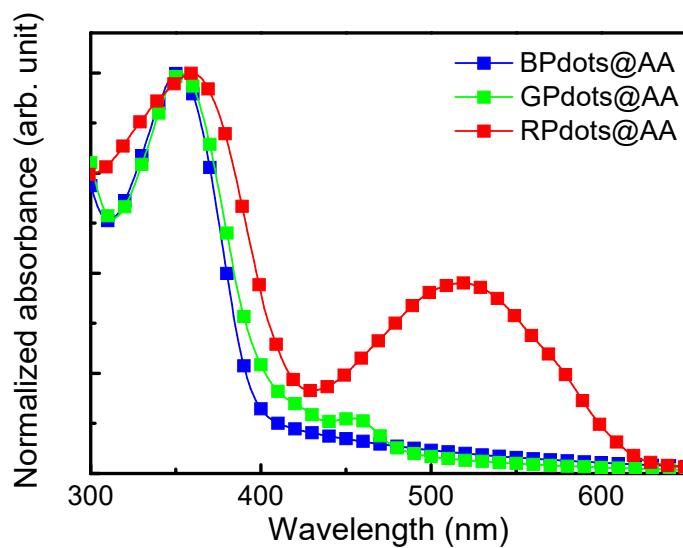


(a)

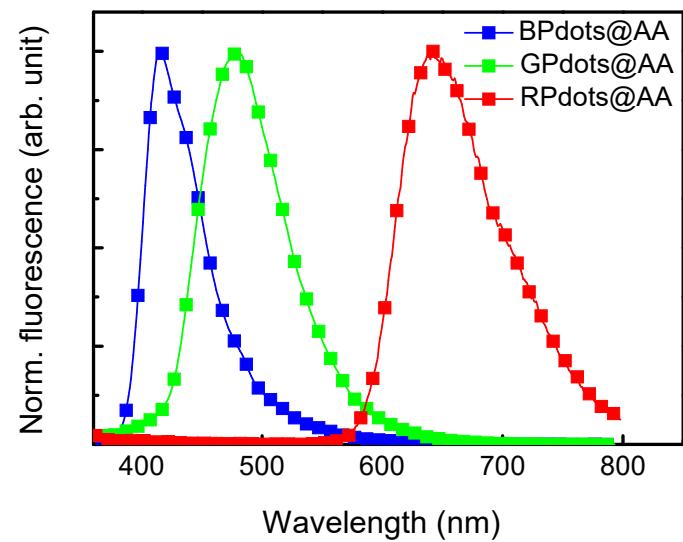


(b)

Figure. S4. EDS mapping images of (a) BPdots and (b) BPdots@AA.

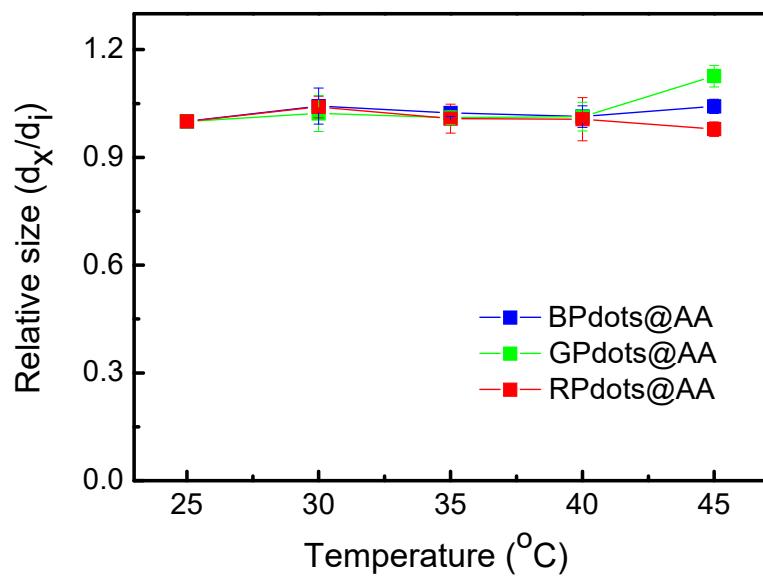


(a)

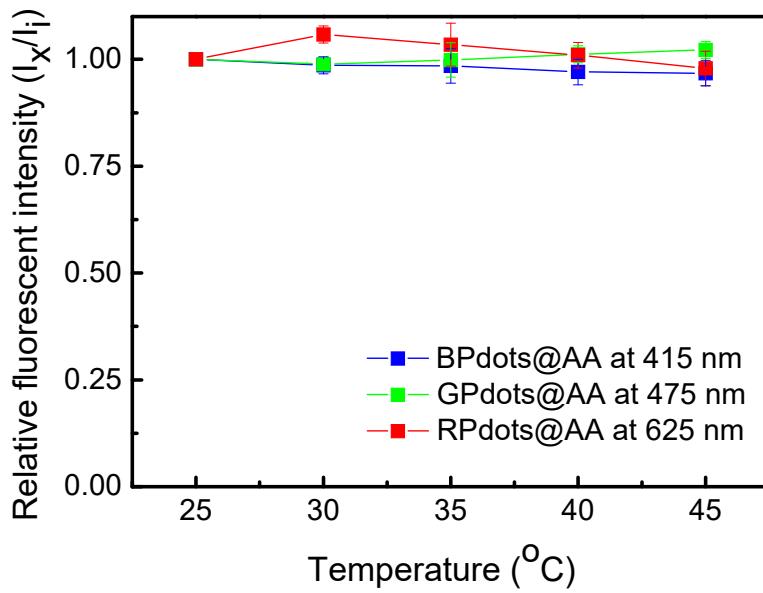


(b)

Figure. S5. (a) UV-Vis and (b) fluorescence spectra of Pdots@AA in water. Excitation wavelength 350 nm.

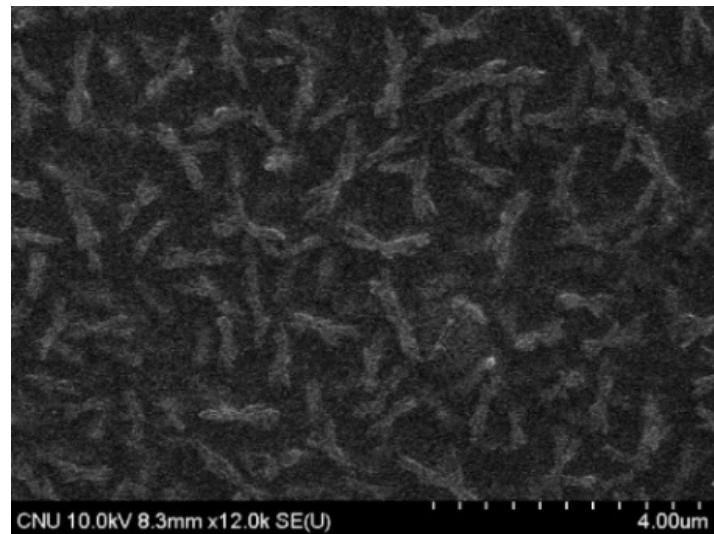


(a)

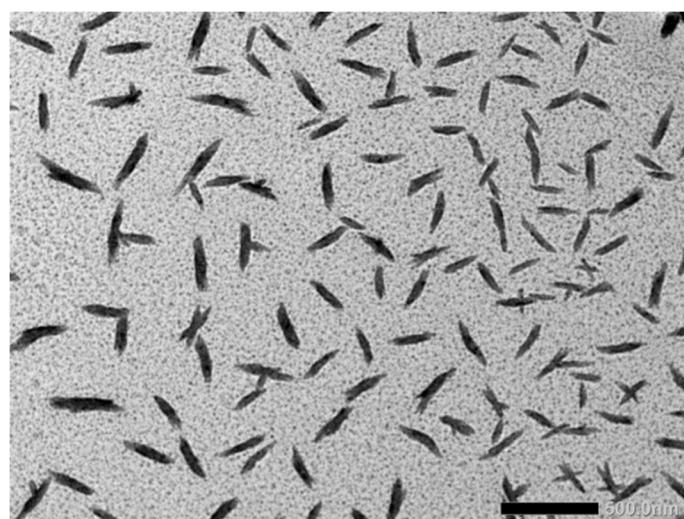


(b)

Figure. S6. (a) Effect of temperature on the hydrodynamic diameters of all Pdot@AA in aqueous solution determined by DLS. d_i and d_x correspond to hydrodynamic diameters at 25 °C and at elevated temperature, respectively. (b) Effect of temperature on the relative fluorescent intensity (I_x/I_i) of Pdots@AA in aqueous solution. Excitation wavelength 350 nm. I_i and I_x correspond to fluorescent intensity at 25 °C and at elevated temperature, respectively.



(a)



(b)

Figure. S7. (a) SEM and (b) TEM images of BPdots@PNIPAM.