

Supporting information

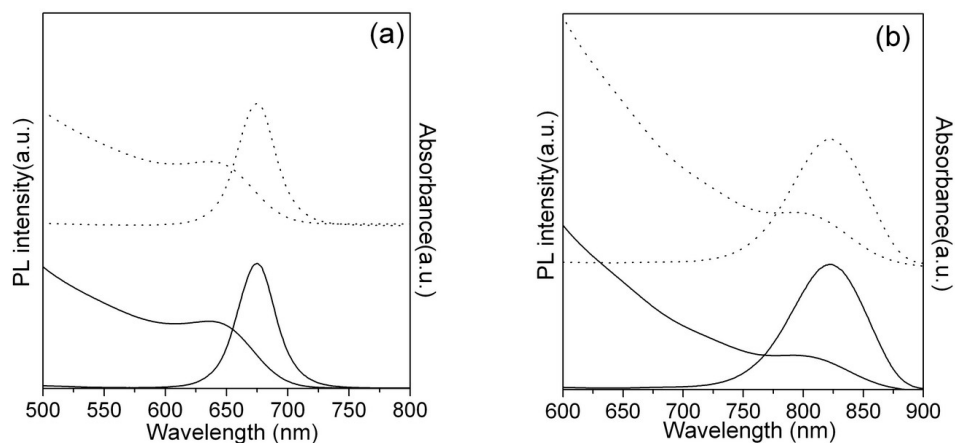


Fig. S1: The change of the absorption and PL spectra of the CdSe_{1-x}Te_x QDs before (solid) and after (dash) the size selection (a) CdSe_{0.23}Te_{0.77} QDs emitting at 675nm (b) CdSe_{0.73}Te_{0.27} QDs emitting at 825nm

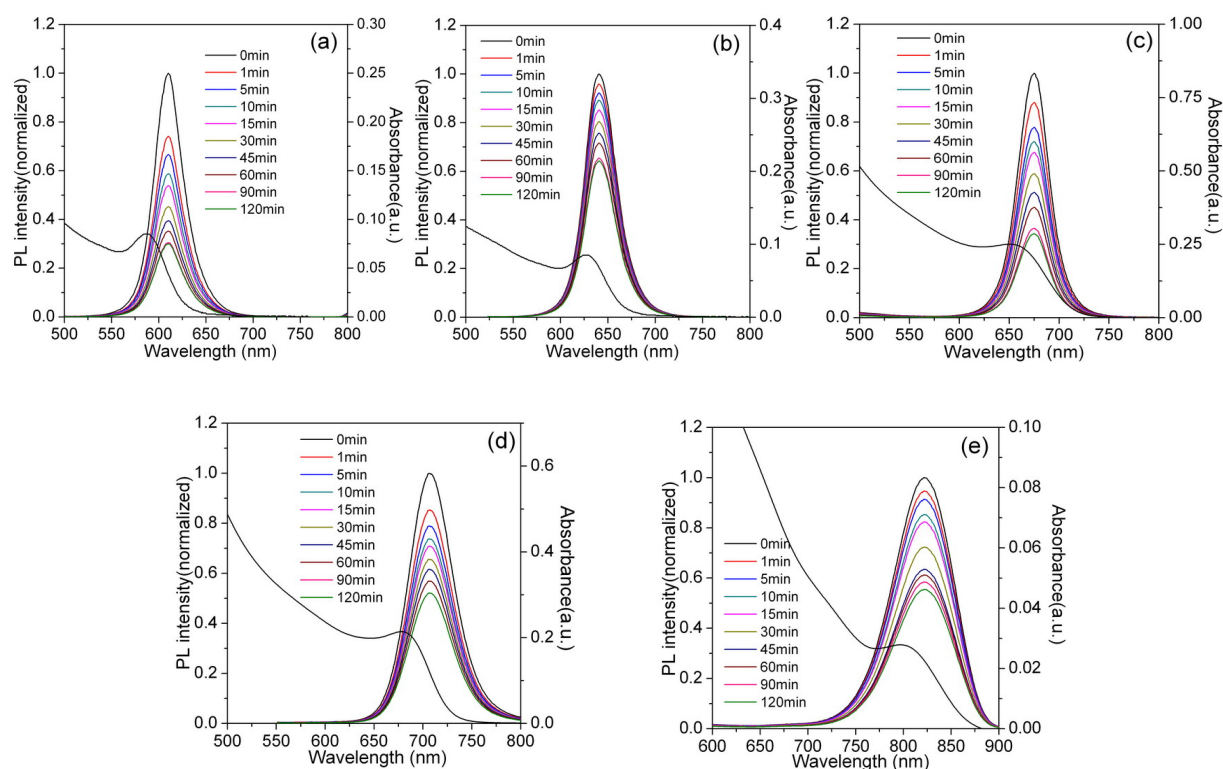


Fig. S2: The change of the absorption and PL spectra of the CdSe_{1-x}Te_x QDs under the illumination with UV light (365 nm) (because of overlapping of the absorption spectra in the whole illumination process, only the original one is shown in Fig.S2.)

(a) CdSe_{0.23}Te_{0.77}, 3.5 nm (b) CdSe_{0.23}Te_{0.77}, 4.5 nm (c) CdSe_{0.23}Te_{0.77}, 6.0 nm
(d) CdSe_{0.50}Te_{0.50}, 6.0 nm (e) CdSe_{0.73}Te_{0.27}, 6.0 nm