

Synthesis and Observation of Discontinuous Red-shift Photoluminescence of CdTe/CdS Core/Shell Nanocrystals

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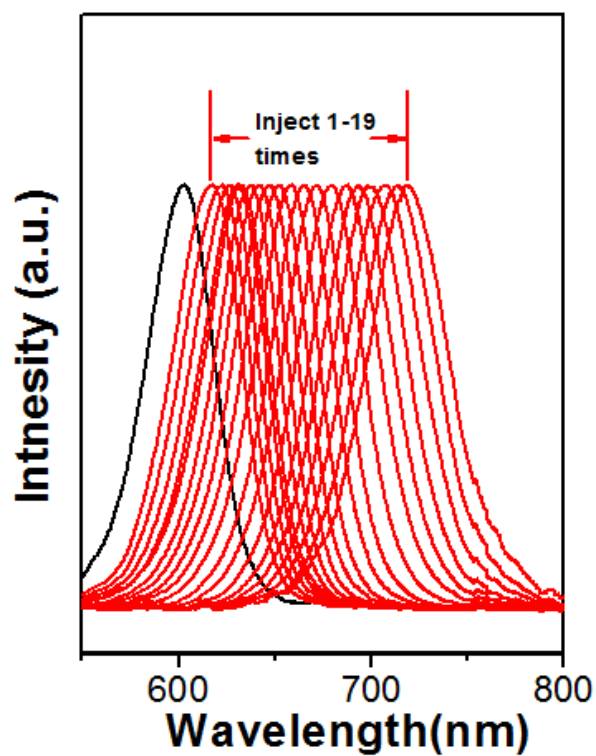


Figure S1. PL spectra upon consecutive growth of CdTe/CdSe NCs.

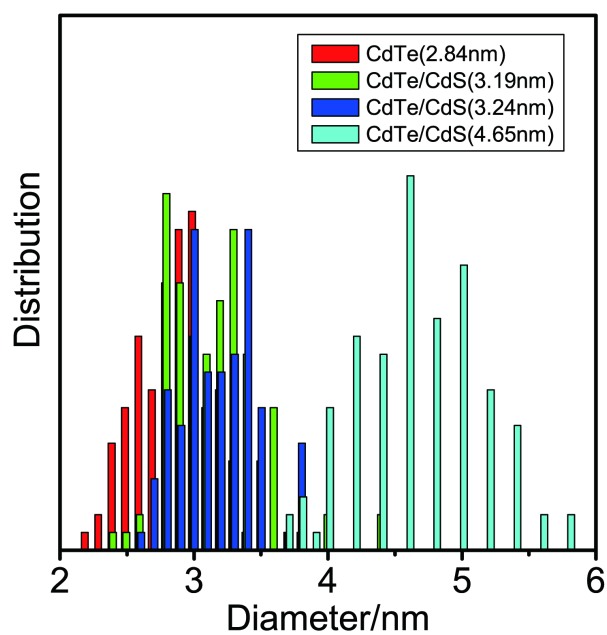


Figure S2. Size histograms of CdTe and CdTe/CdS NCs corresponding to Figure 2.

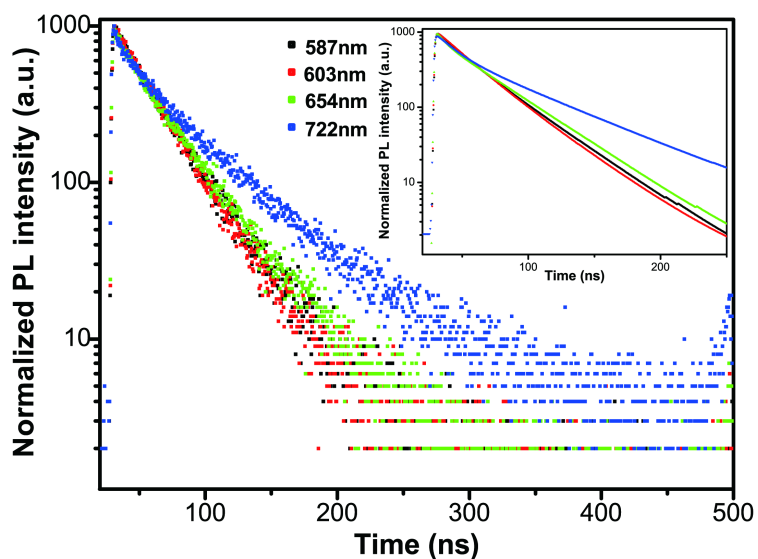


Figure S3. PL decays of CdTe and CdTe/CdS NCs detected at 587 nm, 603 nm, 654 nm, and 722 nm, respectively.

Table S1. Time constants T_1 and T_2 , components A_1 (corresponding to T_1) and A_2 (corresponding to T_2), and average lifetimes T of the PL emission at different wavelengths for CdTe/CdS NCs.

Sample	PL/nm	Precursor (mL)	T_1/ns	A_1(%)	T_2/ns	A_2(%)	T/ns
CdTe	587	0	16.65	19.56	36.38	80.44	32.52
CdTe/CdS	603	0.6	23.34	47.81	38.36	52.19	21.19
CdTe/CdS	654	0.8	5.96	5.92	37.33	94.08	35.47
CdTe/CdS	722	1.4	14.13	15.68	59.25	84.32	55.17

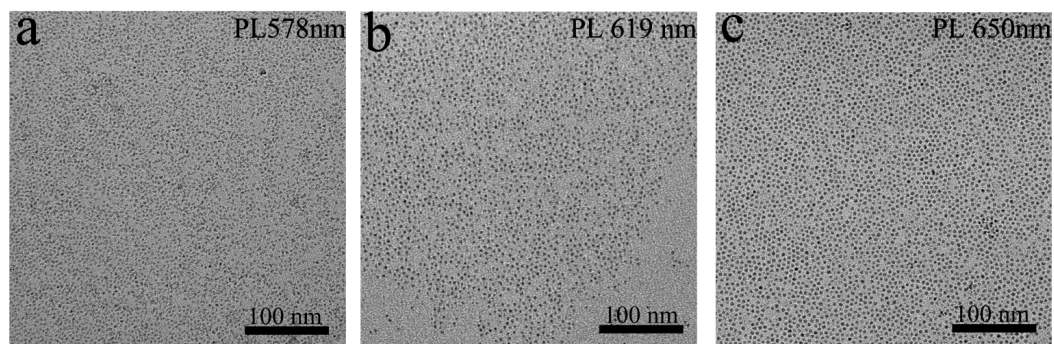


Figure S4. TEM images of CdTe core with (a) 2.54 nm, (b) 3.27 nm, and (c) 3.69 nm.