



## Supporting Information

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Competition between Auger Recombination and Hot-Carrier Trapping in PL Intensity Fluctuations of Type II Nanocrystals

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Supplementary Materials for

**Competition between Auger Recombination and Hot Carrier Trapping in PL Intensity Fluctuations of Type II Nanocrystals**

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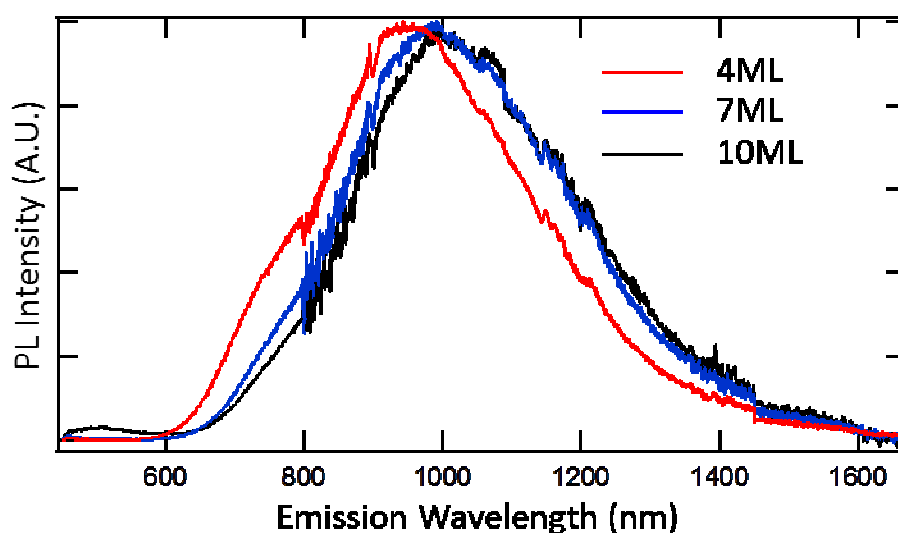


Figure S1. Ensemble emission spectra of InP/CdS g-NQD over-coated with 4ML (red), 7 ML (blue) and 10 ML (black) CdS shells. Multiple spectra acquired using CCD camera and linear InGaAs diode array are joined together to show entire emission spectra.

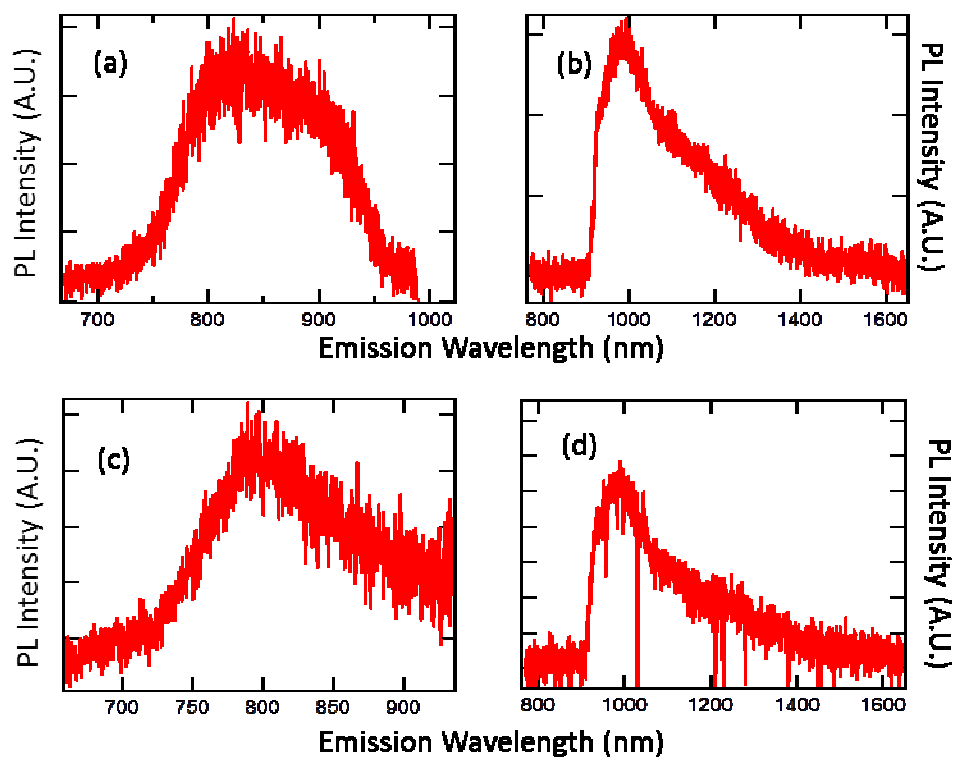
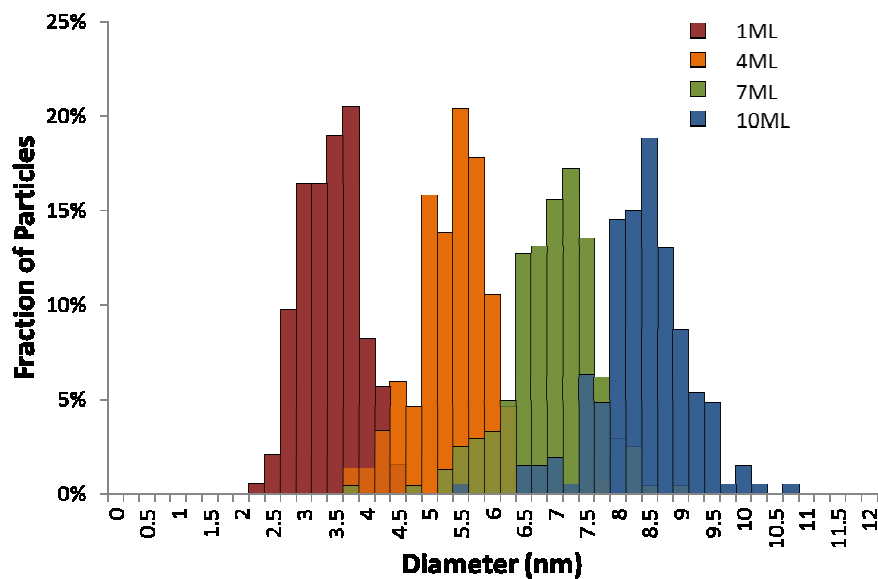


Figure S2. PL spectra of two different 10 ML g-NQDs (**a**, **b**), and two 7ML g-NQDs (**c**, **d**) acquired using two different single dot spectroscopy systems equipped with CCD (**a**, **c**) and InGaAs diode arrays (**b**, **d**).



Sample	Diameter			Number of Dots Sampled
	(nm)	+/-	+/- %	
1ML shell	3.28	0.62	18.9%	195
4ML shell	5.24	0.56	10.7%	152
7ML shell	6.84	0.68	9.9%	244
10 ML shell	8.3	0.72	8.7%	207

Figure S3. Histograms and table showing size distribution of 1ML, 4ML, 7ML and 10 ML g-NQD samples obtained through analysis of TEM images.