Supporting information.

**Thiol Treatment to Enhance Photoluminescence and Electroluminescence of CdSe/CdS Core-Shell Quantum Dots Prepared by Thermal Cycling of Single Source Precursors**

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Figure S1. XRD patterns of CdSe core and CdSe/CdS core-shell NCs.
Figure S2. EDS spectrum of thiol-modified CdSe/CdS core-shell QDs (3 MLs).

Figure S3. PL spectra of CdSe/CdS core-shell QDs following addition of thiol ligands with different chain lengths. (Note that the inset shows QDs with the addition of various ligands under UV irradiation.)
Figure S4. Photograph of purified QDs with various ligands dispersed in hexane solution under indoor light conditions.