Supporting Information

Thin-Shell CdSe/ZnCdS Core/Shell Quantum Dots and Their Electroluminescence Device Application

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Figure S1. EDS spectra and chemical compositions of CdSe cores (a), CdSe/2ZnS (b), CdSe/2Zn$_{0.5}$Cd$_{0.5}$S (c), and CdSe/2CdS core/shell QDs (d).
**Figure S2.** Digital photographs of thiol-capped CdSe cores, CdSe/2ZnS, CdSe/2Zn$_{0.5}$Cd$_{0.5}$S, and CdSe/2CdS core/shell QD solutions under normal indoor light (a) and UV light (b) illumination. (c) PL decay curves of CdSe cores, CdSe/2ZnS, CdSe/2Zn$_{0.5}$Cd$_{0.5}$S, and CdSe/2CdS core/shell QDs.
Figure S3. External quantum efficiency (EQE) vs driving voltage curve of the CdSe/2Zn$_{0.5}$Cd$_{0.5}$S QDs-based QD-LED.
Figure S4. The lifetime data of CdSe/2Zn$_{0.5}$Cd$_{0.5}$S QDs-based QD-LED without encapsulation under 65% relative humidity.
Figure S5. Luminance–voltage curves of the CdSe/2Zn$_{0.5}$Cd$_{0.5}$S QDs-based QD-LEDs with different ZnO thicknesses.
Figure S6. PLQYs of CdSe/2ZnS, CdSe/2Zn$_{2/3}$Cd$_{1/3}$S, CdSe/2Zn$_{1/2}$Cd$_{1/2}$S, CdSe/2Zn$_{1/3}$Cd$_{2/3}$S, CdSe/1CdS/1ZnS core/shell QDs.