

# Novel Dithiols as Capping Ligands for CdSe Quantum Dots: Optical Properties and Solar Cell Applications

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## Supporting Information

**Scheme S1.** Synthesis of dithiols.

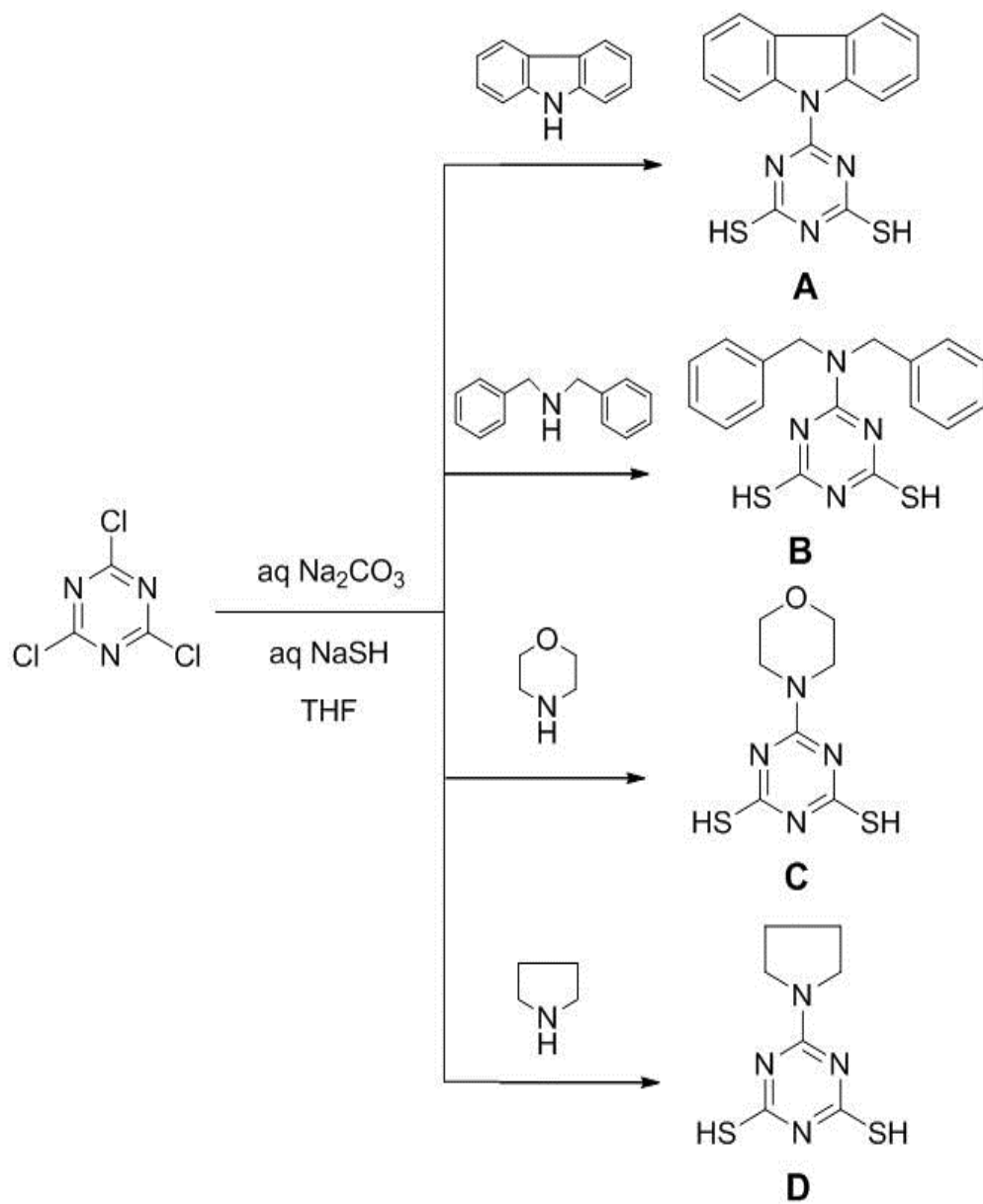
**Figure S2.** FT-IR spectra of DT-capped CdSe QDs.

**Figure S3.** TGA curves of CdSe and DT-capped CdSe QDs.

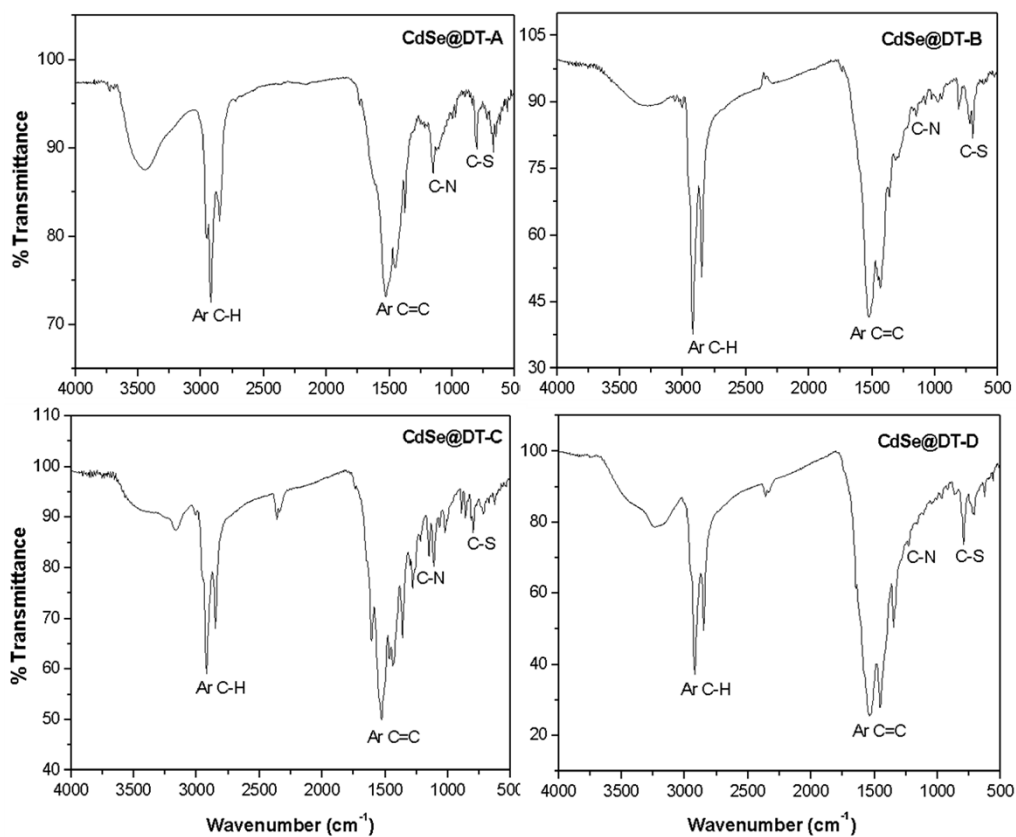
**Figure S4.** The temporal evolution time of the absorption spectra of DT-capped CdSe QDs.

**Figure S5.** Comparison of PL intensities of CdSe and DT-capped CdSe QDs.

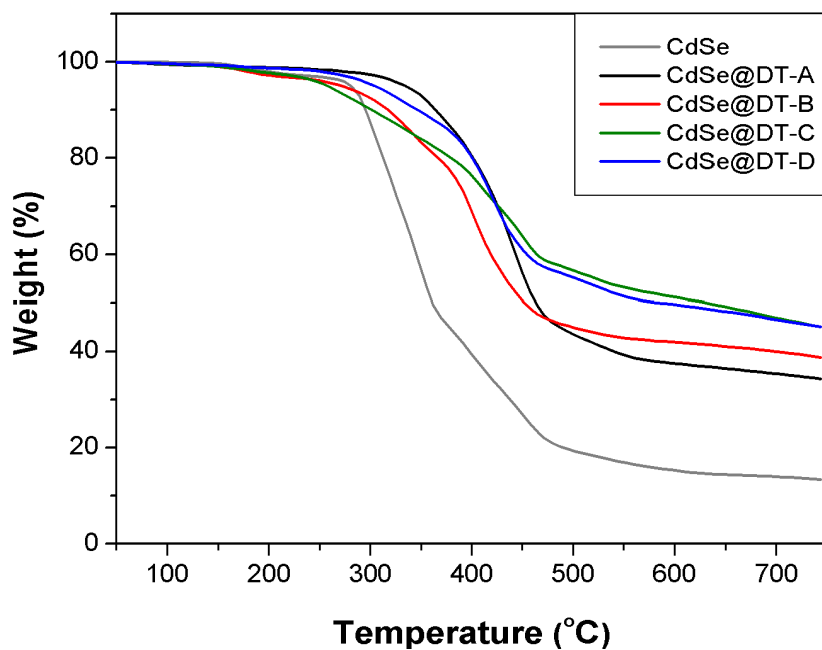
**Figure S6.** Photocurrent density-voltage curves of QD solar cells containing DT-capped CdSe.



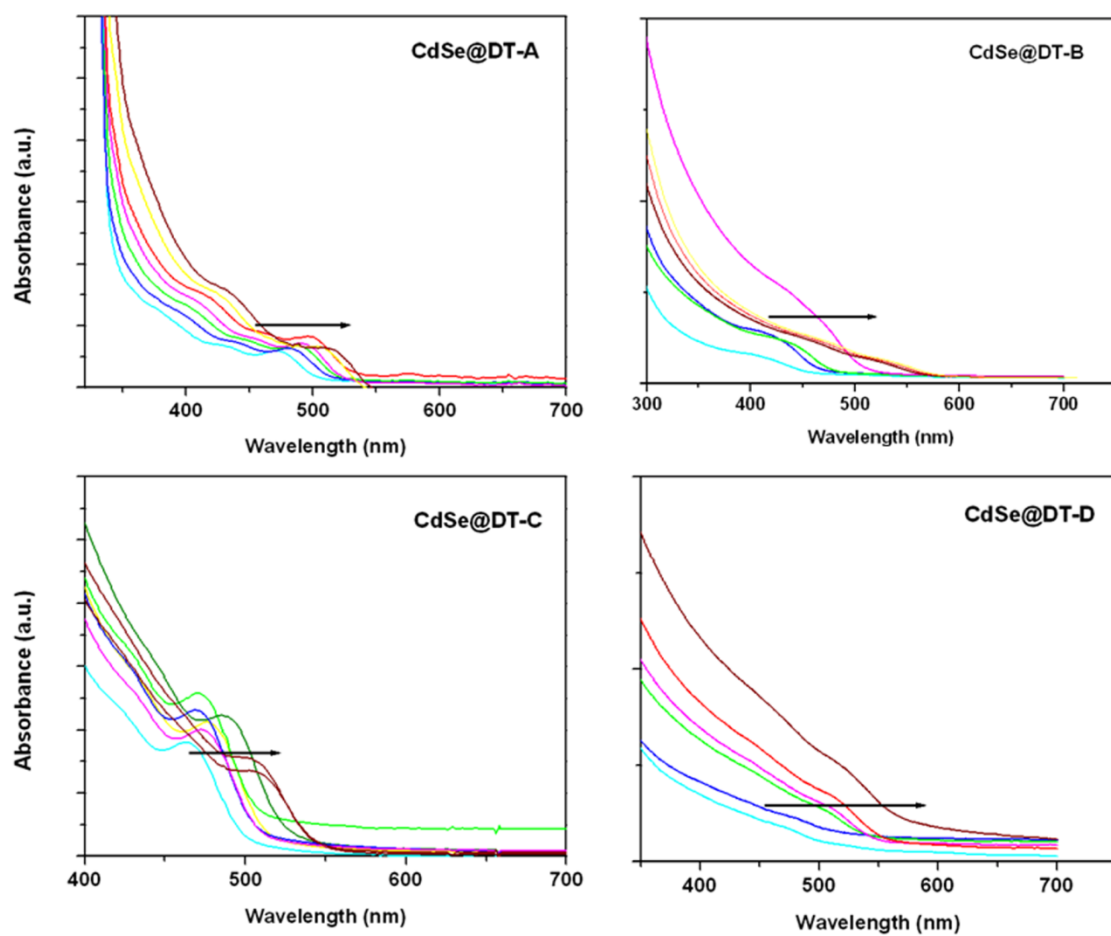
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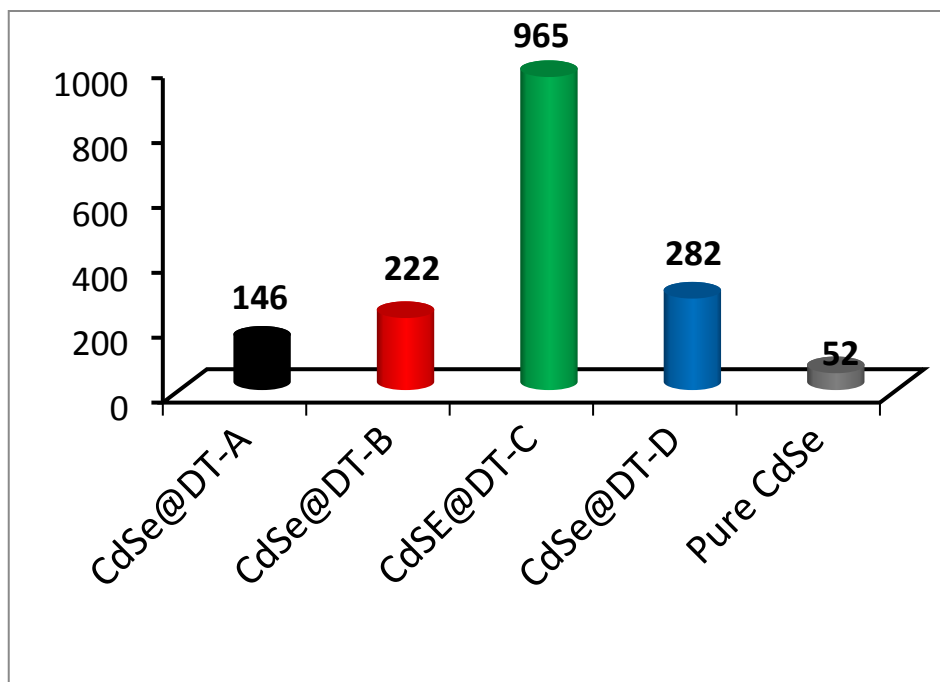
**Figure S2.** FT-IR spectra of DT-capped CdSe QDs.



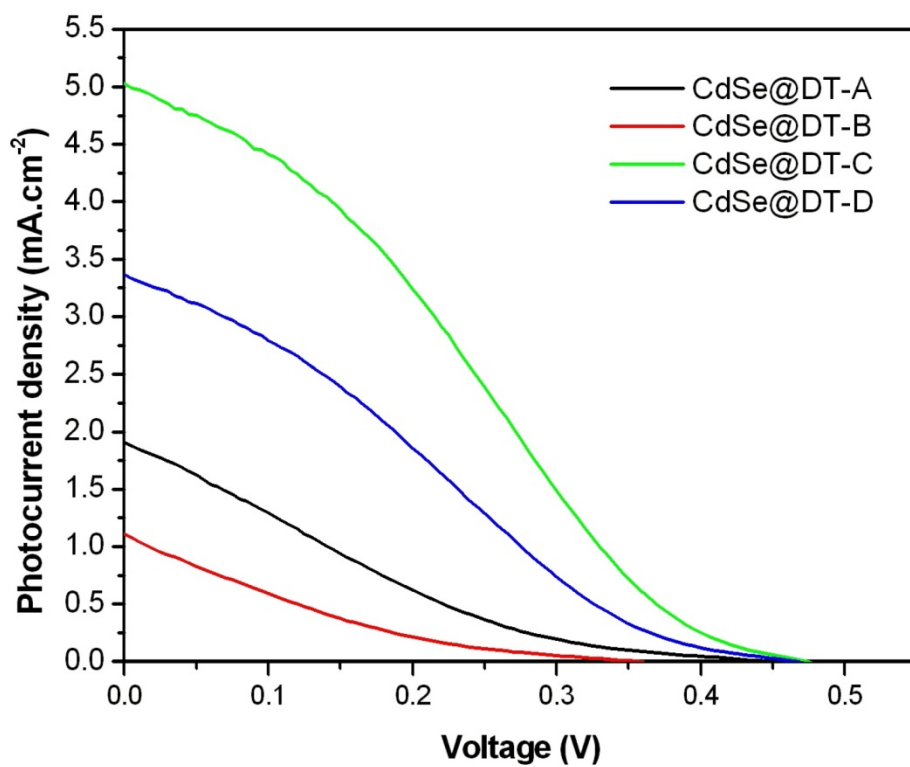
**Figure S3.** TGA curves of CdSe and DT-capped CdSe QDs.



**Figure S4.** The temporal evolution time of the absorption spectra of DT-capped CdSe QDs.



**Figure S5.** Comparison of PL intensities of CdSe and DT-capped CdSe QDs.



**Figure S6.** Photocurrent density-voltage curves of QD solar cells containing DT-capped CdSe.