

# CuS/CdS Quantum Dot Composite Sensitizer and Its Applications to Various TiO<sub>2</sub> Mesoporous Film- Based Solar Cell Devices

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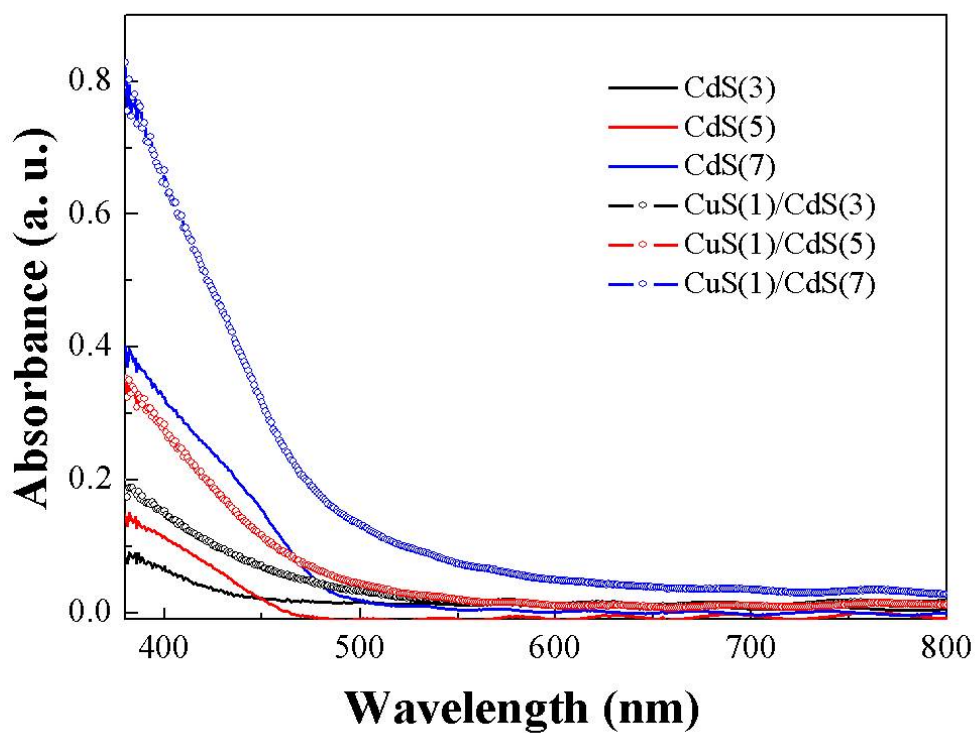
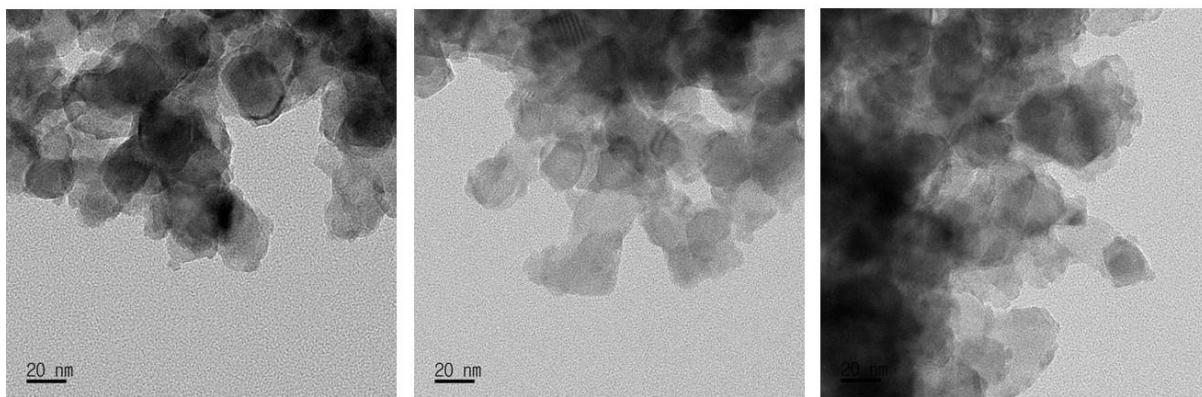


Fig. S1 Absorption spectra from CdS and CuS/CdS QDs after each SILAR cycle up to 3rd, 5th, and 7th CdS deposition over transparent  $\text{TiO}_2$  film (the number after designated semiconductors indicates the repeated times of each SILAR process).

### CdS7



### CuS1/CdS7

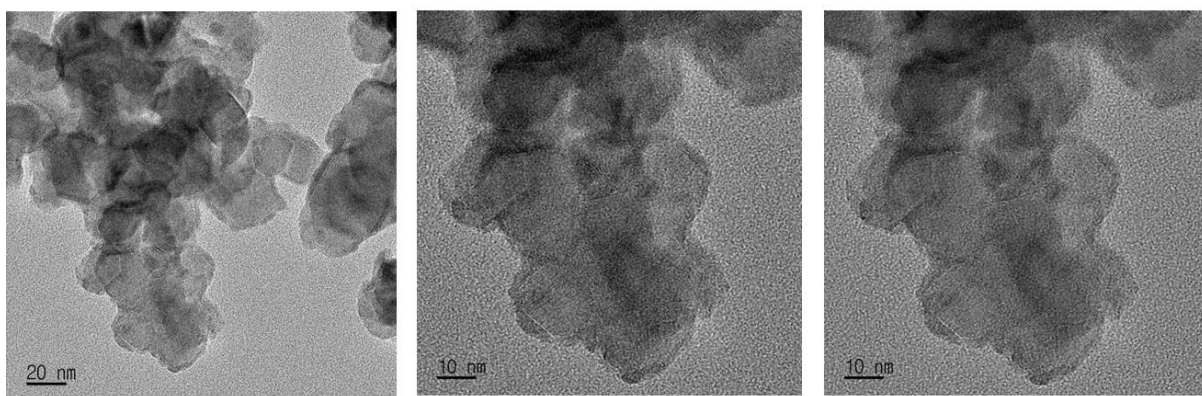


Fig. S2 Magnified TEM images of CdS(7) (upper line) and CuS(1)/CdS(7) (lower line) QDs deposited by SILAR process onto the surface of TiO<sub>2</sub> films.