

Supplementary Materials: Constructing a MoS₂ QDs/CdS Core/Shell Flowerlike Nanosphere Hierarchical Heterostructure for the Enhanced Stability and Photocatalytic Activity

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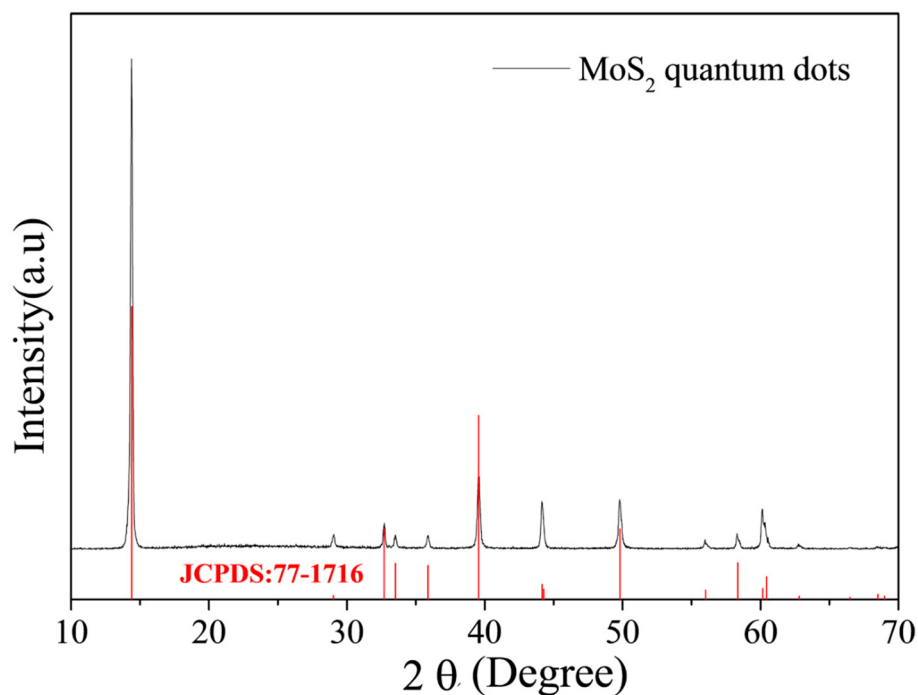


Figure S1. XRD pattern of MoS₂ quantum dots.

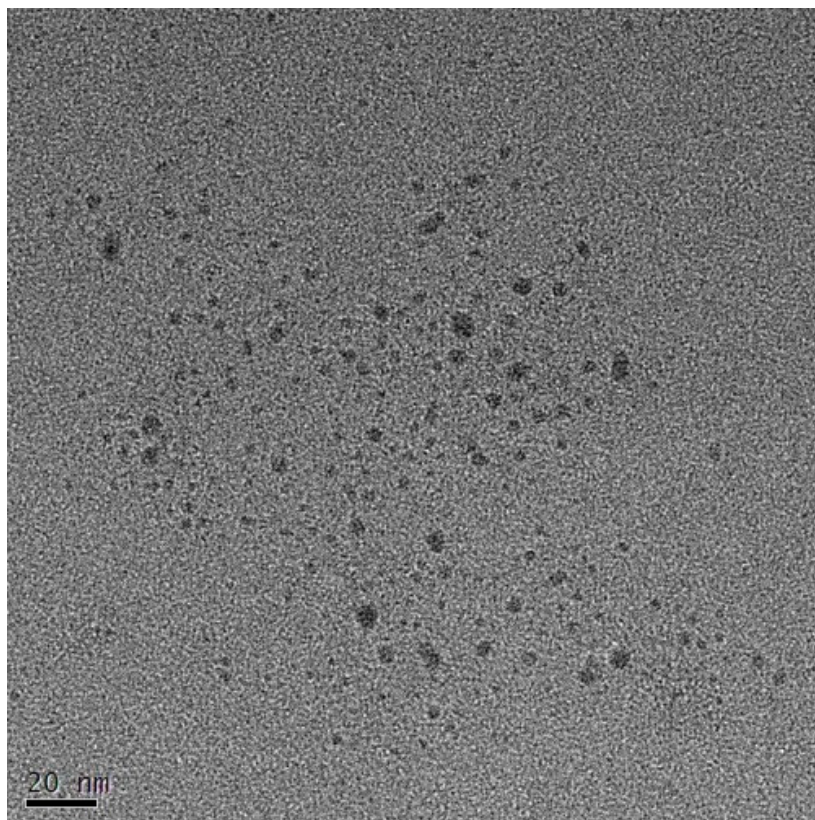


Figure S2. TEM image of MoS₂ quantum dots.

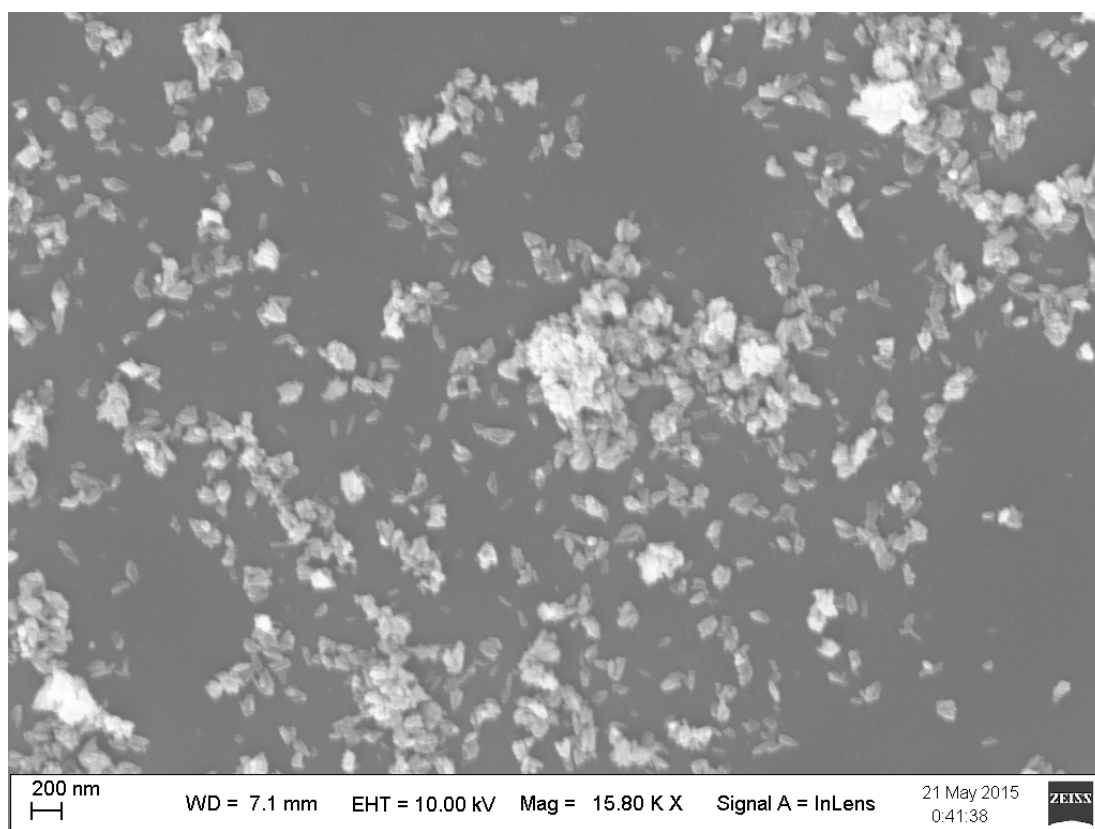


Figure S3. SEM image of the pure CdS sample.

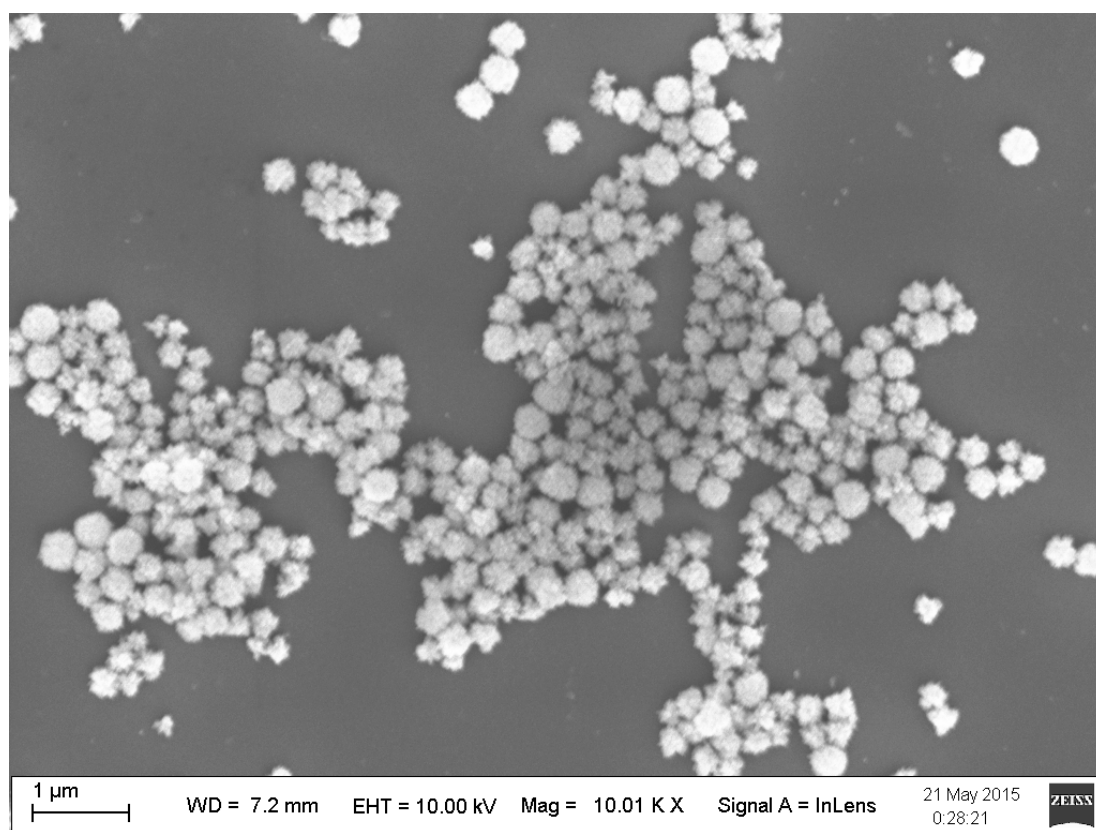


Figure S4. SEM image of the MoS₂ QDs/CdS sample.

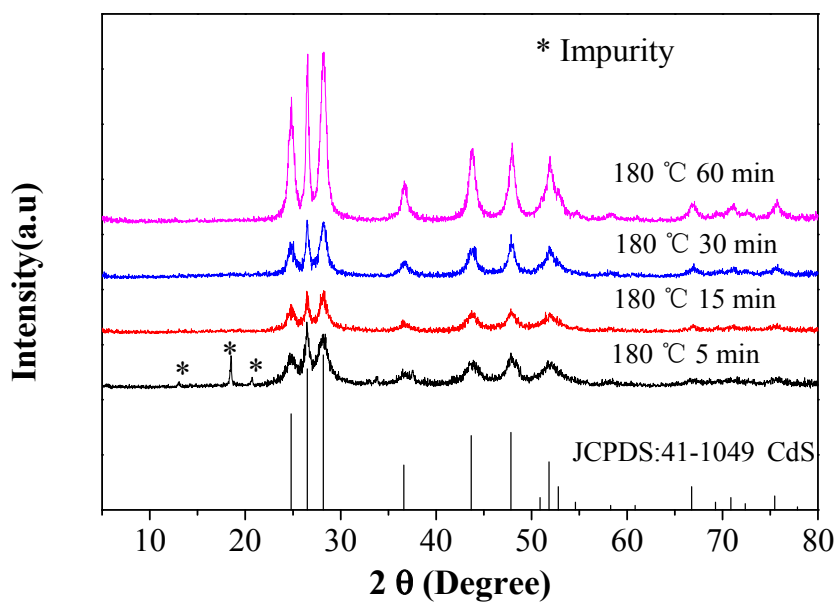


Figure S5. XRD patterns of the MoS₂ QDs/CdS samples prepared for different times.

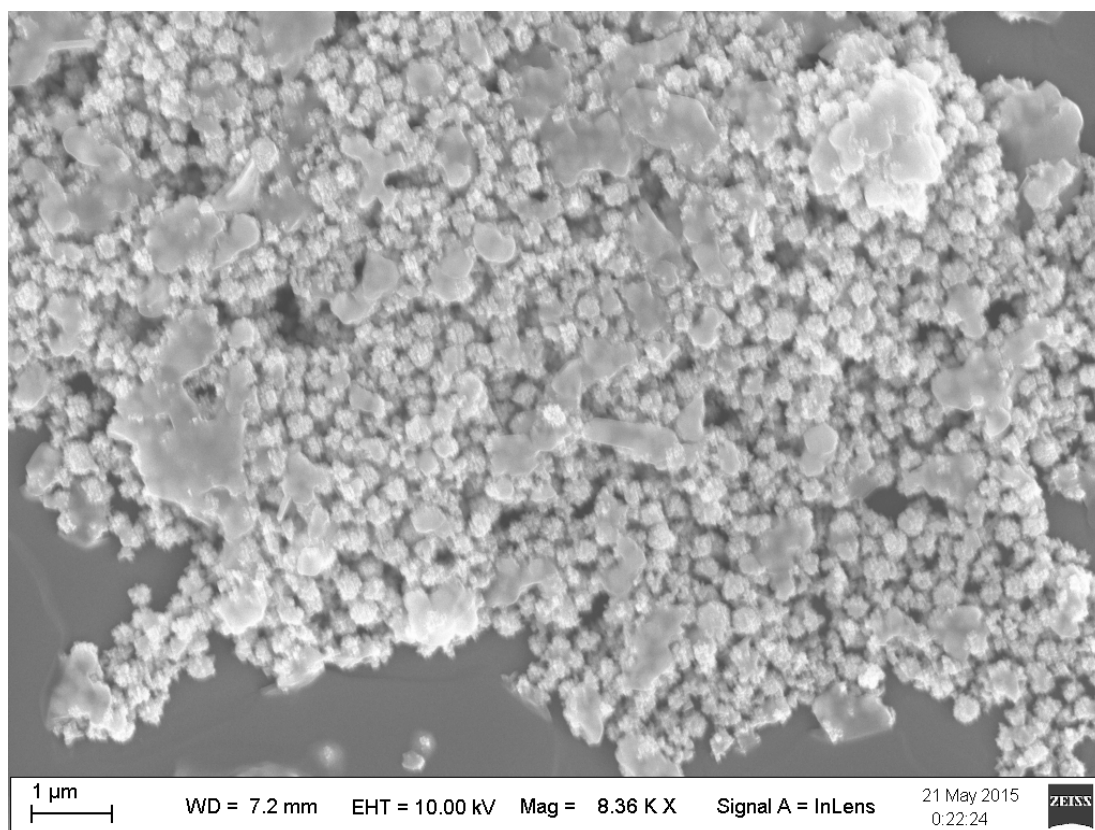


Figure S6. SEM image of MoS₂ QDs-CdS, MoS₂-QDs-L-cys was replaced with MoS₂-QDs in the microwave hydrothermal route.

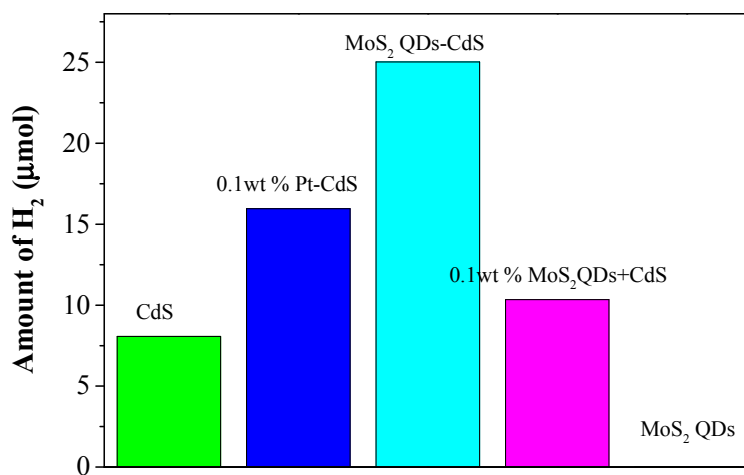


Figure S7. The amount of H₂ evolution over CdS, 0.1 wt% Pt/CdS, MoS₂ QDs/CdS, 0.1 wt% MoS₂ QDs + CdS and MoS₂ QDs under visible light irradiation after 4 h.