

*Supporting Information for*

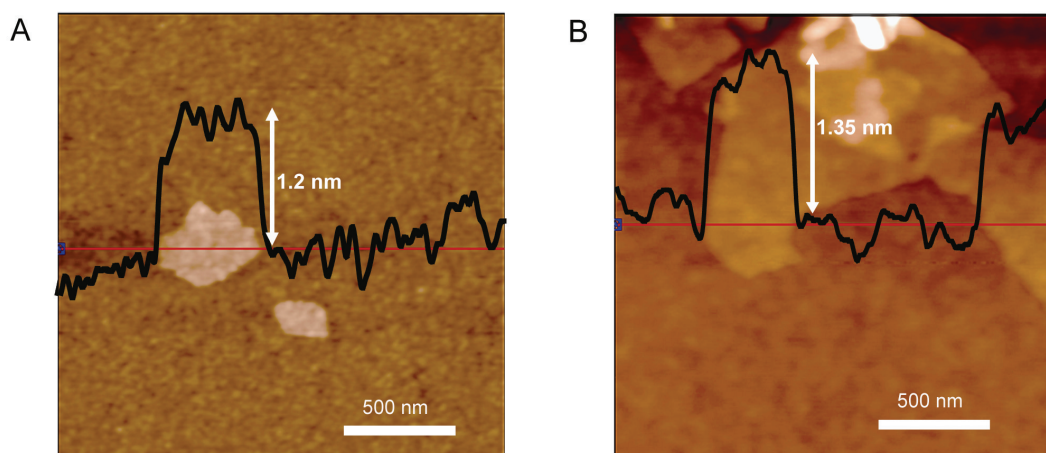
**Immobilizing CdS Quantum Dots and Dendritic Pt Nanocrystals on  
Thiolated Graphene Nanosheets toward Highly Efficient  
Photocatalytic H<sub>2</sub> Evolution**

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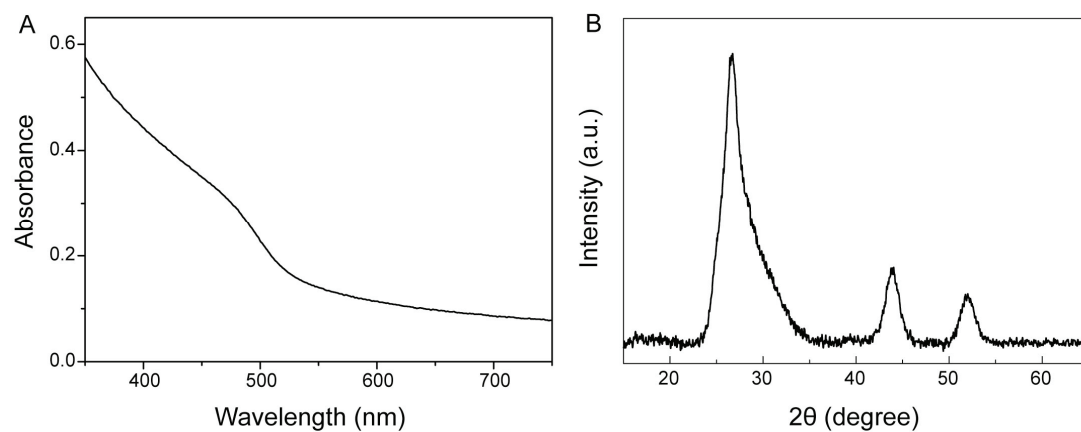
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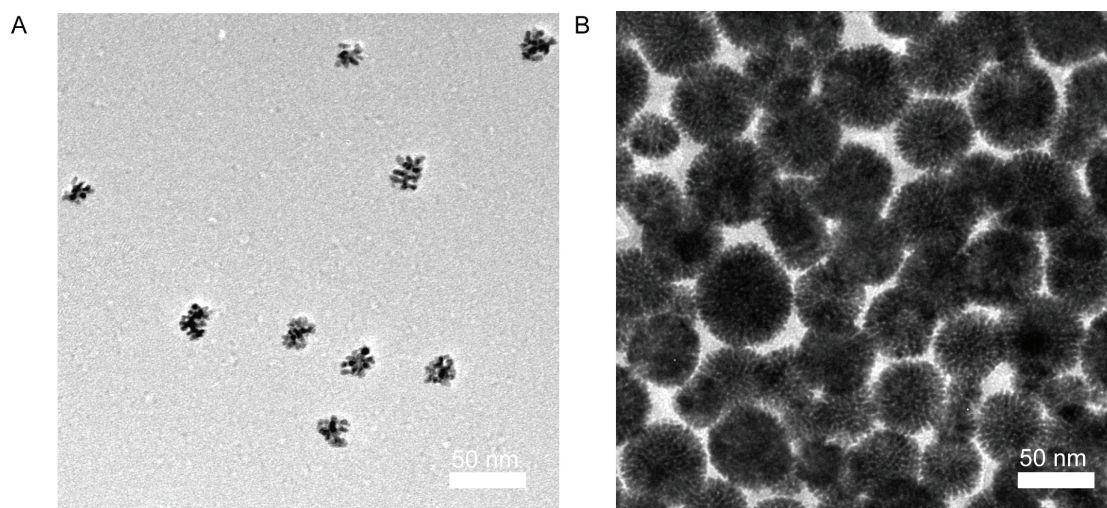
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**Figure S1.** AFM images of as-synthesized GO nanosheets (A) and GO<sub>cys</sub> (B) spin-coated on silicon wafer with a 300 nm SiO<sub>2</sub> top layer.



**Figure S2.** UV-vis absorption spectrum (A) and XRD pattern (B) of a bulk cubic CdS sample.



**Figure S3.** TEM images of the PVP (A) and CTAB (B) stabilized Pt nanoparticles.