Electronic Supplementary Material (ESI) for RSC Advances.
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Supporting Information

Metallic 1T Phase MoS_2 Nanosheets as Highly Efficient Co-catalyst for the Photocatalytic Hydrogen Evolution of CdS Nanorods

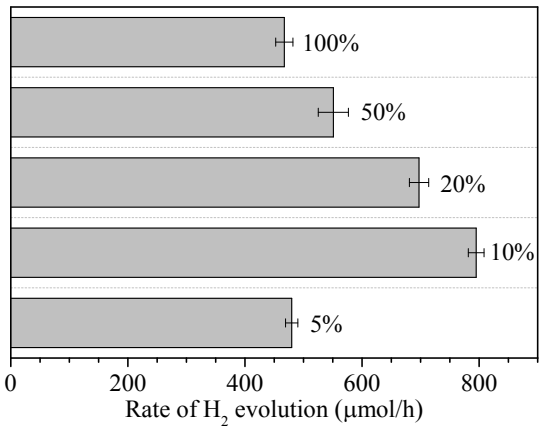

Figure S1. H_2 evolution rate over photocatalysts with different weight ratio of 1T–MoS_2 to CdS NRs.

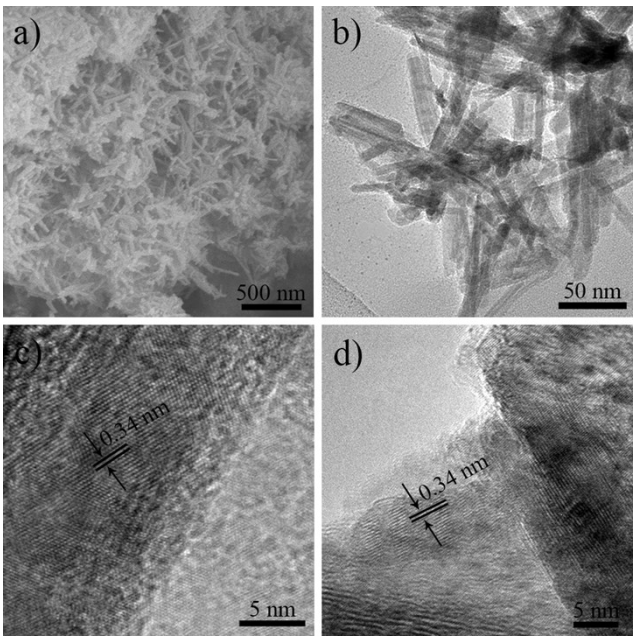

Figure S2. (a) SEM image of CdS NRs and (b) TEM image of CdS NRs. HRTEM images of (c) 1T–MoS_2/CdS NRs and (d) 2H–MoS_2 /CdS NRs.

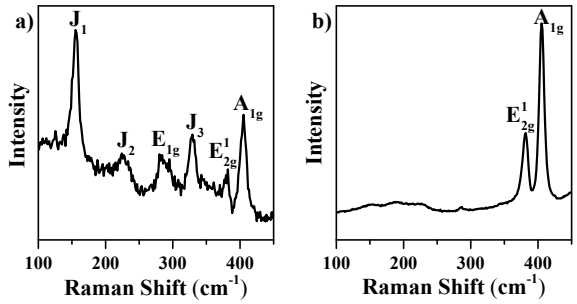

Figure S3. Raman spectra of (a) 1T–MoS_2 and (b) 2H–MoS_2.

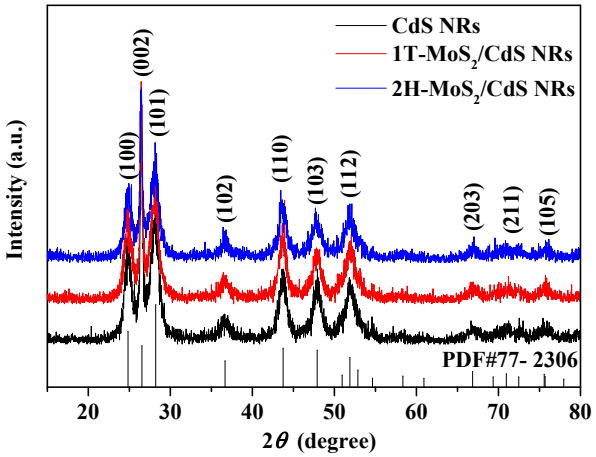

Figure S4. XRD patterns of CdS NRs, 1T–MoS_2/CdS NRs and 2H–MoS_2/CdS NRs.

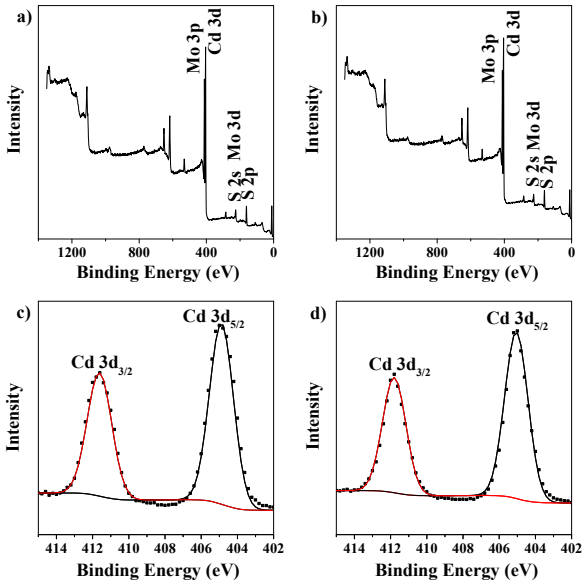

Figure S5. XPS survey spectra of (a) 1T–MoS_2/CdS NRs and (b) 2H–MoS_2/CdS NRs. The high-resolution XPS spectra of Cd (3d) of (c) 1T–MoS_2/CdS NRs and (d) 1T–MoS_2/CdS NRs.