

## Morphology-preserved Transformation of CdS Hollow Structures Toward Photocatalytic H<sub>2</sub> Evolution

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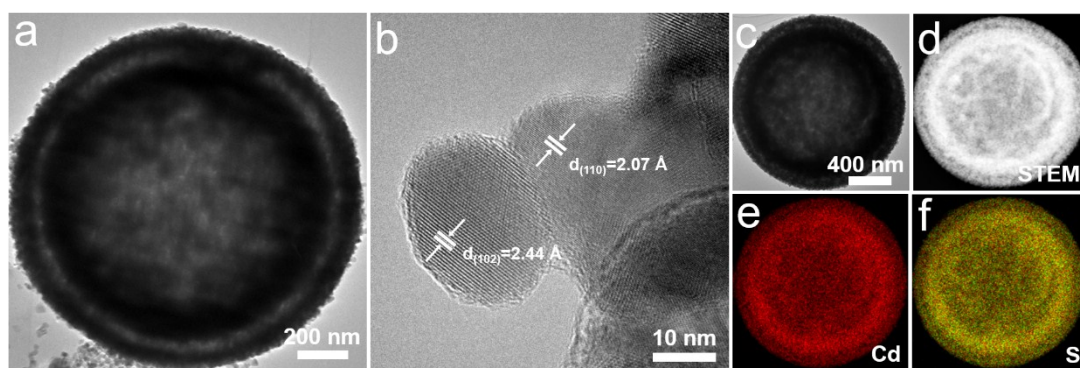


Figure S1. a-b) TEM and HRTEM images of CdS-6. d-f) Corresponding HAADF-STEM and EDX mapping images of CdS-6

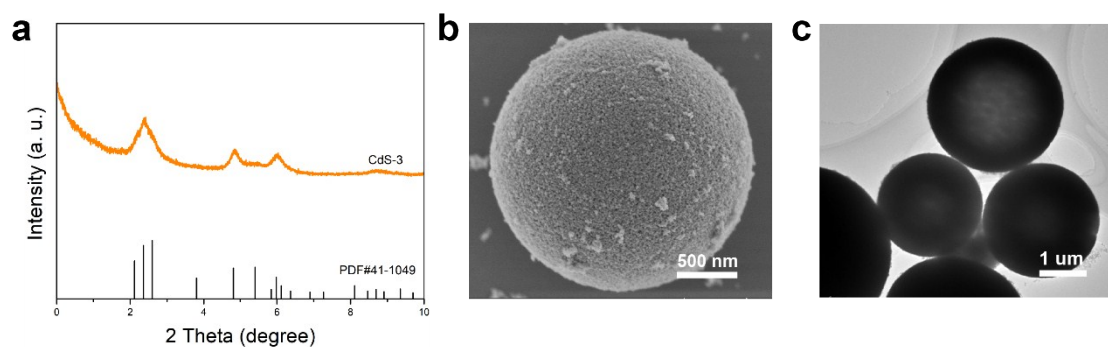


Figure S2. a) XRD pattern of CdS-3; b-c) SEM and TEM images of CdS-3

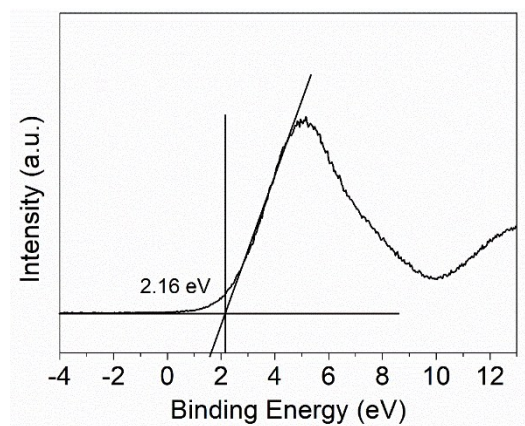


Figure S3. VB XPS spectra of CdS-6

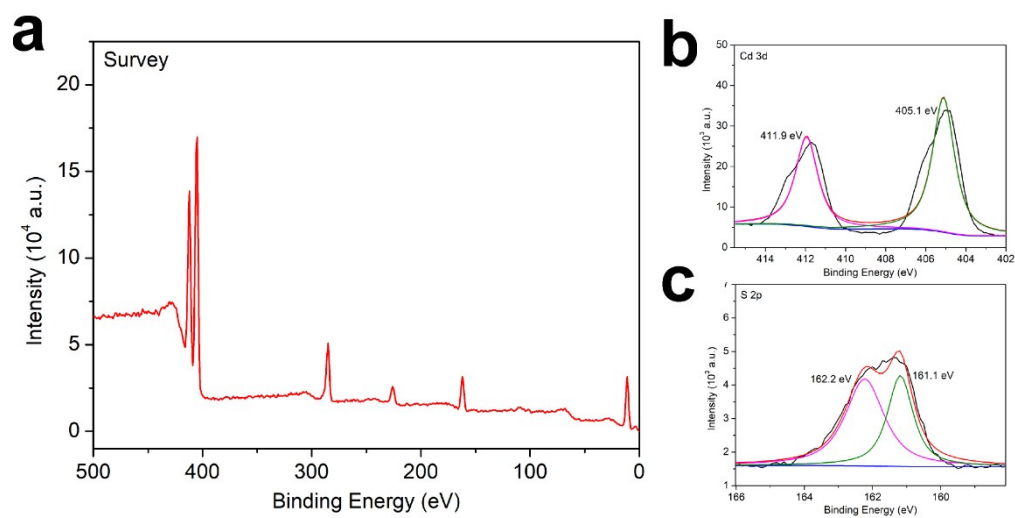


Figure S4. XPS spectra of CdS-6 after photocatalytic HER tests

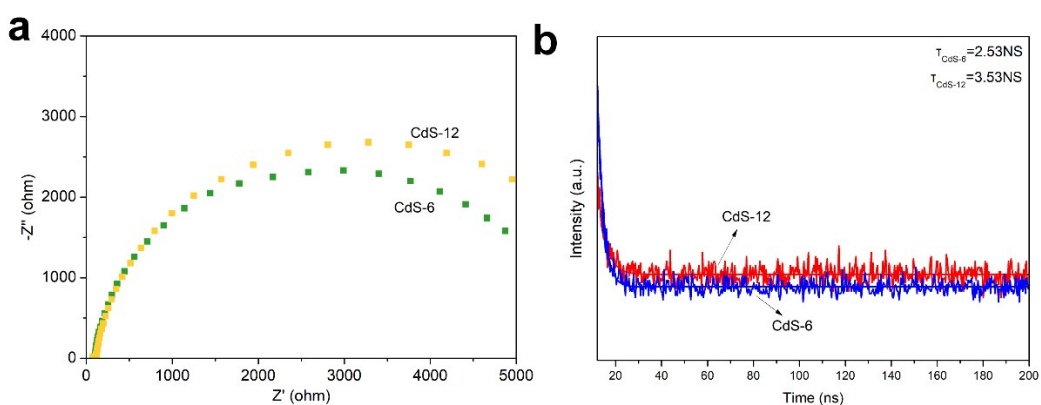


Figure S5. a) Electrochemical impedance spectra of the samples; b) Time-resolved photoluminescence spectra of the samples.