

Electronic Supplementary Material

Synthesis of two porous CdS rods by anion exchange method and their photocatalytic properties

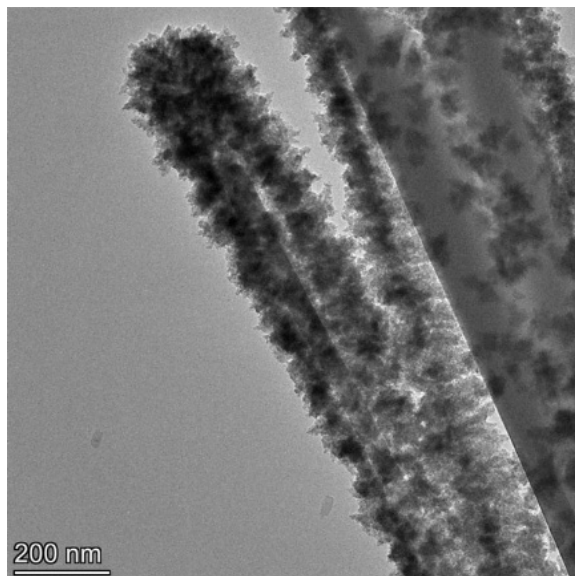


Figure S1: TEM image of Cd-Cys@CdS core-shell rods.

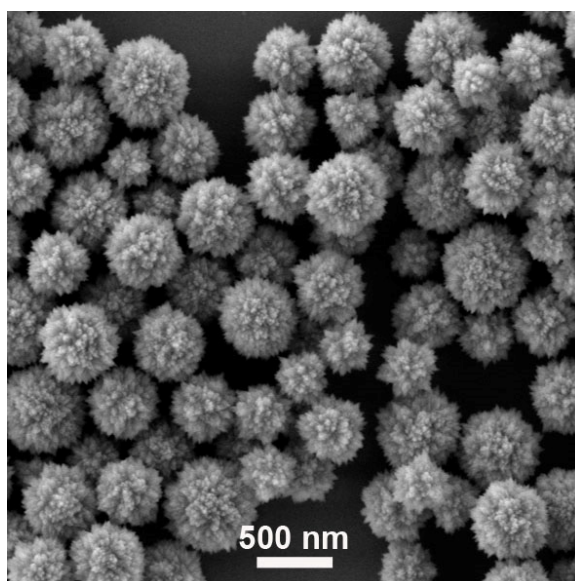


Figure S2: SEM image of CdS SSs. Typically, 1 mmol $\text{Cd}(\text{NO}_3)_2$ and 2 mmol cysteine were dissolved in 30 mL deionized water to form a clear solution after stirring for 30 min. The solution was then transferred into a 50 mL autoclave. The autoclave was sealed and heated to 130 °C for 6 h and cooled naturally to room temperature.

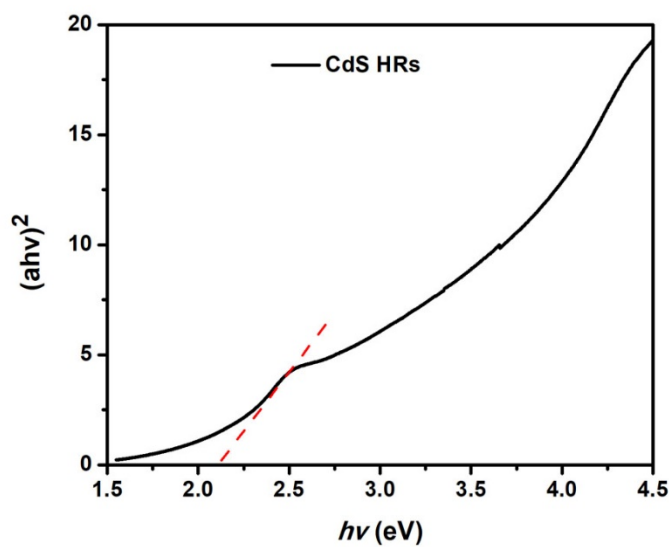


Figure S3: Tauc plots of the CdS HRs.

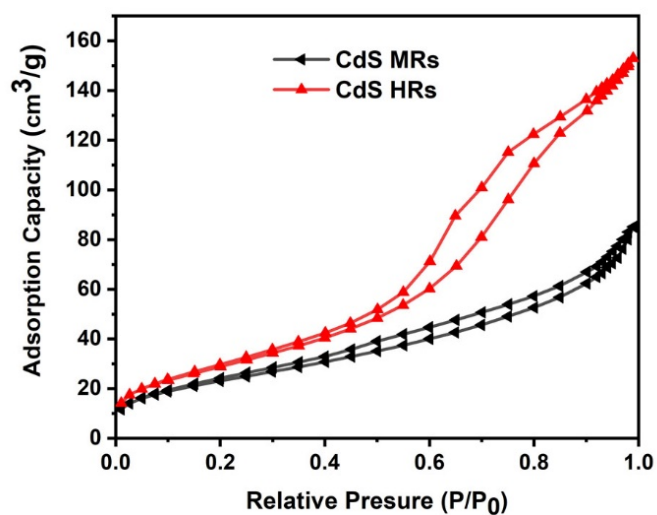


Figure S4: N₂ adsorption-desorption isotherms for CdS MRs and CdS HRs.

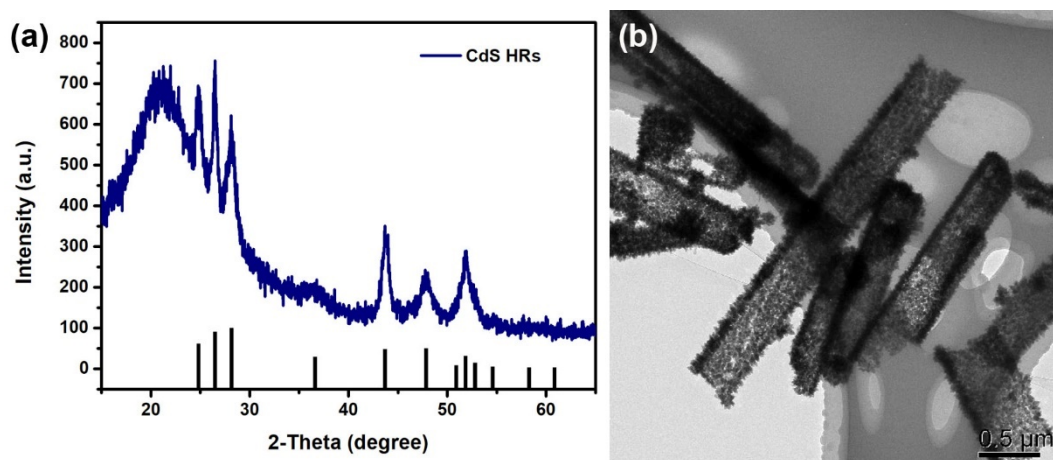


Figure S5: (a) XRD pattern and (b) TEM image of the CdS HRs after the cycling tests.