

Supporting Information

Room-temperature synthesis of $\text{Zn}_{0.80}\text{Cd}_{0.20}\text{S}$ solid solution with a high visible-light photocatalytic activity for hydrogen evolution

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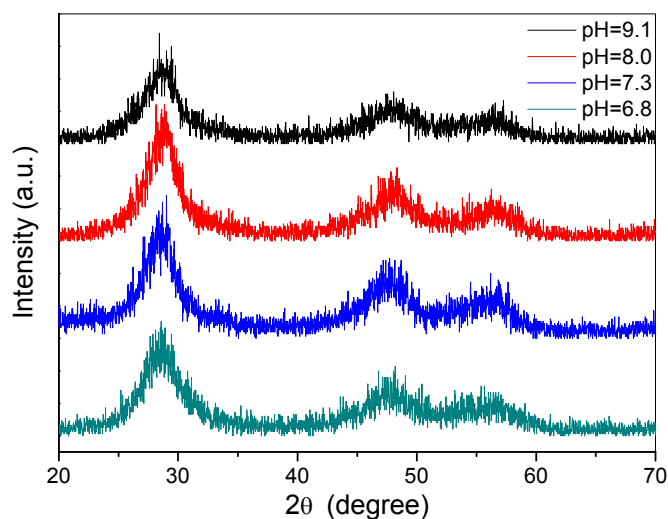


Fig. S1 XRD patterns of $\text{Zn}_{1-x}\text{Cd}_x\text{S}$ samples prepared at different pH.

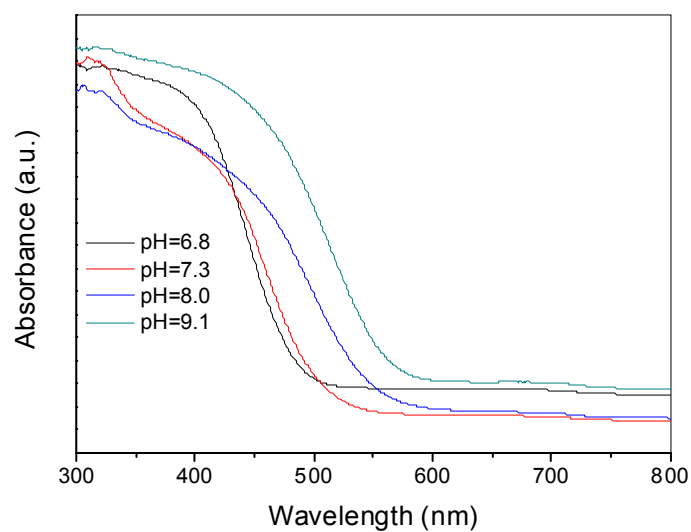


Fig. S2 UV-Vis absorption spectra of $\text{Zn}_{1-x}\text{Cd}_x\text{S}$ samples prepared at different pH.

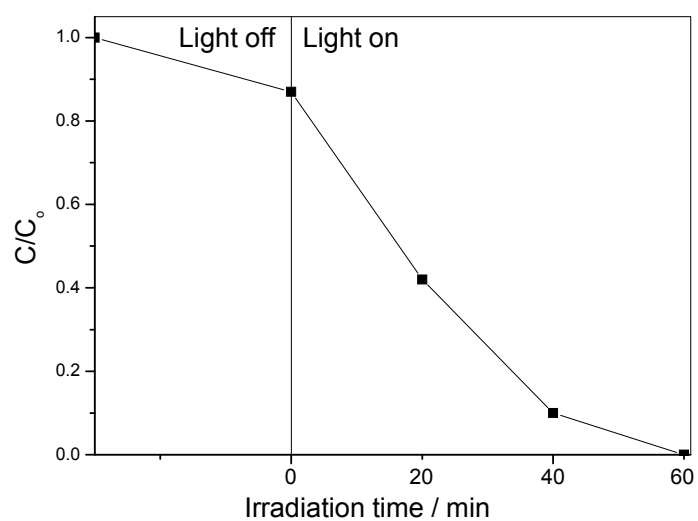


Fig. S3 Photocatalytic degradation of RhB over $\text{Zn}_{0.80}\text{Cd}_{0.20}\text{S}$ under visible light irradiation ($\lambda \geq 420 \text{ nm}$).