

Title: Preparation of 1D cubic $\text{Cd}_{0.8}\text{Zn}_{0.2}\text{S}$ solid solution nanowires using levelling effect of TGA and improved photocatalytic H_2 -production activity

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Electronic supporting information (ESI)

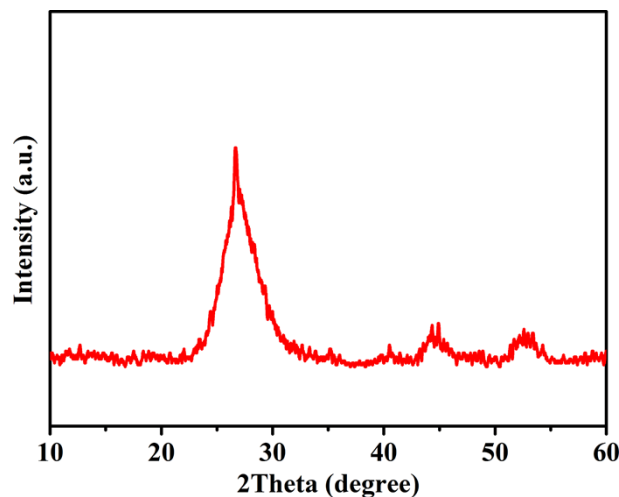


Fig. S1 XRD pattern of the as prepared $\text{Cd}_{0.8}\text{Zn}_{0.2}\text{S}$ solid solution at 180 °C.

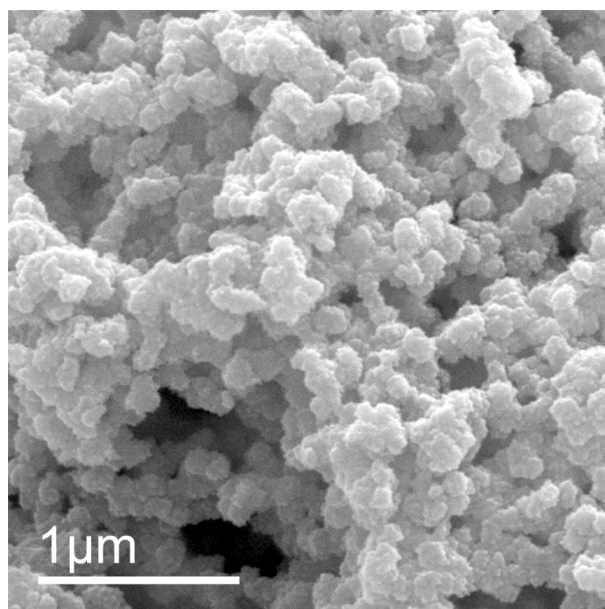


Fig. S2 SEM image of the as-prepared $\text{Cd}_{0.8}\text{Zn}_{0.2}\text{S}$ solid solution at 180 °C

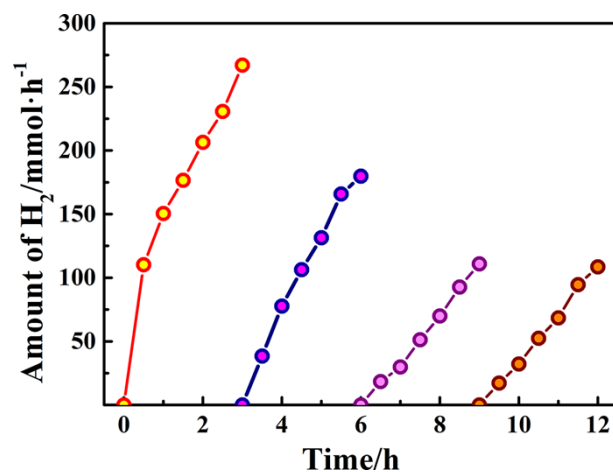


Fig. S3 Cycle operation of H₂ evolution on the as-prepared 1D Cd_{0.8}Zn_{0.2}S solid solution nanowires.

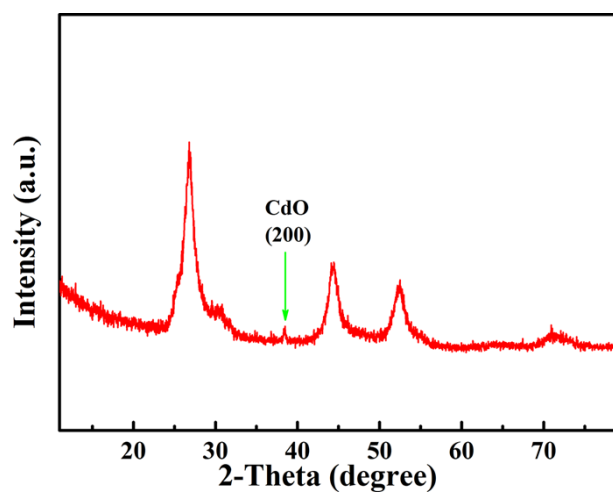


Fig. S4 XRD pattern of the 1D Cd_{0.8}Zn_{0.2}S solid solution nanowires after cycling for 12 h.

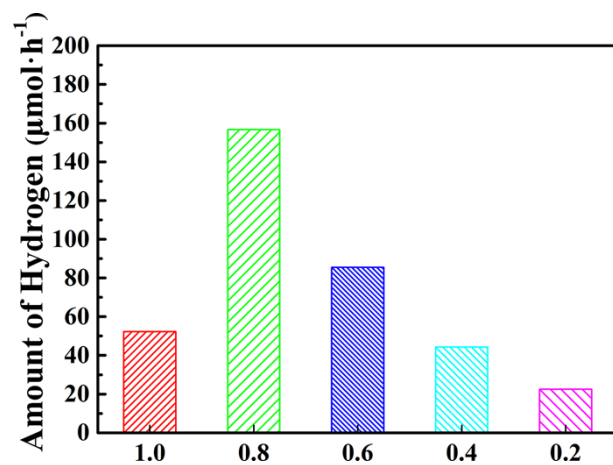


Fig. S3 Photocatalytic activities of the Cd_xZn_{1-x}S with different Cd-Zn ratio, $x=1, 0.8, 0.6, 0.4, 0.2$.