Colloidal Cd$_x$Zn$_{1-x}$S nanocrystals as efficient photocatalysts for H$_2$ production under visible-light irradiation

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**Figure S1** XPS spectra of Zn 2p, Cd 3d, S 2p of the Cd$_{0.8}$Zn$_{0.2}$S nanocrystals.
Figure S2 Time-cycle photocatalytic hydrogen production over the Cd$_{0.8}$Zn$_{0.2}$S nanocrystals with visible-light illumination ($\lambda \geq 420$ nm).