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Scalable fabrication of $\text{Zn}_x\text{Cd}_{1-x}\text{S}$ double-shell hollow nanospheres for highly efficient hydrogen production

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Graphic Abstract

A novel sacrificial template strategy has been developed to fabricate alloyed $\text{Zn}_x\text{Cd}_{1-x}\text{S}$ double-shell hollow nanospheres. When evaluated for their photocatalytic properties, the as-prepared alloyed $\text{Zn}_{0.46}\text{Cd}_{0.54}\text{S}$ double-shell hollow nanospheres exhibit the excellent hydrogen production under visible-light illumination.

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