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Electronic Surpporting Information

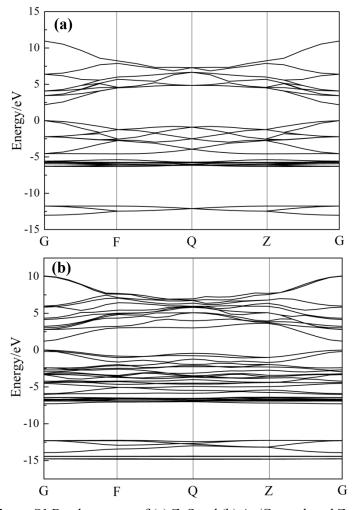
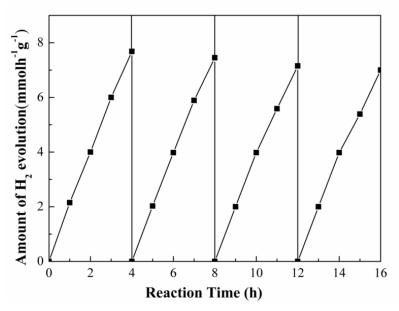


Figure S1 Band structure of (a) ZnS and (b) Ag/Cu co-doped ZnS-In₂S₃.



 $\textbf{Figure S2} \ \ \text{Photo-stability of Ag/Cu co-doped ZnS-In}_2S_3.$

Table S1 Molar ratio of metal ions in the samples

Ag/mL	Cu/mL	In/Zn	Ag/Zn	Cu/Zn
0	0	0.17	-	-
0.1	0	0.16	0.0039	-
0.1	0.1	0.16	0.0037	0.0035
0.1	0.2	0.16	0.0037	0.0076
0.2	0.2	0.15	0.0077	0.0077
0.2	0.3	0.16	0.0076	0.012
0.3	0.2	0.15	0.012	0.0074