Supporting Information

Preparation and photocatalytic hydrogen production of pink ZnS

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Table. S1 Comparison of photocatalytic hydrogen production performance among different ZnS catalysts

No.	Photocatalyst	Light Source	Sacrificial Agent	H2 production (μmol h^{-1} g^{-1})	Ref.
1	ZnS film	300 W Xe-Lamp	Na_2S/Na_2SO_3	5202	[1]
2	$Zn_{0.98}Ni_{0.02}S$	300W Xe-Lamp	Na_2S/Na_2SO_3	419.80	[2]
3	N-ZnS	300W Xe-Lamp	lactic acid	243.61	[3]
4	ZnO@ZnS	300W Xe-Lamp	Na2S/Na2SO3	2400	[4]
5	ZnS/ZnO/Graphitic	300W Xe-Lamp	Na2S/Na2SO3	1813	[5]
6	ZnS	300 W Xe-Lamp	lactic acid	7631.70	Our work

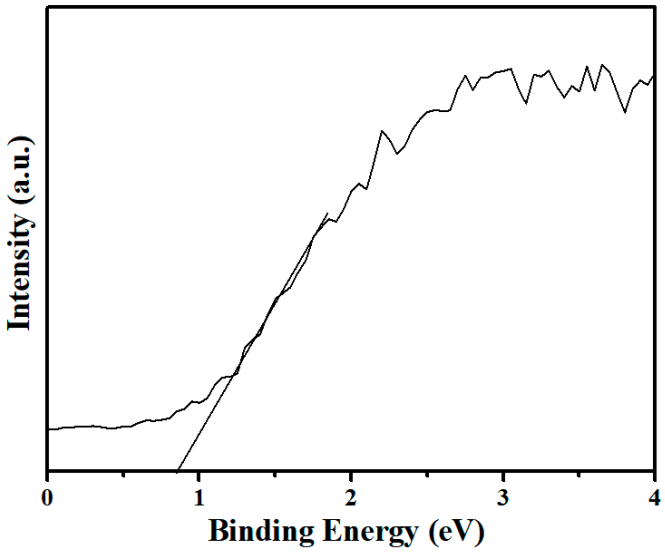


Figure S1. The VB XPS spectrum of ZnS-160

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