

Supplementary Material:

Synthesis of g-C₃N₄@ZnIn₂S₄ Heterostructures with Extremely High Photocatalytic Hydrogen Production and Reusability

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Materials	HER ($\mu\text{mol h}^{-1} \text{g}^{-1} \text{L}^{-1}$)	Light sources	References
g-C₃N₄@ZnIn₂S₄ heterostructures	2377.6	5 W blue LED	Present work
TiOF₂/g-C₃N₄ composite	2292	300 W Xe lamp	Ref. 63
TiO₂/CdS/g-C₃N₄ ternary nanocomposite	1165	1000 W Xe lamp	Ref. 25
UiO-66-NH₂/ZnIn₂S₄ nanosheets	417	300 W Xe lamp	Ref. 64
ZnIn₂S₄/ZnO heterostructures	631.1	5 W blue LED	Ref. 65

Table S1 List of photocatalytic hydrogen evolution for the g-C₃N₄@ZnIn₂S₄ heterostructures and other similar photocatalysts reported in the literature.

	g-C₃N₄	0.005 g g-C₃N₄ @ZnIn₂S₄	0.01 g g-C₃N₄ @ZnIn₂S₄	0.025 g g-C₃N₄ @ZnIn₂S₄	0.05 g g-C₃N₄ @ZnIn₂S₄	ZnIn₂S₄
Ω	1147500	575240	349080	584420	824900	669760

Table S2 The charge transfer resistance values of g-C₃N₄ nanostructures, g-C₃N₄@ZnIn₂S₄ heterostructures with different weights of g-C₃N₄ nanostructures, and ZnIn₂S₄ nanostructures.