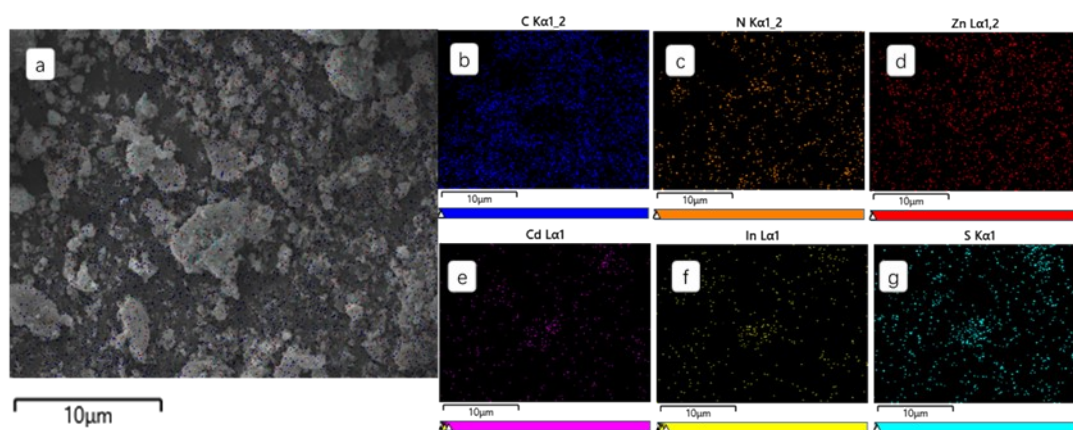


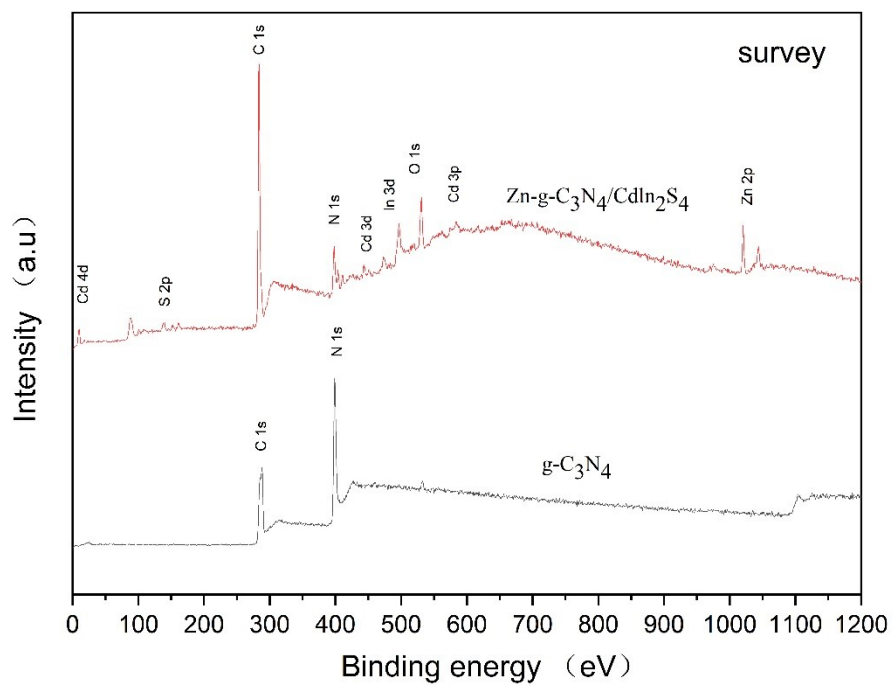
CdIn<sub>2</sub>S<sub>4</sub> microspheres embedded with mesoporous Zn-doped g-C<sub>3</sub>N<sub>4</sub> ultrathin nanosheets for efficient photocatalytic hydrogen evolution and reduction of.

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**Fig. S1.** (a) SEM images of CdIn<sub>2</sub>S<sub>4</sub>/Zn-g-C<sub>3</sub>N<sub>4</sub> nanocomposite, and the spatially resolved elemental maps of CdIn<sub>2</sub>S<sub>4</sub>/Zn-g-C<sub>3</sub>N<sub>4</sub> sample containing (b) C, (c) N, (d) Zn, (e) Cd, (f) In and (g) S elements.



**Fig. S2** The survey XPS spectra of CdIn<sub>2</sub>S<sub>4</sub>/Zn-g-C<sub>3</sub>N<sub>4</sub> nanocomposite.