



Fig. S4. UV-vis diffuse reflectance spectra (a) of ZnIn<sub>2</sub>S<sub>4</sub> and Au/ ZnIn<sub>2</sub>S<sub>4</sub>; the band-gap energies (b) of ZnIn<sub>2</sub>S<sub>4</sub> and Au/ ZnIn<sub>2</sub>S<sub>4</sub> samples.