EDX.tif

*Fig. S1. EDS of CFITS nanoplates. The relative elemental ratios for Cu:Fe:In:Sn:S are 3.16:1:1.1**3:1.01:6.27. The C, O and Ni signals result from the carbon substrate. The observed Si signal is from the Si detector.*

Table S1. The overall element ratios of CFITS nanoplates determined by ICP-MS analysis

|  |  |
| --- | --- |
| Sample | Element ratios for Cu: Fe: In: Sn: S |
| CFITS | 3.13:1:1.15:0.97:6.22 |

组合.tif

*Fig. S2. XPS spectra of CFITS nanoplates.*

I-V stability.tif

*Fig. S3. I–V characteristics of a CFITS thin film at varying* *exposure times to air.*