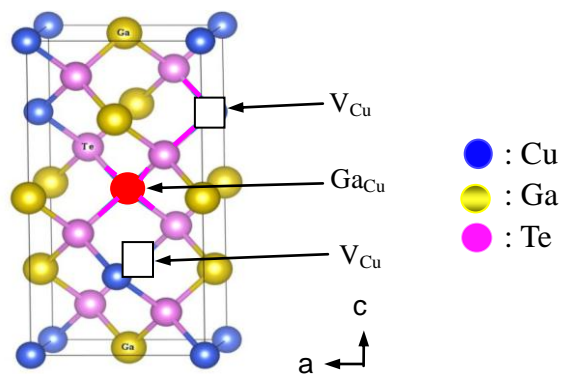


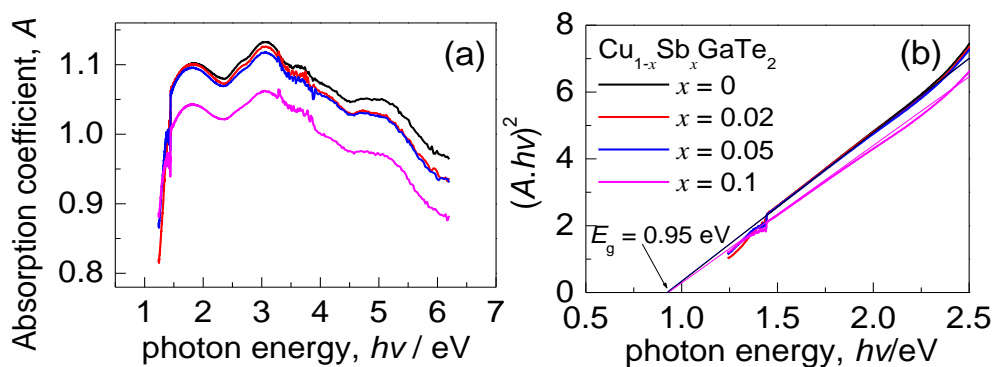
† Electronic Supplementary Information (ESI) available:

Supplementary Fig.1 Crystal structure of the defect chalcopyrite compound CuGaTe_2

Supplementary Fig.2 (a) The absorption coefficient spectra $A(h\nu)$, A is the absorption coefficient; (b) Experimentally determined bandgaps E_g (0.95 eV).



(Supplementary Figure 1)



Supplementary Figure 2