

Fig. S1 PXRD pattern of Cs_2CuCl_4 crystal and the data obtained by Rietveld fitting program.

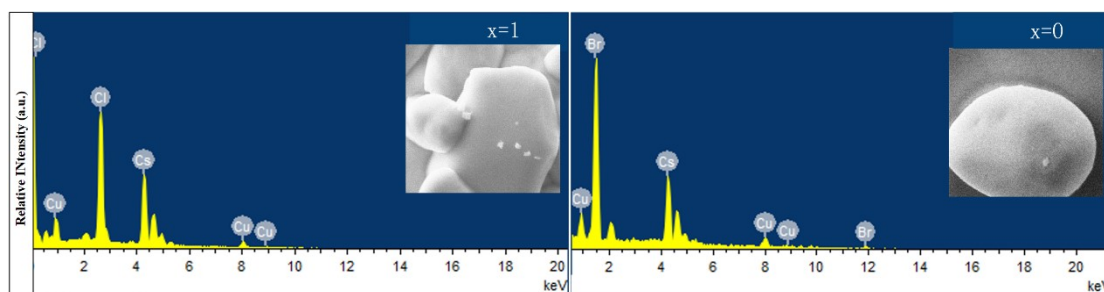


Fig. S2 SEM and EDS of the Cs_2CuCl_4 and Cs_2CuBr_4 single crystals.

Table S1 Comparison of the absorption performance in this work with previous reports.

$\text{Cs}_2\text{Cu}(\text{Cl}_x\text{Br}_{1-x})_4$	absorption band (this work)	absorption band (reported work)
x=0	321	335 ^[15]
x=0.25	303	/
x=0.5	293	290 ^[16]
x=0.75	281	/
x=1	388	374 ^[22]