

**Structural and luminescence characteristics of $\text{CuAl}_x\text{In}_{1-x}\text{Se}_2$ ($0 < x \leq 0.30$)
chalcopyrite solid solutions**

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Table S1 The experimental values of unit cell parameters (a , c) of $\text{CuAl}_x\text{In}_{1-x}\text{Se}_2$ solid solutions.

x in $\text{CuAl}_x\text{In}_{1-x}\text{Se}_2$	a , $\pm 0.003 \text{ \AA}$	c , $\pm 0.005 \text{ \AA}$
0 (CuInSe_2)	5.781	11.618
0.05	5.767	11.540
0.10	5.756	11.513
0.15	5.745	11.490
0.20	5.738	11.476
0.25	5.729	11.458
0.30	5.720	11.440