

Table S1 The chemical compositions (relative molars) identified using EPMA for $\text{In}_{2-x}\text{Zn}_x\text{Se}_3$ ($x=0.005, 0.01, 0.02$) (each taken from a mapping).

Sample	In	Zn	Se
$\text{In}_{1.995}\text{Zn}_{0.005}\text{Se}_3$	2.047	0.004	2.949
$\text{In}_{1.99}\text{Zn}_{0.01}\text{Se}_3$	2.051	0.008	2.941
$\text{In}_{1.98}\text{Zn}_{0.02}\text{Se}_3$	2.005	0.016	2.979