

Supplementary Information

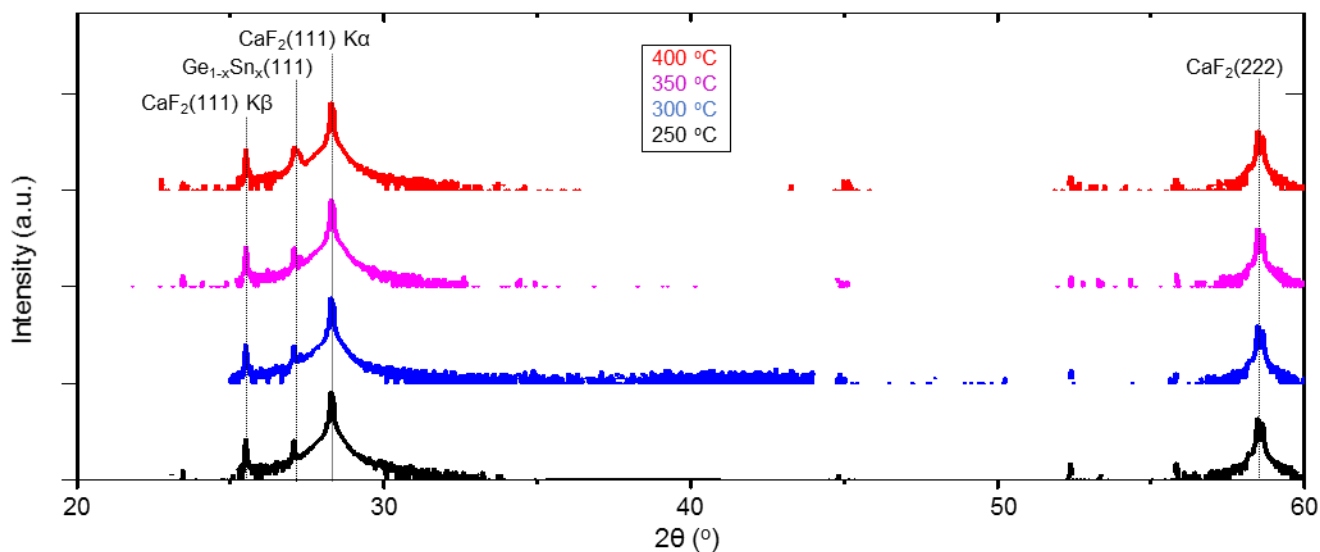


Figure S1. XRD $\theta/2\theta$ scans of $\text{Ge}_{1-x}\text{Sn}_x$ films grown on $\text{CaF}_2(111)$ substrates. Scans are plotted in log scale.

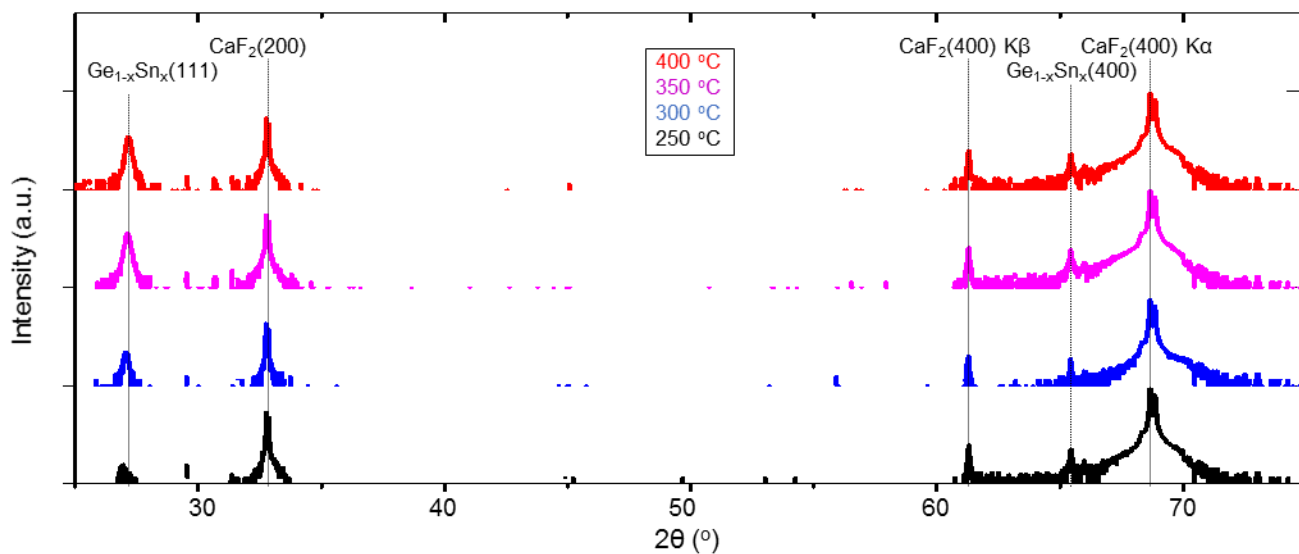


Figure S2. XRD $\theta/2\theta$ scans of $\text{Ge}_{1-x}\text{Sn}_x$ films grown on $\text{CaF}_2(100)$ substrates. Scans are plotted in log scale.

Note: Scans are plotted in logarithmic scale – if zero counts are recorded at a given 2θ position, no signal will show up in log scale.