

## Supplementary Material

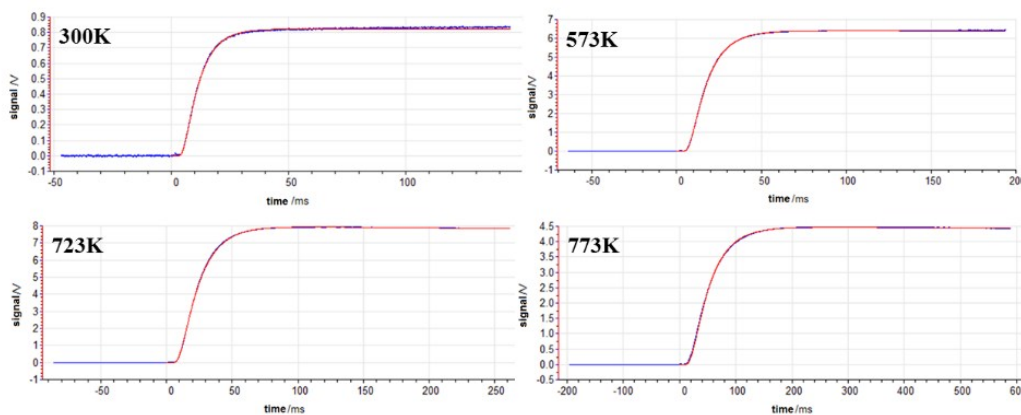
### New Insight to InSb-based Thermoelectric Materials: From the Divorced Eutectic Design to Remarkable High Thermoelectric Performance

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The thermal diffusivity was measured by the laser flash method with a Netzsch LFA-427 equipment. The figure below shows the time dependence of voltage signal of InSb<sub>1.04</sub> at four different



temperature during the measurement of thermal diffusion.

Fig.1 Time dependence of voltage signal.

We can see all V-T curves are similar and smooth, and cannot see any abnormal peaks. The stability of signal shows that the sample was under an equilibrium state and didn't have any phase transition during measurement.

Sample Name	Nominal Composition (at.%)		EDAX Composition (at.%)	
	In	Sb	In	Sb
InSb	50	50	50.16	49.84
InSb <sub>1.01</sub>	49.5	50.5	49.27	50.73
InSb <sub>1.02</sub>	49	51	48.93	51.07
InSb <sub>1.03</sub>	48.5	51.5	48.58	51.42
InSb <sub>1.04</sub>	48	52	47.69	52.31

Table.1 Nominal composition and compositions obtained by the EDAX tests.