Supporting Information (SI)

Reduction of thermal conductivity through nanostructuring enhances the thermoelectric figure of merit in Ge$_{1-x}$Bi$_x$Te

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**Fig. S1** Two cycles of heating and cooling zT data of Ge$_{0.94}$Bi$_{0.06}$Te.

**Fig. S2** Temperature dependent thermal diffusivity of Ge$_{1-x}$Bi$_{x}$Te (x = 0-0.10) samples.
**Fig. S3** Dulong-Petit and experimentally measured $C_p$ of $\text{Ge}_{1-x}\text{Bi}_x\text{Te}$ as a function of temperature.

**Fig. S4** Optical micrographs of Vickers microhardness impressions of (a) GeTe and (b) $\text{Ge}_{0.94}\text{Bi}_{0.06}\text{Te}$. 
**Fig. S5** Temperature dependent electronic thermal conductivity of Ge$_{1-x}$Bi$_x$Te ($x = 0$-0.10) samples.

**Fig. S6** Temperature dependent Lorenz number as a function of temperature.