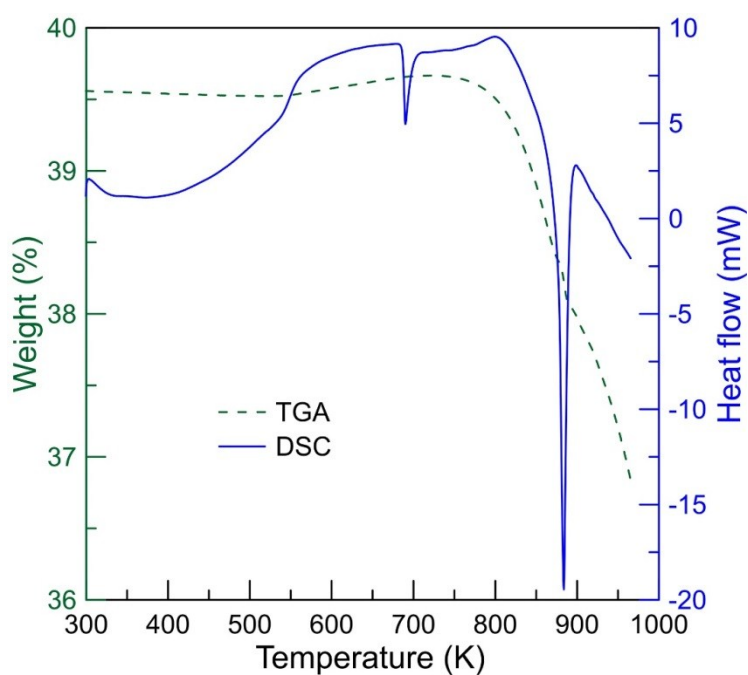


## Supplementary information

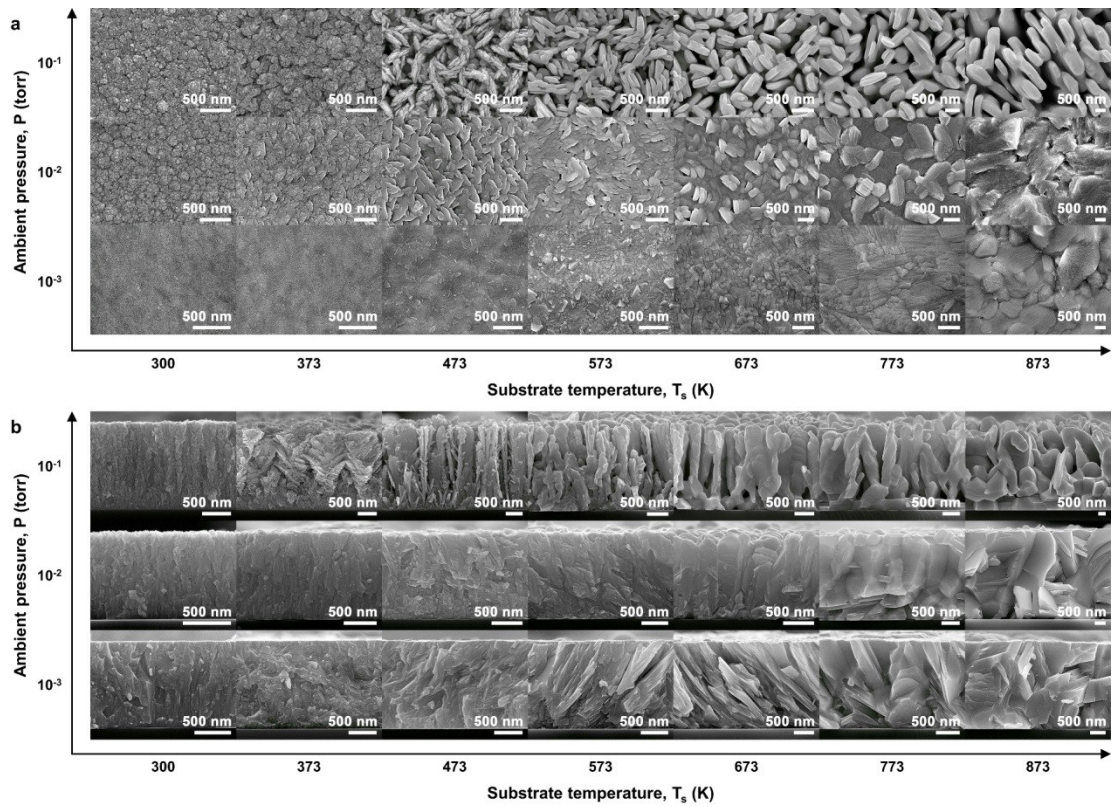
### Enhanced thermoelectricity of three-dimensionally mesostructured $\text{Bi}_x\text{Sb}_{2-x}\text{Te}_3$ nanoassemblies: from micro-scaled open gaps to isolated sealed mesopores

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**Fig. S1** DSC and TGA characterizations of the raw  $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$  powders.



**Fig. S2** (a) top-view and (b) cross-sectional SEM images of the BST nanoassemblies grown at substrate temperatures ( $T_s$ ) ranging from 300 K to 873 K and ambient pressures ( $P$ ) ranging from  $10^{-1}$  torr to  $10^{-3}$  torr.