Supplementary information

Enhanced thermoelectric properties of p-type CoSb$_3$/graphene nanocomposite

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Fig. S1 FTIR of CoSb$_3$/G, graphene and GO powder.

Fig. S2 HRTEM image of the folded area of a CoSb$_3$/G flake.
Fig. S3 Cross section SEM images of (a) CoSb$_3$+G and (b) bare CoSb$_3$ bulk samples.

Fig. S4 Specific heat of CoSb$_3$, CoSb$_3$/G and the calculated specific heat of CoSb$_3$.

Fig. S5 Temperature dependence of the calculated Lorenz numbers of CoSb$_3$, CoSb$_3$/G and CoSb$_3$+G samples.
**Fig. S6** Carrier thermal conductivity of bulk CoSb$_3$, CoSb$_3$/G and CoSb$_3$+G samples.

**Fig. S7** Cross section SEM images of CoSb$_3$/G.