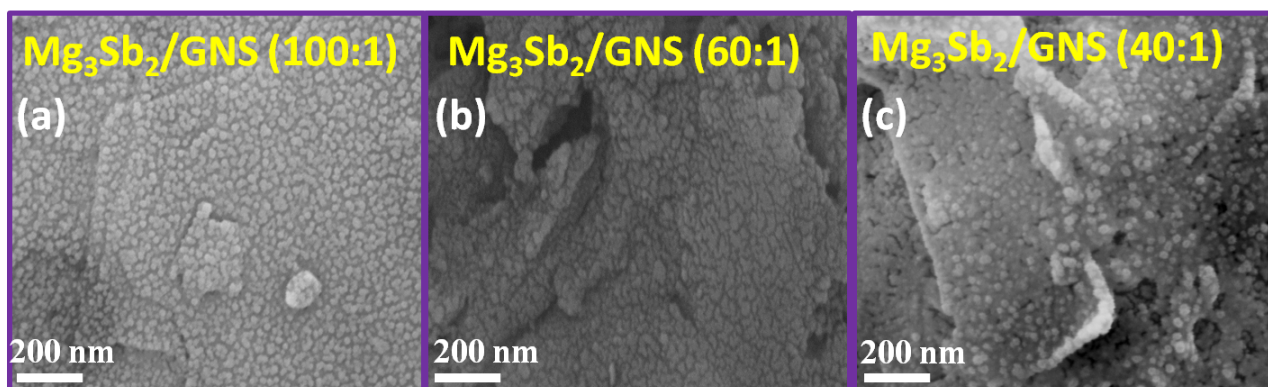


## Graphene Boost thermoelectric Performance of a Zintl phase Compound

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### Supplementary Information:



**Figure S1:** (a) The FE-SEM image of nanocomposite  $\text{Mg}_3\text{Sb}_2/\text{GNS}$  with mass ratio 100:1 (b) nanocomposite  $\text{Mg}_3\text{Sb}_2/\text{GNS}$  with mass ratio 60:1 (c) nanocomposite  $\text{Mg}_3\text{Sb}_2/\text{GNS}$  with mass ratio 40:1 which are clearly showing reduction in the size of  $\text{Mg}_3\text{Sb}_2$  particle on increasing the amount of graphene. All of the nanocomposite samples show smaller particle size of  $\text{Mg}_3\text{Sb}_2$  and decreases with increasing GNS concentration.