



Supporting Information

© Wiley-VCH 2008

69451 Weinheim, Germany

Large enhancements in the thermoelectric power factor of bulk PbTe at high temperature via synergistic co-nanostructuring

Joseph R. Sootsman, Huijun Kong, Ctirad Uher, Jonathan James D'Angelo, Chun-I Wu, Timothy P. Hogan, Thierry Caillat, Mercouri G. Kanatzidis

Figure s1. Electrical conductivity and α fits for nanostructured PbTe with Sb or Pb precipitates alone.

Figure s2. Comparison of the electrical resistivity (a), Seebeck coefficient (b), and power factor (c) of co-nanostructured PbTe and conventional PbTe for the carrier concentration $N \sim 3 \times 10^{19} \text{ cm}^{-3}$. (d) Comparison of ZT between co-nanostructured PbTe – Pb(0.5%) – Sb(2%) and conventional optimized PbTe as a function of temperature.

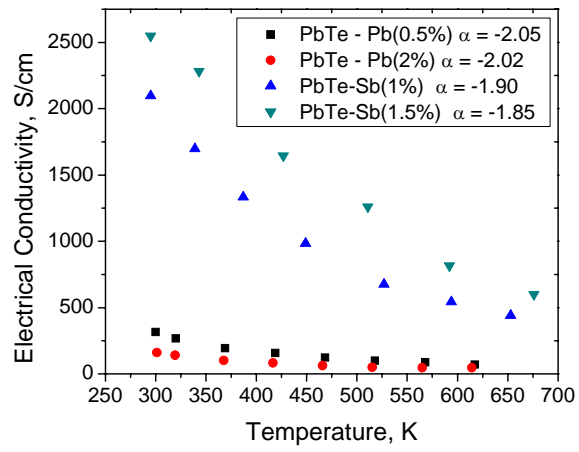


Figure s1

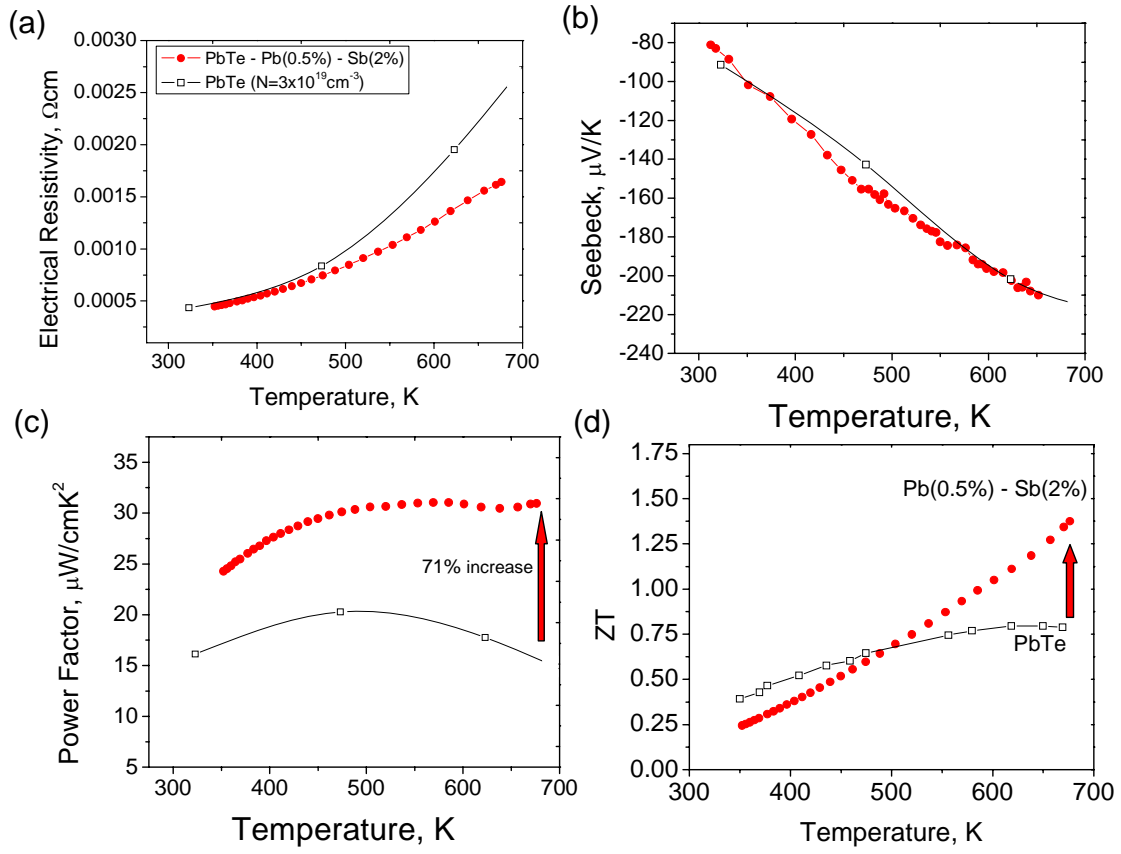


Figure s2.