





Supplementary Materials: Strain effects on the electronic and thermoelectric properties of n(PbTe)-m(Bi₂Te₃) system compounds

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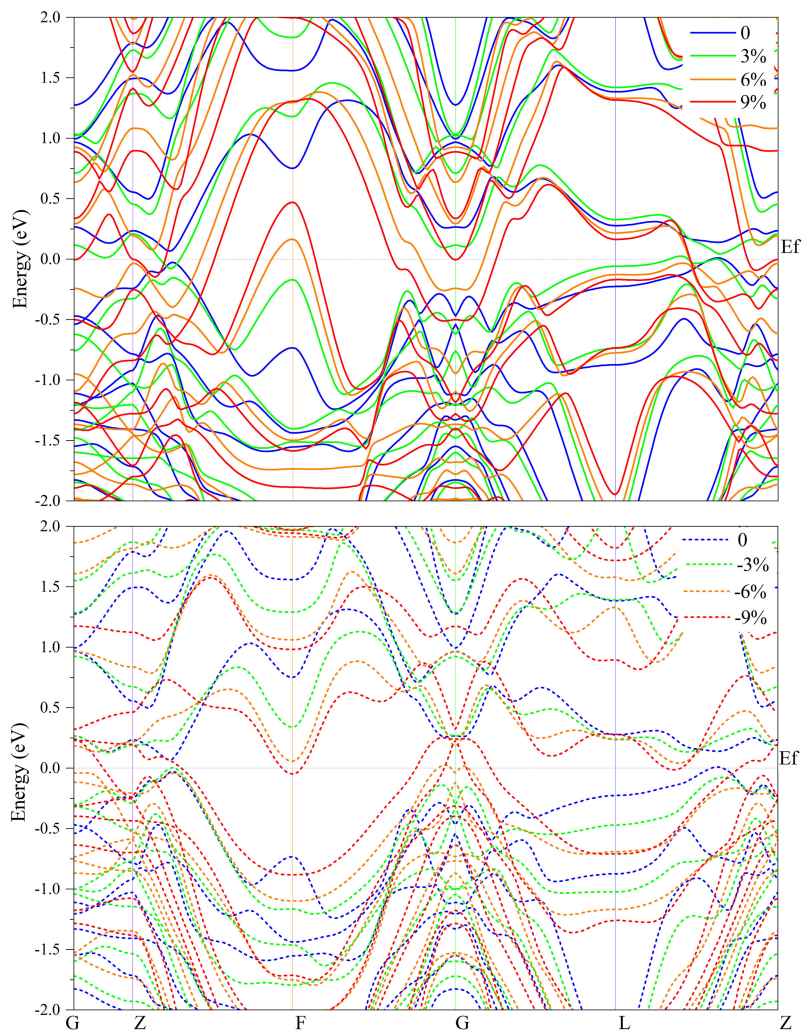


Figure S1. Calculated bands structures of Bi₂Te₃ with PBE functional under strains.

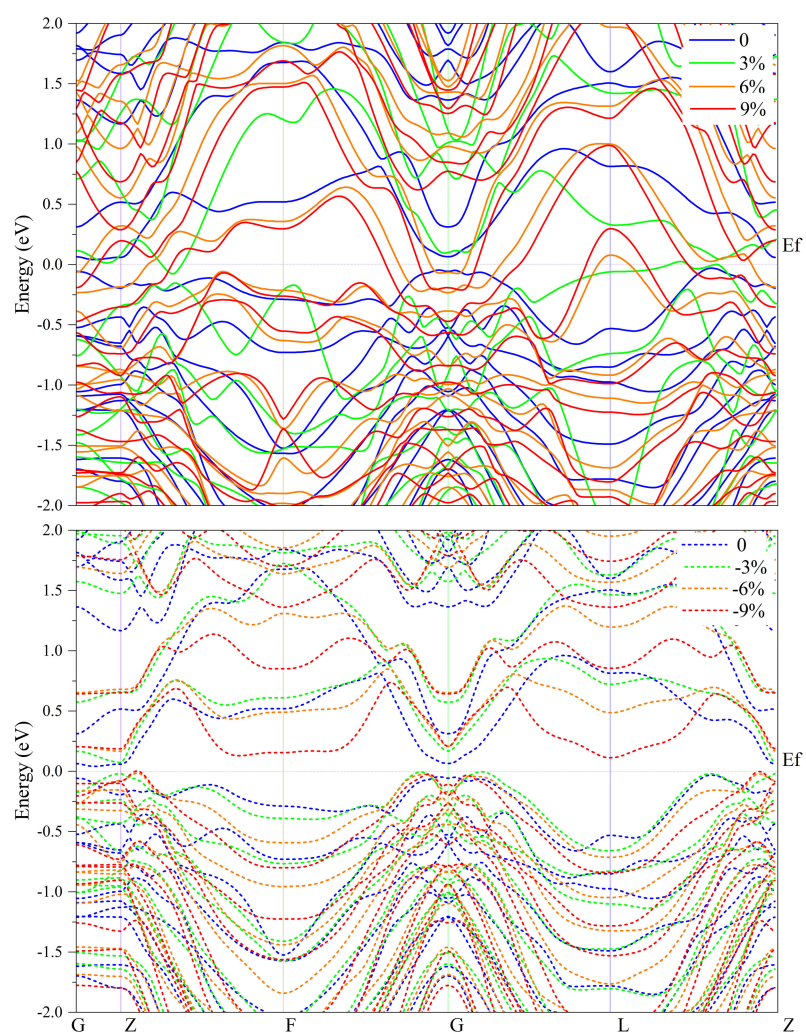


Figure S2. Calculated bands structures of PbBi_2Te_4 with PBE functional under strains.

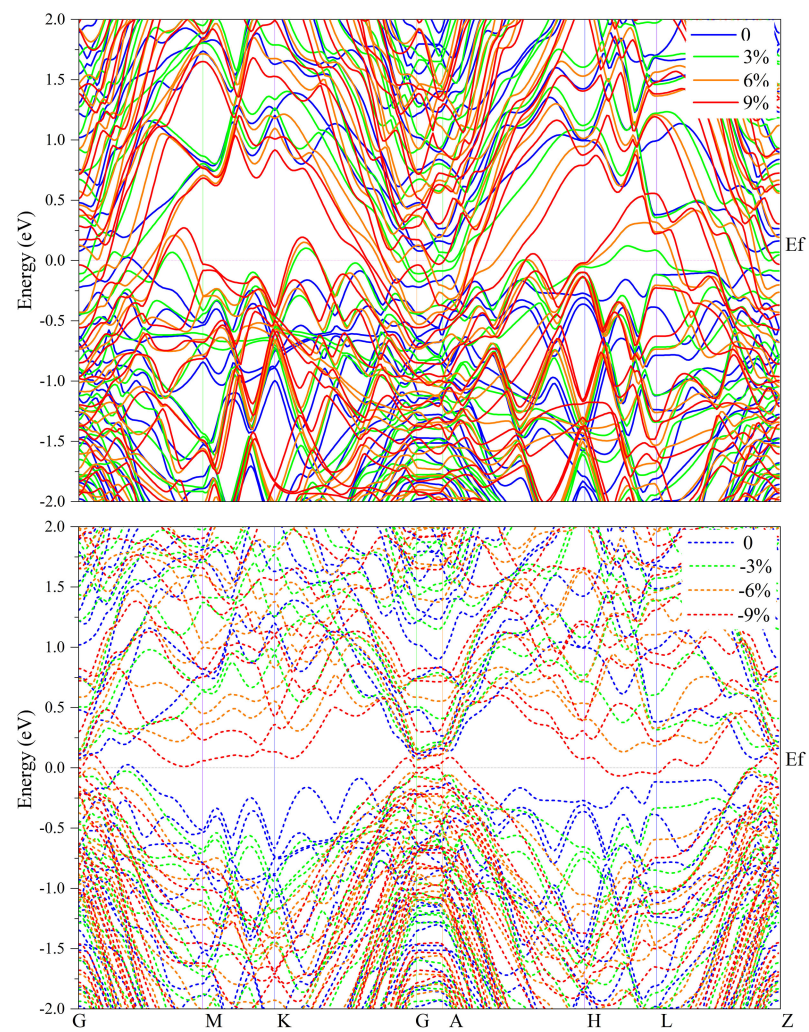


Figure S3. Calculated bands structures of PbBi_4Te_7 with PBE functional under strains.

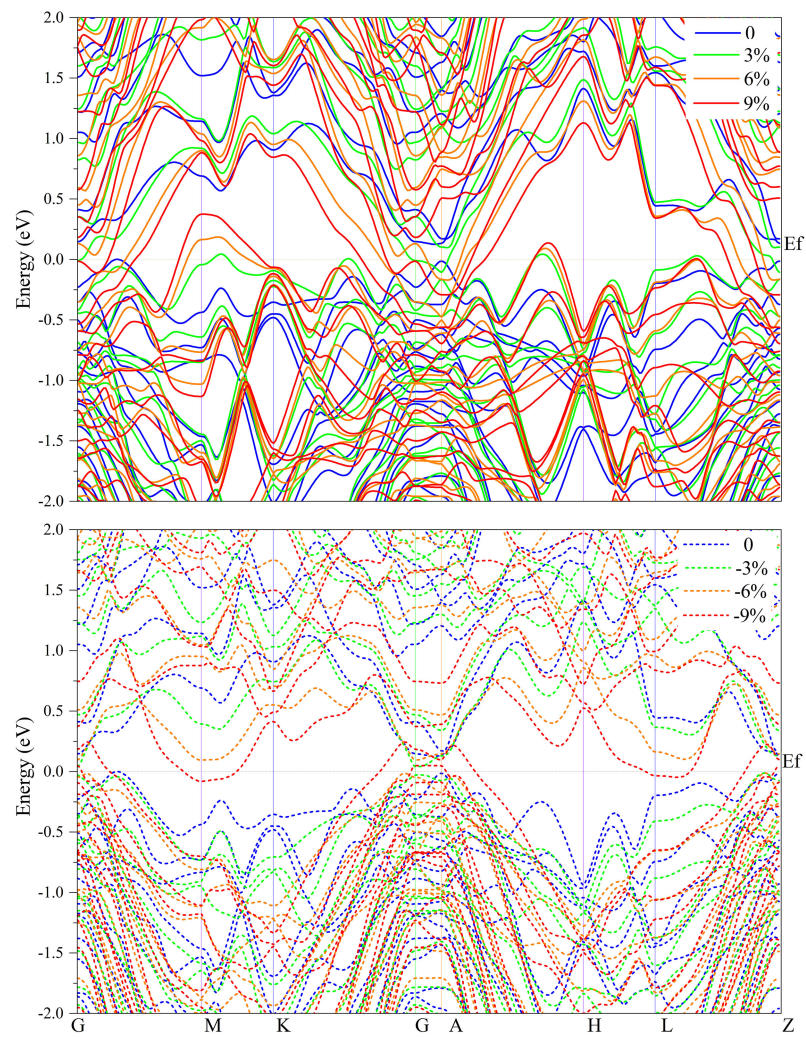


Figure S4. Calculated bands structures of $\text{Pb}_2\text{Bi}_2\text{Te}_5$ with PBE functional under strains.

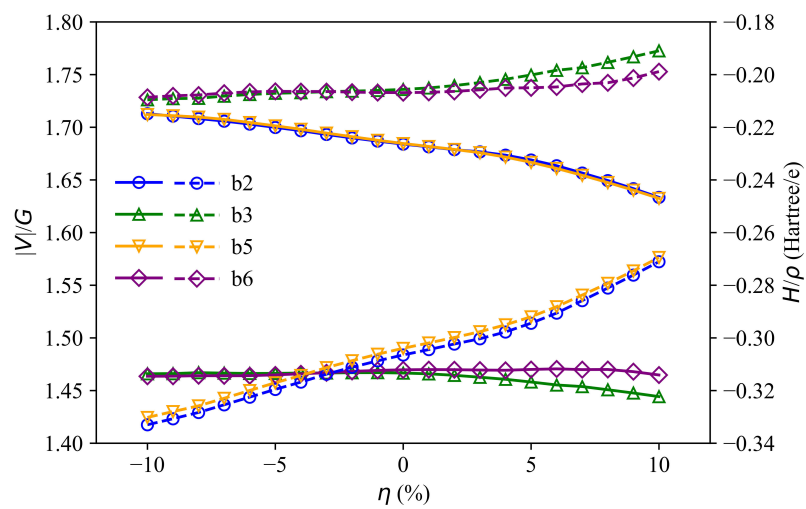


Figure S5. $|V|/G$ (solid lines) and ρ (dash lines) at various critical points (b2, b3, b4 and b5) for PbBi_4Te_7 w.r.t strain. The positions of b2, b3, b4 and b5 are defined in Fig. 8c.

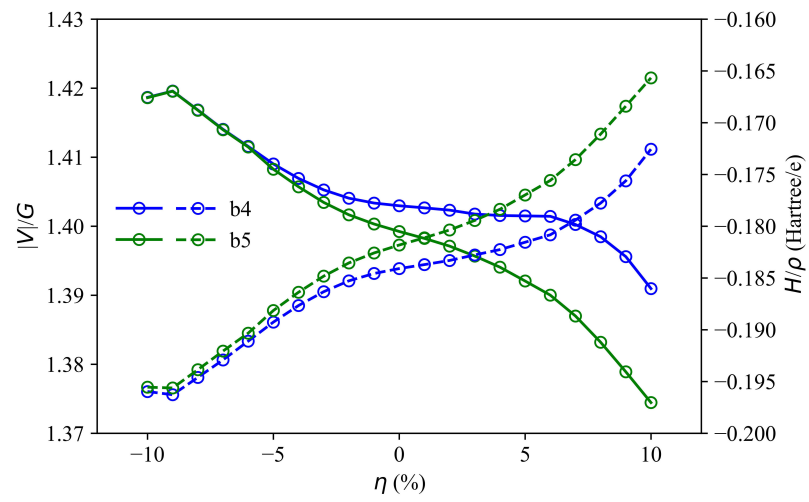


Figure S6. $|V|/G$ (solid lines) and ρ (dash lines) at various critical points (b4 and b5) for $\text{Pb}_2\text{Bi}_2\text{Te}_5$ w.r.t strain. The positions of b4 and b5 are defined in Fig. 8d.