

Supplementary Information

**Peierls Distortion, Large Seebeck Coefficient, and Dispersibility of Green Solution Phase Synthesis of Tellurium Nanoparticles**

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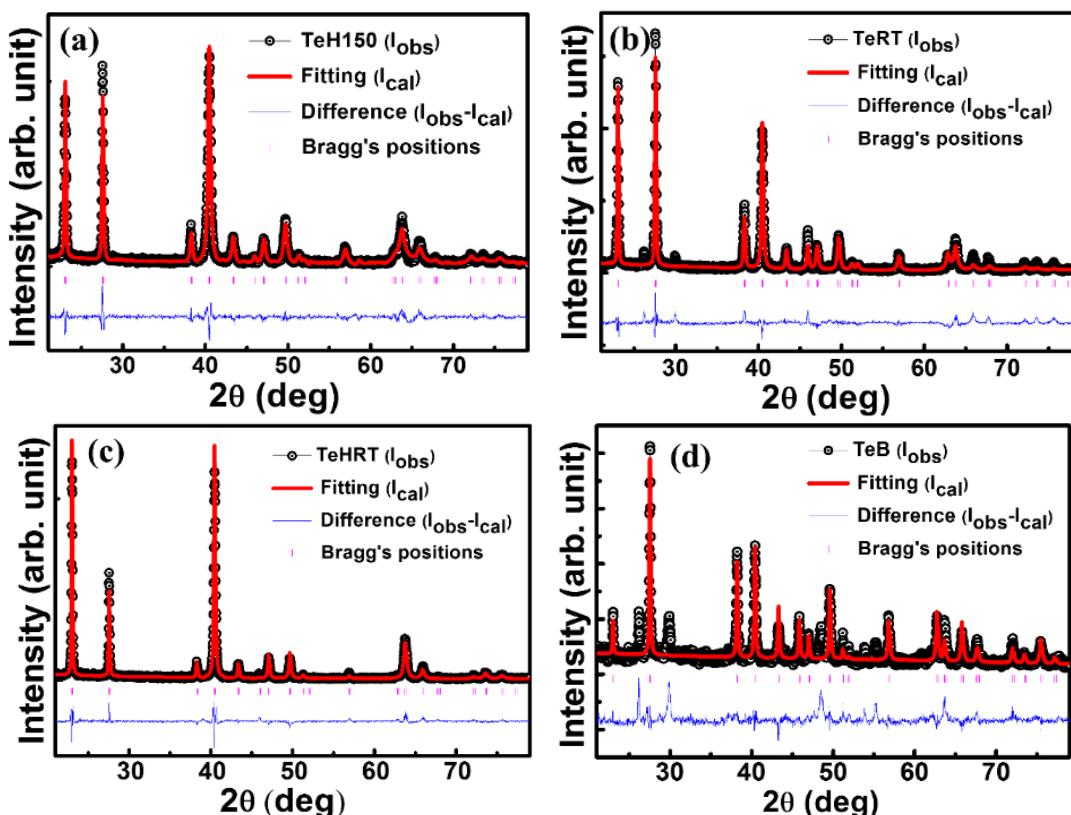


Fig. S1 Rietveld refinement of (a) TeH150, (b) TeRT, (c) TeHRT and (d) TeB.

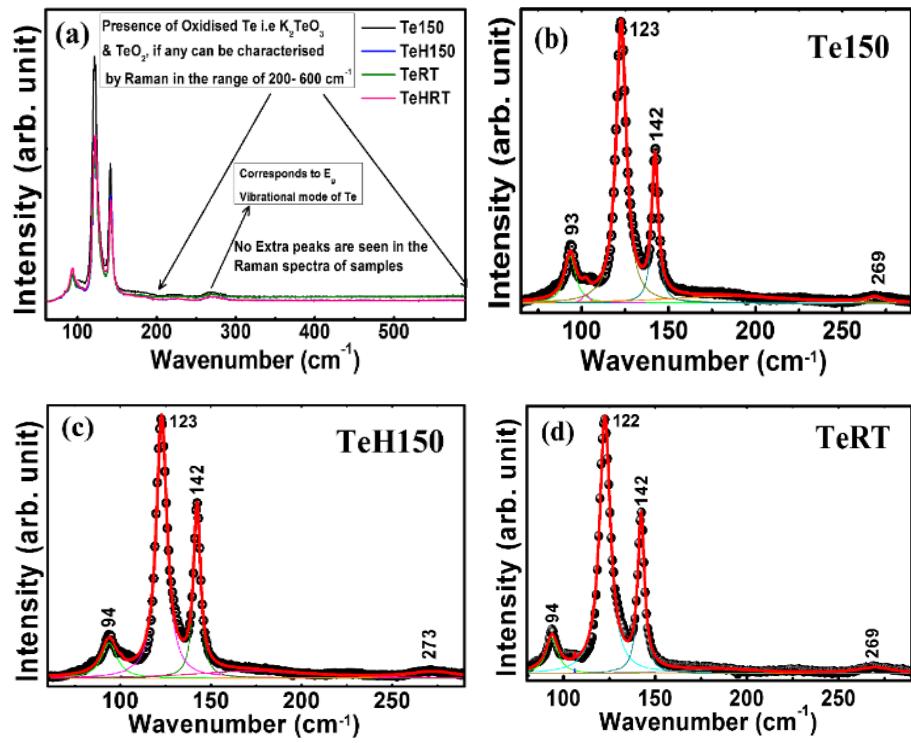


Fig. S2 (a) Raman spectra range 50-600  $\text{cm}^{-1}$  and Multipeak Lorentzian fitting of (b) Te150, (c) TeH150 and (d) TeRT.