

Strong Piezoelectricity in $(1-x)(\text{K}_{0.4}\text{Na}_{0.6})(\text{Nb}_{0.96}\text{Sb}_{0.04})\text{O}_3$ - $x\text{Bi}_{0.5}\text{K}_{0.5}\text{Zr}_{1-y}\text{Sn}_y\text{O}_3$
Lead-free Binary System: Identification and Role of Multiphase Coexistence

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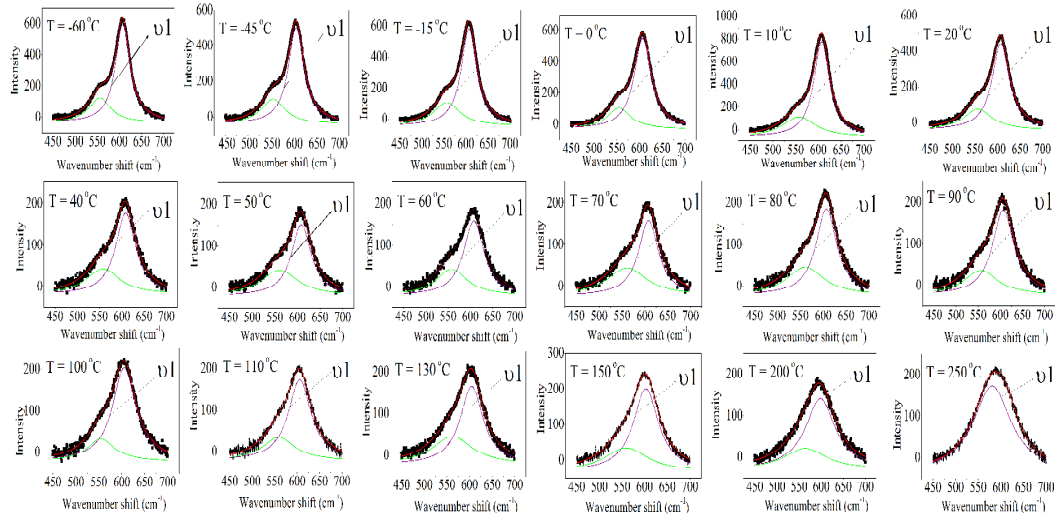


Figure S1: Magnified and fitted Raman spectra in the wavenumber ranges from 450 to 700 cm^{-1} of the ceramics with $x=0.04$, $y=0.1$.

Figure S1 shows the magnified and fitted Raman spectra in the wavenumber ranges from 450 to 700 cm^{-1} of the ceramics with $x=0.04$, $y=0.1$. One can see that the temperatures strongly affect the ν_1 mode which associated with BO_6 perovskite octahedron [1,2], indicating that the phase transitions of this work can result from the temperatures.

References

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- (2) Klein, N.; Hollenstein, E.; Damjanovic, D.; Trodahl, H. J.; Setter, N.; Kuball, M. A Study Of The Phase Diagram of $(\text{K,Na,Li})\text{NbO}_3$ Determined By Dielectric And Piezoelectric Measurements, and Raman Spectroscopy J. Appl. Phys. 2007, 102, 014112.