

Fig. S1. TEM micrograph of pure KNN powder and the inset shows the grain size distribution.

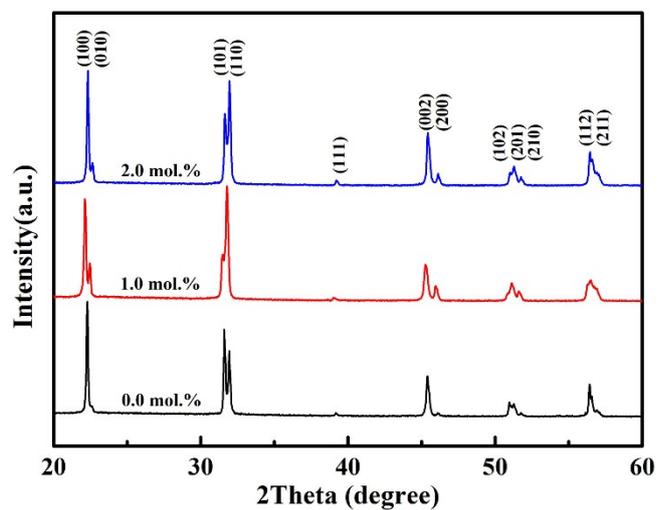


Fig. S2. XRD pattern of KNN ceramics with different Mn ions addition.

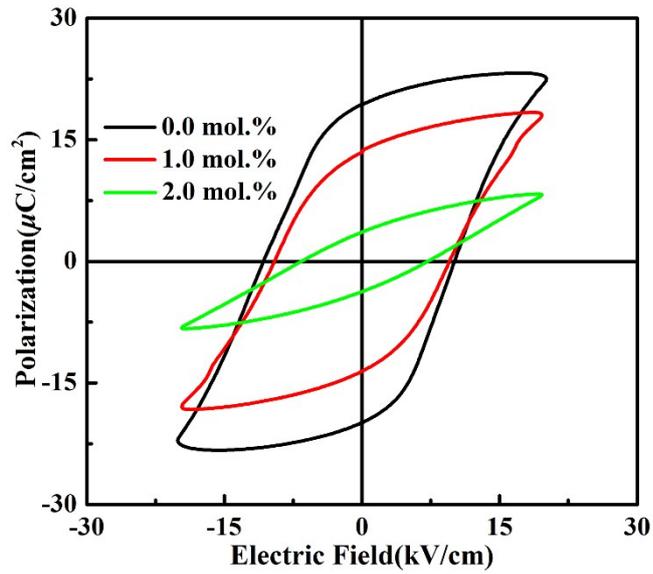


Fig. S3. P-E hysteresis loops for the KNN ceramics with different Mn ions addition.

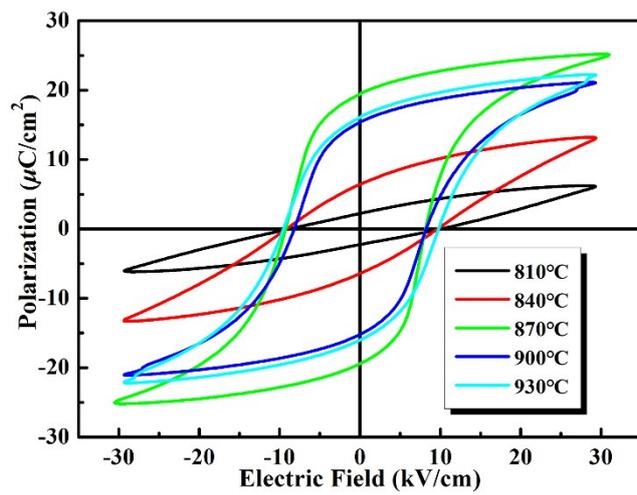


Fig. S4. P-E hysteresis loops for the 1.0 mol.% Mn-KNN ceramic sintered at different temperature.

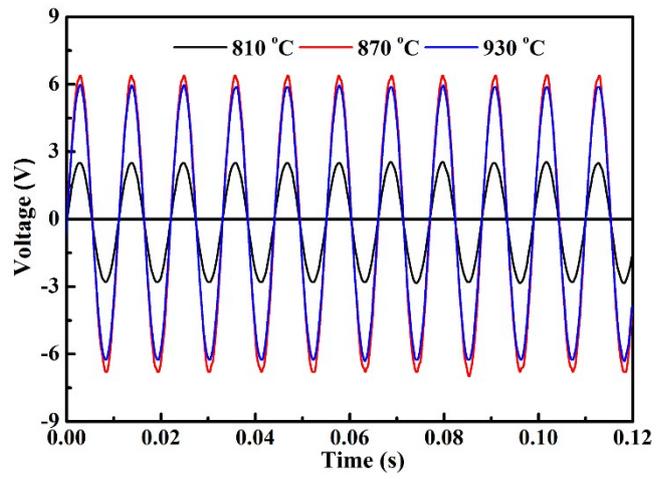


Fig. S5 The open circuit voltage with time of the 1.0 mol.% Mn-KNN energy harvesters at an acceleration of 10 m/s<sup>2</sup>.