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Figure S1: Room temperature (a) X-ray diffraction pattern and (b) Raman spectra of multilayered thin films L3, L5, and L9 grown on LSCO coated (001) MgO substrate



Figure S2: Cross-sectional TEM image of the PZT/CFO (a) three-layers L3, (b) five-layers L5, and (c) nine-layers L9, multilayered nanostructures. (d) STEM line scan of L5 multilayered structure.



(a)





Figure S3: Fatigue data for (a) three-layered L3, (b) five-layered L5, and (c) nine-layered L9 nanostructures.