

Polar Order Evolutions near the Rhombohedral to Pseudocubic and Tetragonal to Pseudocubic Phase Boundaries of the BiFeO₃-BaTiO₃ System

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The results of X-ray diffraction (XRD) experiment

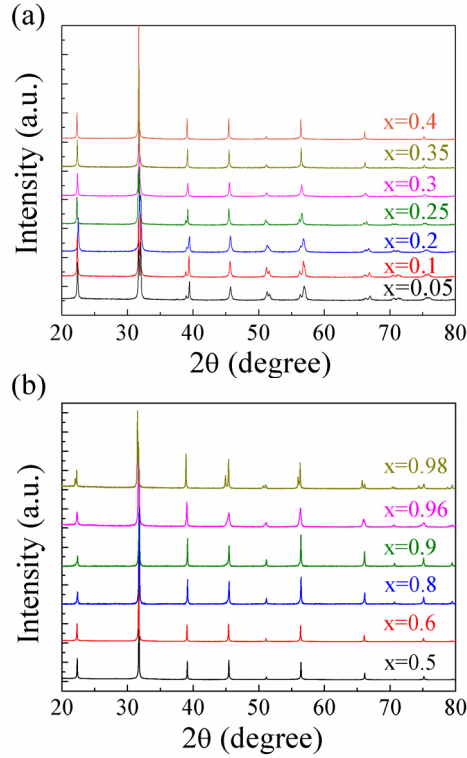


Figure S1. XRD patterns of (1-x)BF-xBT solid solution system with compositions of (a) $x = 0.05$ –0.4 and (b) 0.5–0.98. All the compositions show the single perovskite structure, without the formation of secondary phase.

The XRD data for the compositions before and after poling

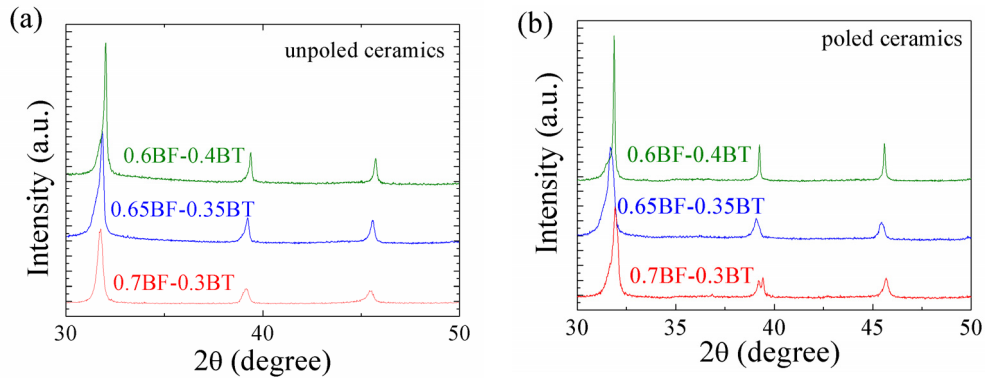


Figure S2. XRD patterns of (1-x)BF-xBT ($x = 0.3, 0.35$ and 0.4) ceramics (a) before poling and (b) after poling. The splits of {111}_c reflection are clear for 0.7BF-0.3BT ceramic after poling.