

In situ Synchrotron X-ray Diffraction for Actuation in Sodium Bismuth Titanate Relaxor Ferroelectrics

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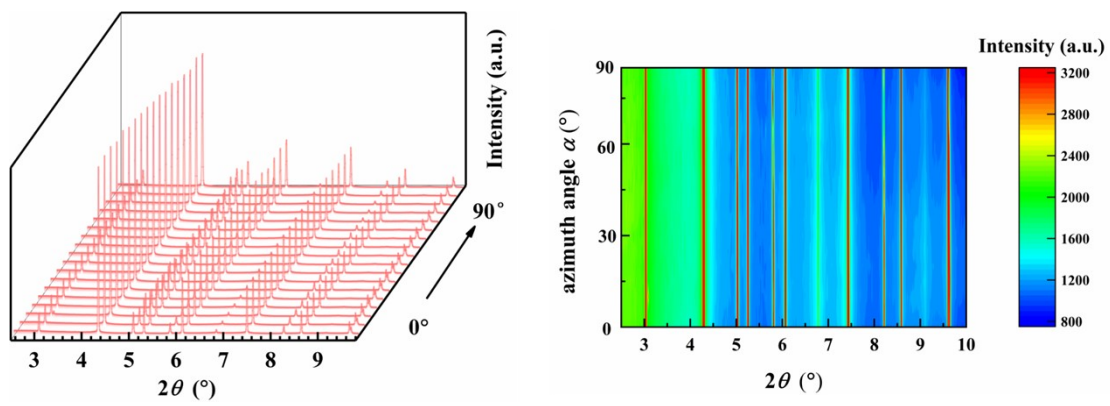


Fig. S1. *In situ* synchrotron X-ray diffraction patterns and contour plots of NBBT-6SBTZ ceramic tested at different azimuthal angles.

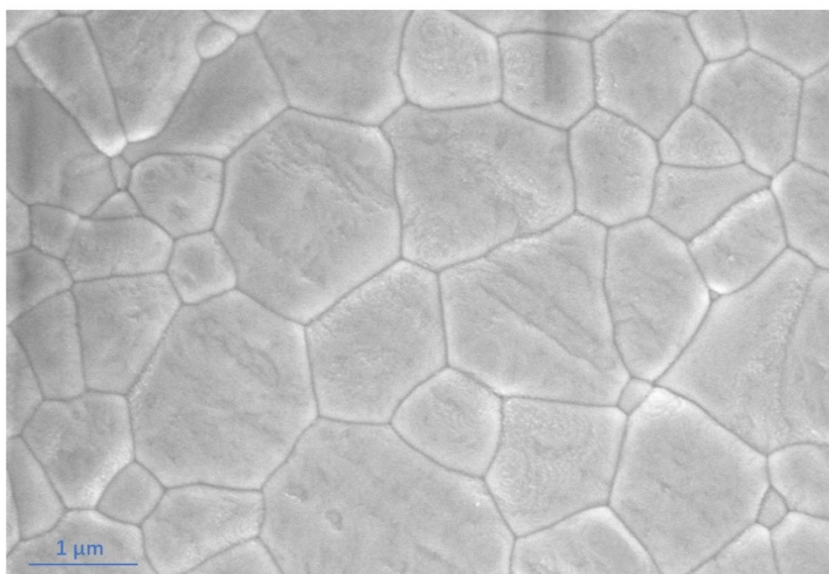


Fig. S2. The surface morphology of the for NBBT-6SBTZ ceramic after thermal etching.

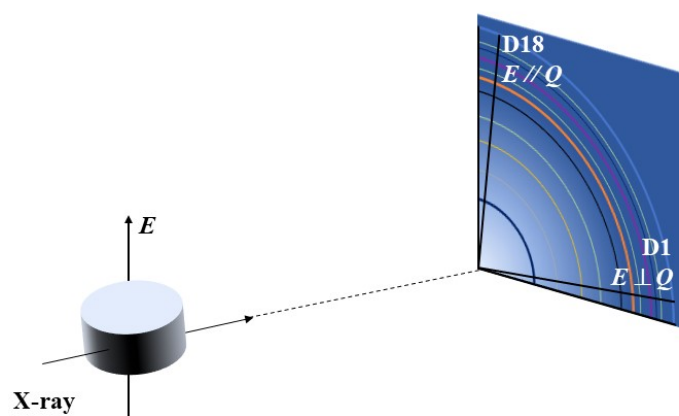


Fig. S3. Experimental set-up for high-energy X-ray diffraction: The X-ray beam penetrates through the sample subjected to 65 kV/cm electrical loading. The Debye-Scherrer rings with the azimuthal sectors marked for the first quadrant.