Supporting Information

Preparation and characterization of high Curie-temperature piezoelectric ceramics in a new Bi-based perovskite of (1-*x*)PbTiO₃-*x*Bi(Zn_{1/2}Hf_{1/2})O₃

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Figure S1. Rietveld full profile refinement of SXRD patterns of tetragonal 0.9PT-0.1BZH (*P4mm*) at room temperature. Observed (red, +), calculated (blue line), and their difference profiles (bottom line) are shown. The Bragg reflection positions are indicated by the green ticks.



Figure S2. Rietveld full profile refinement of SXRD patterns of tetragonal 0.85PT-0.15BZH (*P4mm*) at room temperature. Observed (red, +), calculated (blue line), and their difference profiles (bottom line) are shown. The Bragg reflection positions are indicated by the green ticks.



Figure S3. Rietveld full profile refinement of SXRD patterns of tetragonal 0.8PT-0.2BZH (*P4mm*) at room temperature. Observed (red, +), calculated (blue line), and their difference profiles (bottom line) are shown. The Bragg reflection positions are indicated by the green ticks.



Figure S4. Rietveld full profile refinement of SXRD patterns of tetragonal 0.75PT-0.25BZH (*P4mm*) at room temperature. Observed (red, +), calculated (blue line), and their difference profiles (bottom line) are shown. The Bragg reflection positions are indicated by the green ticks.