Supporting Information

Annealing-Dependent Morphotropic Phase Boundary in the $BiMg_{0.5}Ti_{0.5}O_3$–$BiZn_{0.5}Ti_{0.5}O_3$ Perovskite System

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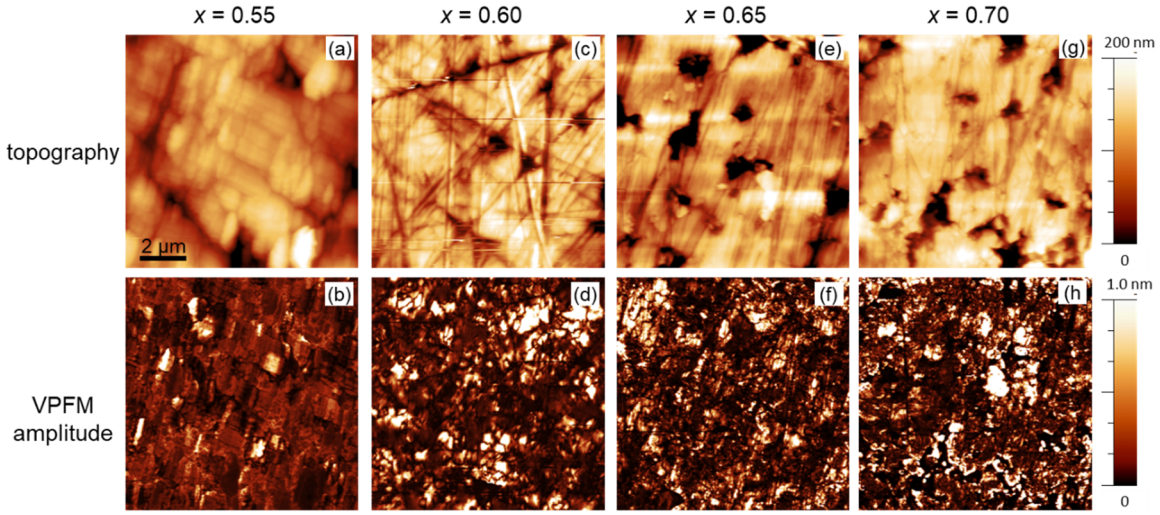


Figure S1. Topography and vertical PFM amplitude images of as-synthesized (1-*x*)$BiMg_{0.5}Ti_{0.5}O_3$-*x*$BiZn_{0.5}Ti_{0.5}O_3$ ceramics: *x* = 0.55 (a, b), 0.60 (c, d), 0.65 (e, f), 0.70 (g, h).

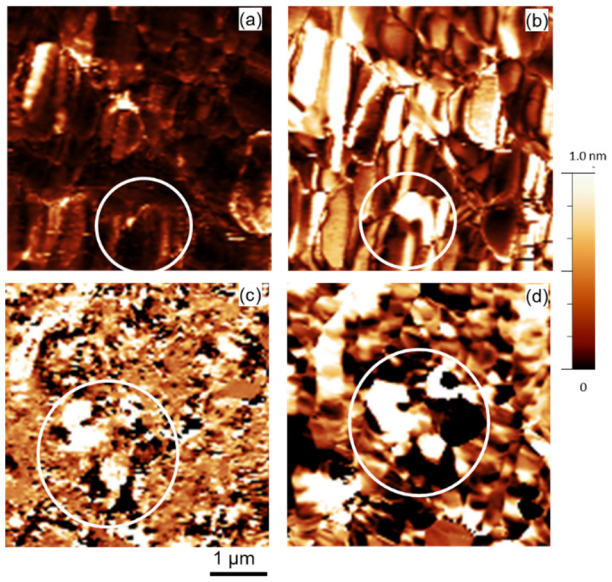


Figure S2. PFM amplitude images of as-synthesized 0.45$BiMg_{0.5}Ti_{0.5}O_3$-0.55$BiZn_{0.5}Ti_{0.5}O_3$ (a, b) and 0.35$BiMg_{0.5}Ti_{0.5}O_3$-0.65$BiZn_{0.5}Ti_{0.5}O_3$ (c, d) ceramics before (a, c) and after (b, d) annealing. White circles mark the same locations in the as-prepared and annealed ceramics.