

Supporting Information

Unravelling the nanoscale mechanism of polarization reversal in a $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$ -based ferroelectric capacitor by vector piezoresponse force microscopy

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S1. z-PFM for the rotated sample

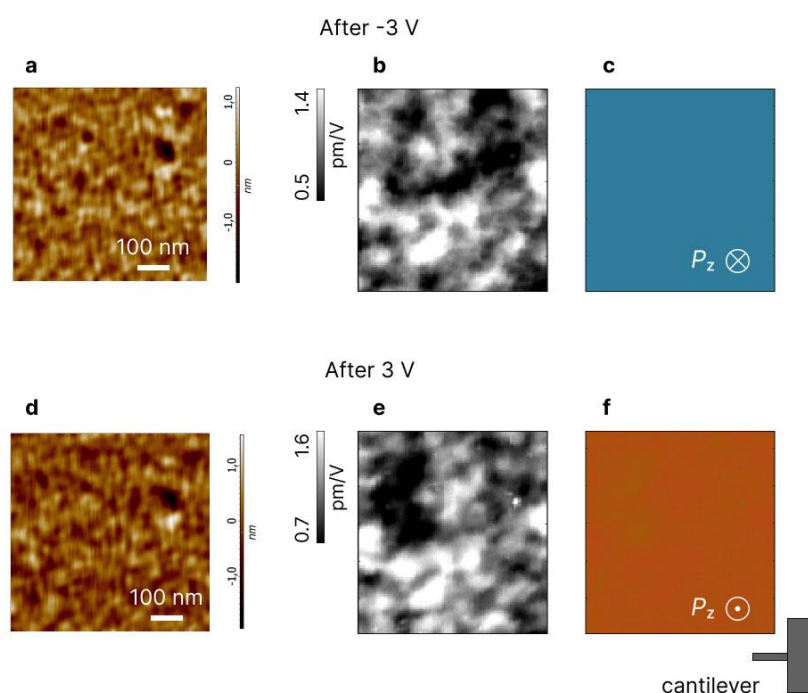


Figure S1. z-PFM for the rotated HZO sample after polarization switching to the downward and upward states. (a) and (d) Topography of the top TiN electrode in the studied area. (b) and (e) PFM amplitude maps. (c) and (f) PFM phase maps.