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Supplementary Information

to

Chemical-bond control of epitaxial strain in perovskite sodium niobate

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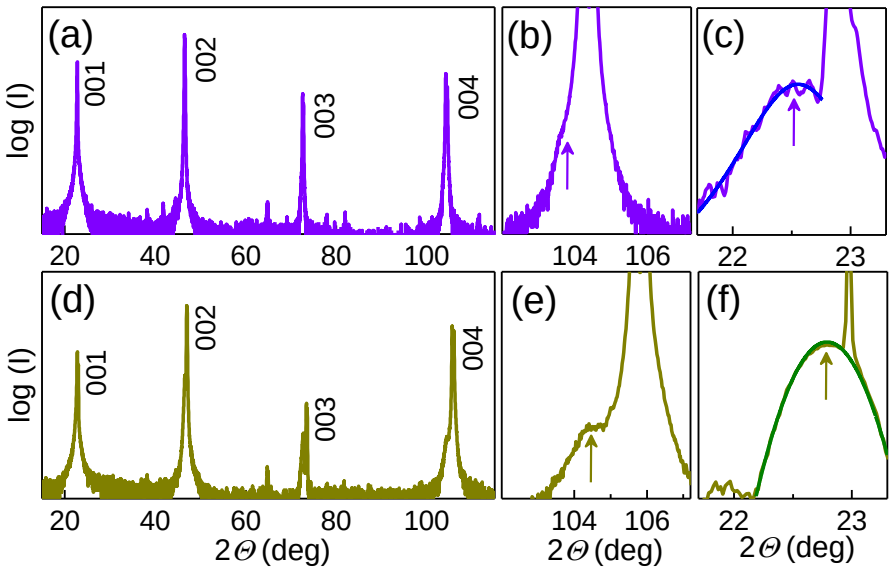

Fig. S1. X-ray diffraction Θ-2Θ scans in the (a-b, d-e) 150-nm-thick and (c,f) 10-nm-thick NNO films on (a-c) STO and (d-f) LSAT. Perovskite diffractions are indexed in (a,d). The details of (004) and (001) diffractions are shown in the panels (b,e) and (c,f), correspondingly. Arrows point to positions of the peaks from the films. Thick lines in (c,f) are the fits.

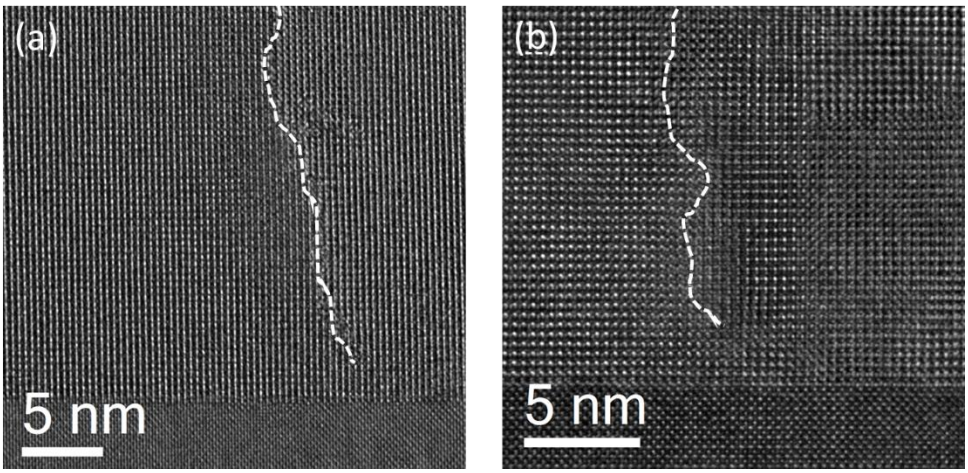

Fig. S2. HRTEM images of the NNO films on (a) STO and (b) LSAT. Stacking faults are seen at a distance of approximately 4 nm from the film-substrate interface.