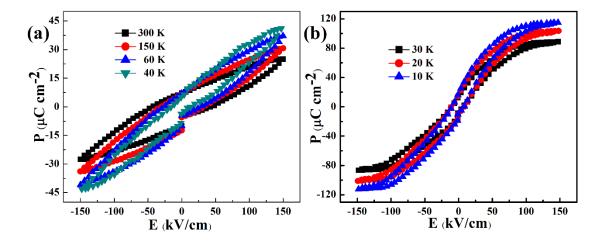
## The Frustration-induced Ferroelectricity of a Manganite Tricolor Superlattice with Artificially Broken Symmetry

Huanyu Pei<sup>1</sup>, Shujin Guo<sup>1</sup>, Lixia Ren<sup>1</sup>, Changle Chen<sup>1\*</sup>, Bingcheng Luo<sup>1</sup>, Xianglei Dong<sup>1</sup>, Kexin Jin<sup>1</sup>, Ren Ren<sup>2</sup> and Hafiz Muhammad Zeeshan<sup>1</sup>

## **Supplementary Figure**



**Supplementary Figure S1** The *P-E* loops above 40 K (a) and below 30K (b).

<sup>&</sup>lt;sup>1</sup>Shaanxi Key Laboratory of Condensed Matter Structures and Properties, Northwestern Polytechnical University, Xi'an, 710072, China

<sup>&</sup>lt;sup>2</sup>Department of Physics, Xi'an Jiaotong University, Xi'an, 710072, China

<sup>\*</sup> chenchl@nwpu.edu.cn