

Supplementary Materials: Influence of the Growth Ambience on the Localized Phase Separation and Electrical Conductivity in SrRuO₃ Oxide Films

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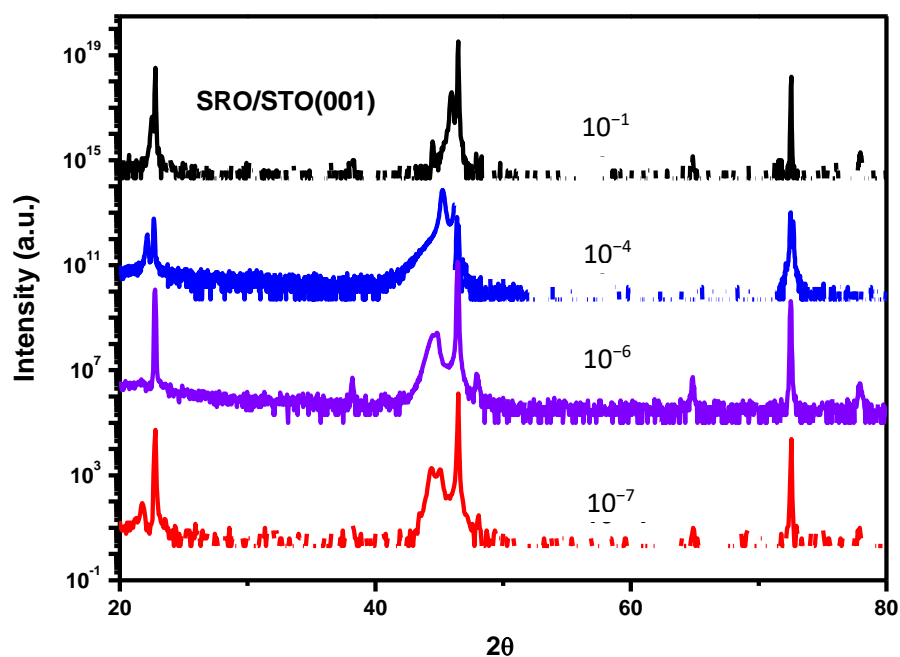


Figure S1. The growth ambience dependent XRD patterns around surface normal of SRO thin films on STO (001) deposited with the oxygen pressure of 10^{-1} , 10^{-4} , 10^{-6} , and 10^{-7} Torr, respectively.

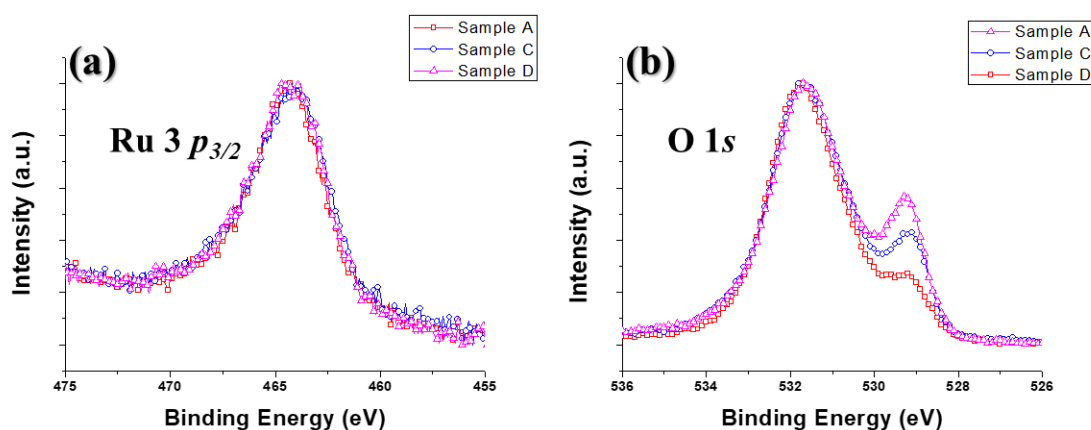


Figure S2. (a) and (b) are X-ray photoemission spectra of Ru 3p core-level and O 1s for SRO thin film samples, respectively.

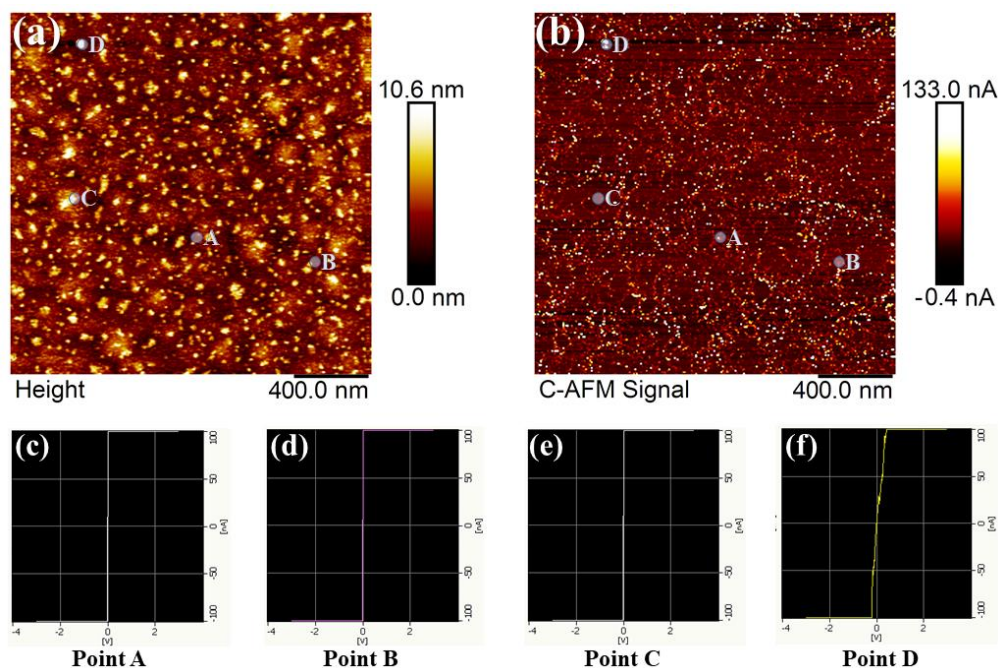


Figure S3. (a) and (b) The surface topography and the current mapping images for samples A, respectively. (c), (d), (e) and (f) The corresponding local I-V curves of region A, B, C, and D.



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