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Title: Resistive switching effect of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{Nb:SrTiO}_3$ heterostructure

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Resistive switching effect of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{Nb:SrTiO}_3$ heterostructure

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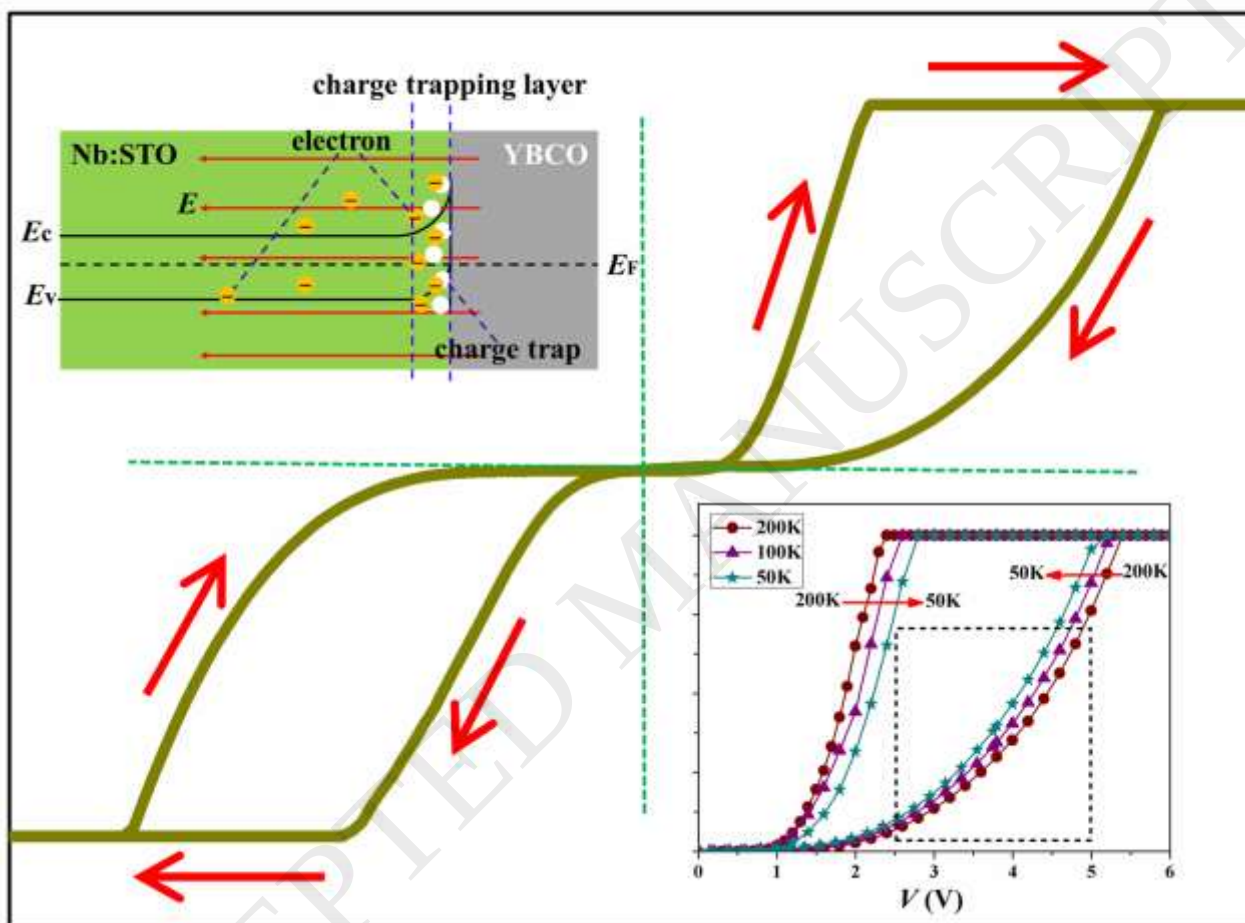
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Graphical Abstract



Highlights

- The resistive switching (RS) effect of Nb:SrTiO_3 (Nb:STO) with different electrode structures (YBCO, LNO, and In) was examined at room temperature and low temperature.
- Research showed that the RS effect was caused by the electrons capture and escape of the charge trap at the interface between electrode and Nb:STO, and the Schottky barrier was a prerequisite for rendering RS effect.

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