

ELECTRIC-FIELD EFFECT IN MANGANITE FILMS ON FERROELECTRIC SUBSTRATES

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S u m m a r y

The paper concentrates on the investigation of electric and magnetoresistive properties of perovskite heterostructures “substituted lanthanum manganite – doped barium titanate”. It is shown that the character of the temperature dependences of the electric resistance and magnetoresistance is strongly dependent on the structure and chemical composition of substrates. The possibility to tune the resistance and magnetoresistance of the films by means of a change of the voltage applied to a substrate is demonstrated experimentally.