MELTING OF THE CHARGE ORDERING STATE BY RUTHENIUM DOPING IN CA0.6PR0.4MN1-YRUY¬O3 (Y = 0, 0.03, 0.05, 0.07) PEROVSKITES

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TÓM TẮT:

Single-phase perovskite compouds Ca0.6Pr0.4Mn1-yRuy-O3 (y = 0, 0.03, 0.05, 0.07) we prepared by ceramic-technology method. Thermalmagnetic plots, temperature dependence of resistivities, ac-susceptibilities of the produced sample were determined. The non-Ruthenium doping (y = 0) sample presents charge ordering phenomenon at TCO = 291K. The experiment results show that the ruthenium doping destroys the charge ordering state, enhances ferromagnetism tendency and conductivity.