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Anisotropic magnetoresistance and Magnetic properties of epilayers-perovskite LBMTO

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An epitaxial thin film of (LBMTO) was synthesized using pulsed laser deposition technique (PLD) with a desirable thickness of 95 nm. The film grown on SrTiO₃ (0 0 1) substrates exhibited a paramagnetic-to-ferromagnetic second order phase transition at 291 K. The as-grown film displays a giant magnetoresistance (GMR) up to 150% at room temperature under 5T applied magnetic field.

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