Magnetic properties of hard FePt prepared by cold deformation

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Abstract: A study was performed on magnetic properties of hard FePt prepared by cold deformation. Hysteresis cycles, measured at 300 K, with the field applied in the foil plane (PP) and perpendicular to the PP were presented. The higher magnetic remanence in the PP measurement indicated that the foil has partial (001) texture.

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- Givord, D., Laboratoire Louis Néel, CNRS, 25 rue des Martyrs, 38042 Grenoble, France References:
- Hai, N.H., Dempsey, N.M., Veron, M., Verdier, M., Givord, D., (2002) J. Magn. Magn. Mater, , accepted
- Callen, H.B., Callen, E., (1966) J. Phys. Chem. Solids., 27, p. 1271
- Podgorny, M., (1991) Phys. Rev. B, 43, p. 11300
- Givord, D., Rossignol, M.F., (1996) Rare-earth Iron Permanent Magnets, p. 218., ed. J.M.D. Coey Download: 0821.pdf