

センターからのお知らせ

2011年度共同利用成果

< SQUID >

- D. X. Li, T. Yamamura, K. Yubuta, S. Nimori, Y. Haga, T. Shikama, “Evidence for spin-glass state in nonmagnetic atom disorder compound Pr_2AgIn_3 ”, Journal of Physics: Conference Series, 320 (2011) 012041 1-6
- T. Shimatsu, Y. Inaba, H. Kataoka, J. Sayama, H. Aoi, S. Okamoto, and O. Kitakami, “Dot arrays of L1_0 -type FePt ordered alloy perpendicular films fabricated using low-temperature sputter film deposition”, J. Appl. Phys. 109 (2011) 07B726.
- J. Sayama, T. Shimatsu, H. Nemoto, S. Okamoto, O. Kitakami, H. Aoi, “Temperature dependence of the magnetic properties of L1_1 -type Co–Ni–Pt ordered alloy films for thermally assisted recording media”, J. Appl. Phys. 110 (2011) 013918.
- S. Fujieda, A. Fujita, K. Fukamichi, and S. Suzuki, “Influence of Homogenization of Microstructural Composition on Hydrogen Absorption into $\text{La}(\text{Fe}_x\text{Si}_{1-x})_{13}$ Magnetic Refrigerants”, IEEE Trans. Magn. 47 (2011) 2459-2462.
- H. Sagayama, S. Ohtani, M. Saito, N. Abe, K. Taniguchi, and T. Arima, “Magnetic-field effects on Jahn-Teller distortion in ferroelastic magnetic insulator $\text{Fe}_{1-x}\text{Mn}_x\text{Cr}_2\text{O}_4$ ”, Appl. Phys. Lett. 99 (2011) 082506.
- Y. Nii, N. Abe, K. Taniguchi, and T. Arima, “Magnetic shape memory effect in orbital-spin-coupled system MnV_2O_4 ”, Appl. Phys. Lett. 100 (2012) 051905.
- R.Y. Umetsu, A. Okubo, A. Fujita, T. Kanomata, K. Ishida, R. Kainuma, “Spin-Wave Stiffness Constants of Half-Metallic Ferromagnets Co_2YZ ($\text{Y} = \text{Cr}, \text{Mn}$, and Fe , $\text{Z} = \text{Ga}, \text{Al}$, and Si) Heusler Alloys”, IEEE Trans. Magn. 47 (2011) 2451-2454.
- R.Y. Umetsu, A. Fujita, W. Ito, T. Kanomata, R. Kainuma, “Determination of the magnetic ground state in the martensite phase of Ni-Mn-Z ($\text{Z} = \text{In}, \text{Sn}$ and Sb) off-stoichiometric Heusler alloys by nonlinear AC susceptibility”, J. Phys.: Condens. Matter 23 (2011) 326001.

- R.Y. Umetsu, H. Ishikawa, K. Kobayashi, A. Fujita, K. Ishida, R. Kainuma, “Effects of the Antiferromagnetic Anti-Phase Domain Boundary on the Magnetization Processes in Ni₂-Mn(Ga_{0.5}Al_{0.5}) Heusler Alloy”, Scripta Materialia 65 (2011) 41-44.
- A. Okubo, X. Xu, R.Y. Umetsu, T. Kanomata, K. Ishida, R. Kainuma, “Magnetic Properties of Co_{50-x}Ni_xMn₂₅Al₂₅ Alloys with B2 Structure”, J. Appl. Phys. 109 (2011) 07B114.
- W. Ito, X. Xu, R.Y. Umetsu, T. Kanomata, K. Ishida, R. Kainuma, “Concentration Dependence of Magnetic Moment in Ni₅₀Mn_{50-x}In_{x/2}Sb_{x/2} Alloys with Heusler Structure”, J. Appl. Phys. 109 (2011) 07A926.
- T. Omori, K. Watanabe, X. Xu, R.Y. Umetsu, R. Kainuma, K. Ishida, “Magnetocrystalline Anisotropy in Fe-Mn-Ga Magnetic Shape Memory Alloy” Scripta Materialia 64 (2011) 669-672.
- R.Y. Umetsu, K. Ito, W. Ito, K. Koyama, T. Kanomata, K. Ishida, R. Kainuma, “Kinetic Arrest Behavior in Martensitic Transformation of NiCoMnSn Metamagnetic Shape Memory Alloy”, J. Alloys Comp. 509 (2011) 1389-1393.
- R.Y. Umetsu, A. Sheikh, W.Ito, B. Ouladdiaf, K.R.A.Ziebeck, T. Kanomata, R. Kainuma, “The Effect of Co Substitution on the Magnetic Properties of the Heusler Alloy Ni₅₀Mn₃₃Sn₁₇”, Appl. Phys. Lett. 98 (2011) 042507.
- S. Nakamura, T. Iwashita, T. Nojima, A. Yoshihara, S.Ohnuma, H. Fujimori, “Transport and Magnetic Properties of Ferromagnetic Co-Al-O and Fe-Al-O Granular Films”, J. Phys.: Conf. Ser. 266 (2011) 012019.
- G. Mu, J. Tang, Y. Tanabe, J. Xu, S. Heguri, and K. Tanigaki, “Evidence for line nodes in the energy gap of the overdoped Ba(Fe_{1-x}Co_x)₂As₂ from low-temperature specific heat measurements”, Phys. Rev. B 84 (2011) 054505.
- J. Tang, J. T. Xu, S. Heguri, K. Akai and K. Tanigaki, “Valence Band Studies of p- and n-Type Ba₈Ga₁₆Ge₃₀ Using High-Resolution Photoelectron Spectroscopy”, J. Elect. Materials 40 (2011) 769-772.

- Jingtao Xu, Jun Tang, Kazumi Sato, Yoichi Tanabe, Satoshi Heguri, Hitoshi Miyasaka, Masahiro Yamashita and Katsumi Tanigaki, “Heat Capacity Study on Anharmonicity in $Ae_3Ga_{16}Ge_{30}$ ($Ae = Sr$ and Ba)”, J. Elect. Materials 40 (2011) 879-883.
- M. Sutherland, R. P. Smith, N. Marcano, Y. Zou, S. E. Rowley, F. M. Grosche, N. Kimura, S. M. Hayden, S. Takashima, M. Nohara, H. Takagi, “Transport and thermodynamic evidence for a marginal Fermi-liquid state in $ZrZn_2$ ”, Phys. Rev. B 85 (2012) 035118.
- Y. Matsumoto, M. Sugi, K. Aoki, Y. Shimizu, N. Kimura, T. Komatsubara, H. Aoki, M. Kimata, T. Terashima, S. Uji, “Magnetic Phase Diagram and Fermi Surface Properties of $CeRu_2(Si_{1-x}Ge_x)_2$ ”, J. Phys. Soc. Jpn. 80 (2011) 074715.
- A. Ochiai, S. Matsuda, Y. Ikeda, Y. Shimizu, S. Toyoshima, H. Aoki, K. Katoh, “Field-induced partially disordered state in Yb_2Pt_2Pb ”, J. Phys. Soc. Jpn. 80 (2011) 123705.