

2009 年度業績 一中谷 亮一

学術論文・解説記事

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2. Yu Shiratsuchi, Toshihiro Nakatani, Shin-ichi Kawahara and Ryoichi Nakatani, Magnetic coupling at interface of ultrathin Co film and antiferromagnetic Cr₂O₃(0001) film, Journal of Applied Physics, 106, 033903-1—033903-7, 2009
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5. Yu Shiratsuchi, Toshihiro Nakatani, Shin-ichi Kawahara and Ryoichi Nakatani, Fabrication of Antiferromagnetic α -Cr₂O₃(0001) Thin Film and Influence on Magnetism of Ultrathin Co Film, Journal of Magnetics Society of Japan, 33, 467-472, 2009
6. Yu Shiratsuchi, Fumihiro Nishiura, Kenichi Tachibori, Akifumi Higashiura, Atsushi Nakagawa, Ryoichi Nakatani, Tomitake Tsukihara and Masahiko Yamamoto, Magnetic properties of PfV encapsulating of Ni ions, Journal of Magnetics Society of Japan, 33, 473-476, 2009
7. Ryoichi Nakatani, Hikaru Nomura and Yasushi Endo, Magnetic logic devices composed of permalloy dots, Journal of Physics: Conference Series, 165, 012030 - 1-012030-6, 2009
8. Hideki Etoh, Junichi Sato, Yoshiteru Murakami, Akira Takahashi and Ryoichi Nakatani, Magnetic properteis of Mn-Zn ferrite thin films fabricated by pulsed laser deposition, Journal of Physics: Conference Series, 165, 012031 - 1-012031-4, 2009
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10. Yoshiyuki Hirayama, I. Tamai, I. Takiura and Ryoichi Nakatani, Role of underlayer for segregated structure formation of CoCrPt-SiO₂ granular thin film, Journal of Physics: Conference Series, 165, 012033 - 1-012033-4, 2009
11. Yu Shiratsuchi, Toshihiro Nakatani, Ryoichi Nakatani and Masahiko Yamamoto, Superparamagnetism of ultrathin Co film on antiferromagnetic Cr₂O₃ layer, Journal of Physics: Conference Series, 165, 012034 - 1-012034-6, 2009

12. Hikaru Nomura, Tatsuro Nagayama, Daisuke Yokota and Ryoichi Nakatani, Development of a magnetic force microscopy for magnetically soft materials, Journal of Physics: Conference Series, 165, 012036 - 1-012036-4, 2009
13. Yasushi Endo, Isao Sasaki, Ryoichi Nakatani and Masahiko Yamamoto, Local probing of vortex core movement in a Ni-Fe disk using magnetic field sweeping-magnetic force microscopy, Japanese Journal od Applied Physics, 48, 66502-1-66502-5, 2009
14. 河原信一, 納富隼人, 白土 優, 中谷亮一, α -Cr₂O₃(0001)薄膜上に作製したCo超薄膜の磁気異方性に対するCrスピンの影響, 信学技報 (ICICE Technical Report), 109, 11-16, 2010
15. Yu Shiratsuchi, Shin-ichi Kawahara, Hayato Noutomi, and Ryoichi Nakatani, Interface magnetism of Au/Co/Cr₂O₃(0001) epitaxial film with perpendicular magnetic anisotropy and perpendicular exchange bias, IEEE Transaction on Magnetics, 46, in press, 2010

受賞

1. 中谷亮一, 全国発明表彰, 2009年7月29日
2. 西浦文浩 (M2), 第4回3大学(東京理科大学・筑波大学・大阪大学)連携学生研究会 審査員奨励賞, 2009年8月28日

シンポジウム開催状況

1. Magnetics and Optics Research International Symposium for New Storage Technology 2009, 主な招待講演者: K. Sato (Japan Science and Technology Agency), B.Terris (Hitachi GST), Th. Rasing(Radboud Univ. Nijmegen), 参加人数 110(外国人参加者数 30)
2. 第33回日本磁気学会学術講演会, 参加人数 670(外国人参加者数 100)