

2011 年度業績 —保田 英洋

学術論文・解説記事

1. M. Imamura, J. Nakamura, S. Fujimasa, H. Yasuda, H. Kobayashi, and Y. Negishi, Photoluminescence dynamics of organic molecule-passivated Si nanoclusters, *European Physical Journal D*, 63, 289-292, 2011
2. S. Fujimasa, M. Imamura and H, Yasuda, Excited electron dynamics of bismuth film grown on Si(111) surface by interferometric time-resolved two-photon photoemission spectroscopy, *Journal of Electron Spectroscopy and Related Phenomena*, 184, 309–312, 2011
3. Noriko Nitta, Yohta Aizawa, Tokiya Hasegawa and Hidehiro Yasuda, Structural changes induced by low energy electron irradiation in GaSb, *Philosophical Magazine Letters*, 91, 676–681, 2011
4. H. Yasuda, K. Matsumoto, T. Furukawa, M. Imamura, N. Nitta and H. Mori, Thickness-dependent structural transition in GaAs nanocrystals grown on Si(111) surface, *Journal of Crystal Growth*, 314, 365-369, 2011
5. H. Yasuda and H. Mori, Electronic-excitation-induced processing in GaSb compound nanoparticles, *Journal of Nanomaterials*, Article ID 901930, 1-4, 2011
6. N. Nitta, E. Taguchi, H. Yasuda, H. Mori, Y. Hayashi, T. Yoshiie and M. Taniwaki, Secondary defects induced by ion and electron irradiation of GaSb, *Philosophical Magazine Letters*, 91, 223-228, 2011
7. Y. Ikeuchi, T. Inoue, M. Asada, Y. Harada, T. Kita, E. Taguchi and H. Yasuda, Multidirectional observation of photoluminescence polarization anisotropy in closely stacked InAs/GaAs quantum dots, *Applied Physics Express*, 4, 062001-1-3, 2011
8. 保田英洋, 合金ナノ粒子の相平衡—平衡状態と電子励起効果—, *触媒*, 53, 9-13, 2011
9. 保田英洋, 3MV 超高压電子顕微鏡内その場観察法とその物質・材料科学への新展開, *顕微鏡*, 46, 160-164, 2011

国際会議プロシーディングス

1. H. Yasuda, "In situ TEM observations of electronic-excitation-induced structural transition process in GaSb nanoparticles", *Proc. of 10th Asia-Pacific Microscopy Conference*, 96-1-2, 2012
2. K. Yoshida, R. Nishi, H. Mogaki, S. Isakozawa and H. Yasuda, "Design of an operation support system for the ultrahigh voltage electron tomography", *Proc. of 10th Asia-Pacific Microscopy Conference*, 445-1-2, 2012
3. R. Nishi, Y. Moriyama, K. Yoshida, N. Kajimura, S. Isakozawa, H. Mogaki, M. Ozawa, and H.

Yasuda, "Quasi Gaussian fitting of image sharpnesses for automatic focusing in ultrahigh voltage electron microscopy", Proc. of 10th Asia-Pacific Microscopy Conference, 446-1-2, 2012

受賞

1. 古田剛史, "材料物性工学談話会研究発表優秀賞「MeV 電子照射による純金属ナノ粒子の構造変化およびその粒径依存性」", 2012 年 1 月 16 日

共同研究

大学：国内 5 / 国外 2

企業：国内 1