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學歷 Education :

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研究興趣 Research Fields :

同步輻射應用研究

Application Research of Synchrotron Radiation

同步輻射光電子能譜顯微術

Photoelectron Spectromicroscopy Using Synchrotron Radiation

Recent Publication :

(1) P. H. Borse, J. M. Yi, and J. H. Je, W. L. Tsai and Y. Hwu: "pH dependence of synchrotron x-ray induced electroless nickel deposition" , J. Appl. Phys. 95, 1166-70 (2004) [PDF File](#)

(2) Y. Hwu, W. L. Tsai, J. H. Je, S. K. Seol, Bora Kim, A. Groso, G. Margaritondo, Kyu-Ho Lee and Je-Kyung Seong: "Synchrotron microangiography with no contrast agent" , Phys. Med. Biol. 49 501-508 (2004). [PDF File](#)

(3) Guilin Zhang, Ziyu Wu, Aiguo Li, Yinsong Wang, Jing Zhang, M. I. Abbas, R. Hu, Xinb Ni, Yongpeng Tong, Yeukuang Hwu: "XANES investigation of the local structure of Co nanoclusters embedded in Ag" , Phys. Rev. B 69 115405 (2004). [PDF File](#)

(4) S. K. Seol, J. M. Yi, x. Jin, C. C. Kim, J. H. Je, W. L. Tsai, P. C. Hsu, Y. Hwu, C. H. Chen, L. W. Chang and G. Margaritondo, "Coherent Microradiology observes a Critical Cathode-Anode Distance Effect in Localized Electrochemical Deposition (LECD)" , Electrochemical and Solid-State Letter 7(9) C95-C97 (2004) [PDF File](#)

(5) Y. Hwu, W. L. Tsai, H. M. Chang, H. I. Yeh, P.C. Hsu, Y. C. Yang, Y. T. Su, H.L.Tsai, G.M. Chow, P. C. Ho, S.C. Li, H. O. Moser, P. Yang, S. K. Seol , C. C. Kim, J. H. Je, E. Stefanekova, A. Groso, G. Margaritondo: "Imaging Cells in Tissues with Refractive Index Radiology" , Biophysical Journal 87, 4180-4187(2004) [PDF File](#)

- (6) S. Baik, H.S. Kim, M.H. Jeong, and C.S. Lee, J. H. Je, Y. Hwu G. Margaritondo: "The ICPCIR (International Consortium on Phase Contrast Imaging and Radiology) Beamline at the Pohang Light Source" , Review of Scientific Instrument 75, 4355 (2004) [PDF File](#)
- (7) R. Meuli, Y. Hwu, J. H. Je and G. Margaritondo: "Synchrotron Radiation in Radiology - Part II: Radiology Techniques Based on Synchrotron Sources" , European Journal of Radiology 14:1550-1560 (2004) [PDF File](#)
- (8) C. C. Kim, S. K. Seol, J. K. Kim, J.-L. Lee, Y. Hwu, P. Ruterana, G. Margaritondo, and J. H. Je: "Metal/GaN reaction chemistry and their electrical properties" , Phys. Stat. Sol. (b) 241, 2771–2774 (2004) [PDF File](#)
- (9) C. J. Sun, G. M. Chow, J. P. Wang, E. W. Woo, D. Y. Noh, J. H. Je, Y. K. Hwu: "A structural study of effects of NiP seed layer on the magnetic properties of CoCrPt/Ti/NiP Perpendicular magnetic films", Nucl. Instrum. Meth. B 199, 156(2003).
- (10) W. L Tsai, Y. Hwu, C. H. Chen, L. W. Chang, J. H. He, H. M. Lin and G. Margaritondo: "Grain Boundary Imaging, Gallium Diffusion and the fracture Behavior of Al-Zn Alloy !V an in situ study", Nucl. Instrum. Meth. B 199, 457(2003).
- (11) W. L Tsai, P.C. Hsu, Y. Hwu, J. H. Je, Y. Ping, H. O. Moser, A. Groso and G. Margaritondo: "Edge-enhanced Radiology with Broadband Synchrotron X-Rays", Nucl. Instrum. Meth. B 199, 436(2003).
- (12) W. L Tsai, P. C. Hsu, Y. Hwu, C. H. Chen, L. W. Chang, J. H. He, A. Groso and G. Margaritondo: "Real-time Observation of Zn Electro-deposition with High-Resolution Microradiology", Nucl. Instrum. Meth. B 199, 451(2003).
- (13) W. L Tsai, P. C. Hsu, Y. Hwu, C. H. Chen, L. W. Chang, J. H. He, A. Groso and G. Margaritondo: "Real-time Observation of Zn Electro-deposition with High-Resolution Microradiology", Nucl. Instrum. Meth. B 199, 451(2003).
- (14) Jong Ryun. Kim, H.S. Kang, Ho Jun Lee, Jung Ho Je, S. K. Jeong, W. L. Tsai, P. C. Hsu, and Y. Hwu: "Real-time micro-radiology of disintegration of iron ore sinteres", Nucl. Instrum. Meth. B199, 441(2003).
- (15) Ho June Lee, Jung Ho Je, Y. Hwu and W.L. Tsai: "Synchrotron x-ray induced solution precipitation of nanoparticles" Nucl. Instrum. Meth. B 199, 342(2003).