

## 2006=2549 (Oct 2005 – Sep 2006)

### BL3Ua: PES 1 article

1. Songsiriritthigul, P., Wongkokua, W., Nakajima, H., Pairsuwan, W., Ishii, T., and Kakizaki, A. "MVV Super Coster-Kronig Spectra of Nickel Near the Excitation Threshold" *Journal of Physics: Condensed Matter* 17.43 (Oct 2005): 7029-7052.

### Others 14 articles

1. Du, M.-H., Limpijumnong, S. and Zhang, S. B. "Ion Relaxation and Hydrogen LVM in H-Irradiated GaAsN" *Physica B* 287 (Apr 2006): 94-100.
2. DU, M.-H., Limpijumnong, S. and Zhang, S.B. "Hydrogen-Mediated Nitrogen Clustering in Dilute III-V Nitrides" *Physical Review Letter* 89 (Aug 2006): 075503.
3. Du, M.-H., Limpijumnong, S. and Zhang, S.B "Hydrogen Pairs and Local Vibrational Frequencies in H-irradiated GaAs<sub>1-y</sub>N<sub>y</sub>" *Physical Review B* 72 (Aug 2005): 073202-5.
4. Kamenev, K.V., Tancharakorn, S., Robertson, N. and Harrison, A. "Long Symmetric High-Pressure cell for Magnetic Measurements in Superconducting Quantum Interference Device Magnetometer" *Review of Scientific Instruments* 77 (Jul 2006): 073905.
5. Kulkarni, A.J., Zhou, M., Sarasamak, K. and Limpijumnong, S. "Novel Phase Transformation in ZnO Nanowires Under Tensile Loading" *Physical Review Letter* 97 (Sep 2006): 105502.
6. Li, X., Asher, S. E., Limpijumnong, S., Keyes, B. M., Perkins, C.L., Barnes, T.M., Moutinho, H. R., Luther, J. M., Zhang, S.B., Wei, S.-H. and Coutts, T.J. "Impurity Effects in ZnO and Nitrogen-Doped ZnO Thin Films Fabricated by MOCVD" *Journal of Crystal Growth* 287 (Jan 2006): 94-100.
7. Limpijumnong, S., Li, X., Wei, S.-H. and Zhang, S. B. "Probing Deactivations in Nitrogen Doped ZnO by Vibrational Signatures: A First Principles Study" *Physica B* 376-377 (Jan 2006): 686-689.
8. Look, D.C., Farlow, G.C., Reunchan, P., Limpijumnong, S., Zhang, S.B. and Nordlund, K. "Evidence for Native- Defect Donors in n-type ZnO" *Physical Review Letter* 95 (Nov 2005): 225502.
9. Na-Phattalung, S., Smith, M. F., Kim, K., Du, M.-H., Wei, S.-H., Zhang, S.B. and Limpijumnong, S. "First-Principles Study of Native Defects in Anatase TiO<sub>2</sub>" *Physical Review B* 73 (Mar 2006): 125205.
10. Smith, M. F. "Phenomenological Theory of the Resistivity MnSi Above the Critical Pressure" *Journal of Physics: Condensed Matter* 17 (Dec 2005): 8049-8055.
11. Smith, M. F. "Erosion of Nodal Fermi Spheres in Nonequilibrium d-Wave Superconductors" *Physical Review B* 72 (Dec 2005): 212513.
12. Suginta, W., Vongsuwan, A., Songsirithigul, C., Svasti, J. and Prinz, H. "Enzymatic Properties of Wild-Type and Active site Mutants of Chitinase a from *Vibrio Carchariae*, as Revealed by HPLC-MS" *European Journal of Biochemistry* (Jul 2005): 1-11.
13. Tancharakorn, S., Fabbiani, Francesca P. A., Allan, David R., Kamenev, Konstantin V. and Robertson, N. "Combined Magnetic and Single Crystal X-ray Structural Study of the Linear Chain Antiferromagnet [(CH<sub>3</sub>)<sub>4</sub>N][MnCl<sub>3</sub>] Under Varying Pressure" *Journal of the American Chemical Society (JACS)* 128 (Jul 2006): 9205-9210.
14. Zeng, Y.J., Ye, Z.Z., Lu, J.G., Xu, W.Z., Zhu, L.P., Zhao, B.H. and Limpijumnong, S. "Identification of Acceptor States in Li-doped P-type ZnO Thin Films" *Applied Physics Letter* 89.4 (Jul 2006): 042106.

### Facility 1 article

1. Apiwatwaja, R., Chunjarean, S., Hass, K., Hoyes, G., Kaewprasert, C., Klysubun, P., Klysubun, W., Pairsuwan, W., Rugmai, S., Rujirawat, S., Sanguansak, N., Songsiriritthigul, P. and Wiedemann, H. "X-Rays at the Siam Photon Source" *Solid State Phenomena* 107 (Oct 2005): 1- 6.

### **SR Related 1 article**

1. Songsirithigul, C., Yuvaniyama, J., Robinson, R.C., Vongsuwan, A., Prinz, H. and Suginta, W. "Expression, Purification, Crystallization and Preliminary Crystallographic Analysis of Chitinase a from *Vibrio Carchariae*" *Acta Crystallographica* F61 (Oct 2005): 895-898.

### **Instrumentation 1 article**

1. Hass, K., Kaewprasert, C. and Pairsuwan, W. "Frequency Map Analysis of the Siam Photon Source Storage Ring with a Wavelength Shifter" *Japanese Journal of Applied Physics* 45.5A (May 2006): 4237-4240.