

2008-2551 (Oct 2007 – Sep 2008)

BL3.2Ua: PES 4 articles

1. Chumpolkulwong, S., Nakajima, H., Buddhakala, M., Sabrueangnet, R., Sonsiriritthigul, P. and Kakizaki, A. "Angle-Resolved Photoemission Study of Electronic States in Ni(111) Surface with Oxygen Adsorption" *Journal of the Physical Society of Japan* 76 (Oct 2007): 114702.
2. Khonton, S., Punpai, P., Morimoto, S., Khonthon, S., Arai U., Suzuki, U. and Ohishib, Y. "On the Near-Infrared Luminescence from TeO₂ Containing Borate Glasses" *Journal of the Ceramic Society of Japan* 116 (Jul 2008): 829-831.
3. Worayingyong, A., Kangvansura, P., Ausadasuk, S. and Praserttham, P. "The Effect of Preparation: Pechini and Schiff Base Methods, on Adsorbed Oxygen of LaCoO₃ Perovskite Oxidation Catalysts" *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 315 (Feb 2008): 217-225.
4. Worayingyong, A., Kangvansura, P., and Kityakarn, S. "Schiff Base Complex Sol-Gel Method for LaCoO₃ Perovskite Preparation with High-Adsorbed Oxygen" *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 320 (May 2008): 123-129.

BL8: XAS 8 articles

1. Ewacharoen, A., Thiravetyan, P. and Nakbanpote, W. "Comparison of Nickel Adsorption from Electroplating Rinse Water by Coir Pith and Modified Coir Pith" *Chemical Engineering Journal* 137.2 (Apr 2008): 181-188.
2. Klysubun, W., Thanawan, S., Thamasiririanunt, P., Radabutra, S. and Sombunchoo, P. "Determination of Chlorine Content in Chlorinated, Vulcanized Natural Rubber by XANES" *Nuclear Instruments and Methods in Physics Research A* 582 (Nov 2007): 242-244.
3. Klysubun, W., Sombunchoo, P., Wongprachanukul, N., Tarawarakarn, P., Klinkhieo, S., Chaiprapa, J. and Songsiriritthigul, P. "Commissioning and Performance of X-Ray Absorption Spectroscopy Beamline at the Siam Photon Laboratory" *Nuclear Instruments and Methods in Physics Research A* 582 (Nov 2007): 87-89.
4. Pattanasiriwisawa, W., Siritapetawee, J., Patarapaiboolchai, O. and Klysubun, W. "Structural Analysis of Sulfur in Natural Rubber Using X-Ray Absorption Near-edge Spectroscopy" *Journal of Synchrotron Radiation* 15 (Sep 2008): 510-513.
5. Smith, M.F., Setwong, K., Tongpool, R., Onkaw, D., Na-Phatalung, S., Limpijumnong, S. and Rujirawat, S. "Identification of Bulk and Surface Sulfur Impurities in TiO₂ by Synchrotron X-ray Absorption Near Edge Structure" *Applied Physics Letters* 91 (Oct 2007): 142107.
6. Siritapetawee, J. and Pattanasiriwisawa, W. "An Attempt at Kidney Stone Analysis with the Application of Synchrotron Radiation" *Journal of Synchrotron Radiation* 15.2 (Mar 2008): 158-161.
7. Sukveeradachgul, P. and Pijitrojana, W. "The Characterization of EuO Nanocrystals Using Synchrotron Light" *Applied Surface Science* 254.23 (Sep 2008): 7651-7654.
8. T-Thienprasert, J., Nukeaw, J., Sungthong, A., Porntheeraphat, S., Singkarat, S., Onkaw, D., Rujirawat, S. and Limpijumnong, S. "Local Structure of Indium Oxynitride from X-Ray Absorption Spectroscopy" *Applied Physics Letters* 93 (Aug 2008): 051903.

SR Related 3 articles

1. Cherdhirunkorn, B., Smith, M.F., Limpijumnong, S. and Halld, D.A. "EXAFS Study on the Site Preference of Mn in Perovskite Structure of PZT Ceramics" *Ceramics International* 34.4 (May 2008): 727-729.
2. Limpijumnong, S., Smith, M.F. and Zhang, S.B. "Response to Comment on "Characterization of As-doped, p-type ZnO by X-Ray Absorption Near-edge Structure Spectroscopy: Theory" *Applied Physics Letters* 92 (Jun 2008): 236102.

3. Suginta, W., Songsiriritthigul, C., Kobdaj, A., Opassiri, R and Svasti, J. "Mutations of Trp275 and Trp397 Altered the Binding Selectivity of *Vibrio carchariae* Chitinase A" *Biochimica et Biophysica Acta*.1770 (Aug 2007): 1151-1160.

Others 7 articles

1. Janotti, A., Reunchan, P., Limpijumnong, S. and Van de Walle, C.G. "Mutual Passivation of Electrically Active and Isovalent Impurities in Dilute Nitrides" *Physical Review Letters* 100 (Jan 2008): 045505.
2. Kulkarni, A.J., Sarasamak, K., Wang, J., Ke, F.J. Limpijumnong, S. and Zhou. M. "Effect of Load Triaxiality on Polymorphic Transitions in Zinc Oxide" *Mechanics Research Communications* 35 (Mar 2008): 73.
3. Limpijumnong, S., Smith, M.F. and Zhang, S.B. "Carbon-Nitrogen Molecules in GaAs and Gap" *Physical Review B* 77 (May 2008): 195209.
4. Pantoom, S., Songsiriritthigul, C. and Suginta, W. "The Effects of the Surface- Exposed Residues on the Binding and Hydrolytic Activities of *Vibrio Carchariae* Chitinase A" *BMC Biochemistry* 9.2 (Jan 2008): 1471-2091.
5. Sadorn, K., Sinananwanich, W., Areephong, J., Nerungsi, J., Wongma, C., Kawatchai, C. and Thongpanchang, T. "An Efficient Synthesis of Dinaphthothiophene Derivatives" *Tetrahedron Letters* 49.29-30 (Jul 2008): 4519-4521.
6. Sarasamak, K., Kulkarni, A.J., Zhou. M and Limpijumnong, S. "Stability of Wurtzite, Unbuckled Wurtzite, and Rocksalt Phases of SiC, GaN, InN, ZnO, and CdSe "Under Loading of Different Triaxialities" *Physical Review B* 77 (Jan 2008): 024104.
7. Wang, J., Kulkarni, A.J., Sarasamak, K., Limpijumnong, S., Ke, F.J. and Zhou. M. "Molecular Dynamics and Density Functional Studies of a Body-Centered-Tetragonal Polymorph of ZnO" *Physical Review B* 76 (Nov 2007): 172103.

Instrumentation 4 articles

1. Dasri, T., Siri wattanapaitoon, S., Chachai, W. and Rugmai, S. "Characterization of Soft X-ray Undulator for the Siam Photon Source" *Nuclear Instruments and Methods In Physics Research A* 582 (Nov 2007): 40-42.
2. Klysubun, P., Kwankasem, C., Rugmai, S., Rujirawat, S., Cheedket, S., Hoyes, G. G. and Oyamada, M. "Operation and Improvement of the Siam Photon Source" *Nuclear Instruments and Methods in Physics Research A* 582 (Nov 2007): 18-21.
3. Klysubun, P., Rugmai, S., Kwankasem, C., Klysubun, W. and Prawatsri, P. "A 6.4 T Superconducting Wavelength Shifter for the Generation of Hard X-Rays at the Siam Photon Source" *Nuclear Instruments and Methods in Physics Research A* 582 (Nov 2007): 47-50.
4. Songsiriritthigul, P., Kijornrattanawanich, B., Tong-on, A. and Nakajima, H. "Design of the First Undulator Beamline for the Siam Photon Laboratory" *Nuclear Instruments and Methods in Physics Research A* 582 (Nov 2007): 101-102.