

2015=2558 (Oct 2014 – Sep 2015)

BL1.3W: SAXS 5 articles

1. Jaah, D., Putson, C. and Muensit, N. "Deformation on Segment-Structure of Electrostrictive Polyurethane/Polyaniline Blends" *Polymer* 61 (Mar 2015): 123-130.
2. Phinjaroenphan, R., Kim, Y. Y., Jung, S., Isono, T., Satoh, Y., Maensiri, S., Rugmai, S., Kakuchi, T., Satoh, T., Ree, M. "Grazing Incidence Small-Angle X-Ray Scattering Studies of the Thin Film Morphologies of Miktoarm Crystalline Star Polymer" *Science of Advanced Materials* 6. 11 (Nov 2014): 2526-2531.
3. Sanguansat, P. and Amornsakchai, T. "Effect of Matrix Morphology on Mechanical and Barrier Properties of Polypropylene Nanocomposite Films Containing Preferentially Aligned Organoclay Platelets" *Journal of Polymer Research* 22 (Mar 2015):
4. Srisanga, S., Flood, A. E., Galbraith, S. C., Rugmai, S., Soontaranon, S. and Ulrich, J. "Crystal Growth Rate Dispersion vs. size Dependent Crystal Growth: Appropriate Modeling for Crystallization Processes" *Crystal Growth & Design* 15 (2015): 2330-2336.
5. Weerapol, Y., Limmatvapirat, S., Kumpugdee-Vollrath, M. and Sriamornsak, P. "Spontaneous Emulsification of Nifedipine-Loaded Self-Nanoemulsifying Drug Delivery System" *AAPS PharmSciTech* 16. 2 (Apr 2015): 435-443.

BL2.2: TRXAS 7 articles

1. Kangvansura, P., Schulz, H., Suramitr, A., Poo-arporn, Y., Viravathana, P. and Worayingyong, A. "Reduced Cobalt Phases of ZrO₂ and Ru/ZrO₂ Promoted Cobalt Catalysts and Product Distributions from Fischer-Tropsch Synthesis" *Materials Science and Engineering: B* 190 (Dec 2014): 82-89.
2. Khemjeen, Y., Pinitsoontorn, S. and Chompoosor, A. "Effect of Baron Addition on the Structure and Magnetic Properties of CoPt Nanoparticles" *Journal of Applied Physics* 117 (2015): 17D513.
3. Kongkinka, P., Chatrewongwan, K., Saiwattanasuk, P. and Viravathana, P. "Cu/ZnO Catalysts for Enhancing the Methanol Selectivity in Fischer-Tropsch Synthesis" *Key Engineering Materials* 659 (2015): 206-210. **Use BL2.2, BL8**
4. Poo-arporn, Y., Thachepan, S. and Palangsuntikul, R. "Investigation of Damaged Interior Walls Using Synchrotron-Based XPS and XANES" *Journal of Synchrotron Radiation* 22 (Jan 2015): 86-90. **Use BL3.2Ua, BL5.2, BL2.2**
5. Pongha, S., Seekoan, B., Limphirat, W., Kidkhunthod, P., Srilomsak, S., Chiang, Y. M. and Meethong, N. "Phase Transitions: XANES Investigation of Dynamic Phase Transition in Olivine Cathode for Li-Ion Batteries" *Advanced Energy Materials* 5. 15 (Aug 2015): 1500663.
6. Rutirawut, T., Limphirat, W., Sinsarp, A., Tivakornsasithorn, K., Srihirin, T. and Ositchan, T. "Composition and Oxidation State of Cobalt-and Nickel-Iron Oxide Colloidal Nanoparticles in Liquid Phase" *Advanced Materials Research* 1103 (2015): 21-27.
7. Wetsuwan, K., Prachopchok, P., Juagwon, T., Limphirat, W., Tivakornsasithorn, K., Sinsarp, A. and Osotchan, T. "Thermal Annealing Effect on Real time Atomic Relocation of Iron-Cobalt Alloys Prepared by Electro-Deposition" *Advanced Materials Research* 1103 (2015): 69-75

BL3.2Ua: PES 14 articles

1. Chong, S. K., Dee, C. F. and Rahman, S. A. "Single Reactor Deposition of Silicon/Tungsten Oxide Core-Shell Heterostructure Nanowires with Controllable Structure and Optical Properties" *The Royal Society of Chemistry Advanced* 5 (2015): 2346-2353.

2. Gan, J. K., Lim, Y. S., Huang, N. M. and Lim, H. N. "Hybrid Silver Nanoparticle/Nanocluster-Decorated Polypyrrole for High-Performance Supercapacitors" *RSC Advances* 5 (2015): 75442-75450.
3. Golsheikh, A. M., Huang, N. M., Lim, H. N. and Zakaria, R. "One-Pot Sonochemical Synthesis of Reduced Graphene Oxide Uniformly Decorated with Ultrafine Silver Nanoparticles for Non-Enzymatic Detection of H₂O₂ and Optical Detection of Mercury Ions" *RSC Advances* 4 (2014): 36401-36411.
4. Hafiz, S. M., Chong, S. K., Huang, N. m. and Rahman, S. A. "Fabrication of High-Quality Graphene by Hot-Filament Thermal Chemical Vapor Deposition" *Carbon* 86 (May 2015): 1-11. Use BL3.2Ua+b
5. Hirunpinyopas, W., Davis, S.A., Sirisaksoontorn, W. and Songsasen, A. "Sm/N-Codoped TiO₂ Preparation, Characterization, and Photocatalytic Decolourization of Acid Orange 7 and Basic Blue 41 in Sunlight" *ScienceAsia* 41 (2015): 42-48.
6. Horprathum, M., Srichaiyaperk, T., Samransuksamer, B., Wisitsoraat, A., Eiamchai, P., Limwichean, S., Chananonwathorn, C., Aiempanakit, K., Nuntawong, N., Patthanasettakul, V., Oros, C., Porntheeraphat, S., Songsiriritthigul, P., Nakajima, H., Tuantranont, A. and Chindaudom, P. "Ultrasensitive Hydrogen Sensor Based on Pt-Decorated WO₃ Nanorods Prepared by Glancing-Angle dc Magnetron Sputtering" *ACS Applied Materials & Interfaces* 6 (Nov 2014): 22051-22060.
7. Kamal, A., Ritikos, R. and Rahman, S.A. "Wetting Behaviour of Carbon Nitride Nanostructures Grown by Plasmaenhanced Chemical Vapour Deposition Technique" *Applied Surface Science* 328 (2015): 146-153.
8. Lim, S. P., Pandikumar, A., Huang, N. M. and Lim, H. N. "Facile Synthesis of Au@TiO₂ Nanocomposite and its Application as a Photoanode in Dye-Sensitized Solar Cells" *The Royal Society of Chemistry Advanced* 5 (2015): 44398-44407.
9. Lim, S. P., Pandikumar, A., Huang, N. M., Lim, H. N., Gu, G. and Ma, T. L. "Promotional Effect of Silver Nanoparticles on the Performance of N-doped TiO₂ Photoanode-Based Dye-Sensitized Solar Cells" *RSC Advances* 4 (2014): 48236-48244.
10. Lim, S. P., Pandikumar, A., Lim, H. N., Ramaraj, R. and Huang, N. M. "Boosting Photovoltaic Performance of Dye-Sensitized Solar Cells Using Silver Nanoparticle-Decorated N,S-Co-Doped-TiO₂ Photoanode" *RSC Advances* 5 (2015): 11922.
11. Lowpa, S., Pimanpang, S., Maiaugree, W., Saekow, S., Uppachai, P., Mitravong, S. and Amornkitbamrung, V. "Nanoporous Carbon Microspheres from Carrot Juice used as a Counter Electrode for a Dye-Sensitized Solar Cell" *Materials Letters* 158 (2015): 115-118.
12. Pleerdsranoy, P., Wiset, N., Milanese, C., Laipple, D., Marini, A., Klassen, T., Dornheim, M. and Gosalawit-Utke, R. "Improvement of Thermal Stability and Reduction of LiBH₄/Polymer Host Interaction of Nanoconfined LiBH₄ for Reversible Hydrogen Storage" *International Journal of Hydrogen Energy* 40 (Jan 2015): 392-402.
13. Phongamwong, T., Chareonpanich, M. and Limtrakul, J. "Role of Chlorophyll in Spirulina on Photocatalytic Activity of CO₂ Reduction Under Visible Light Over Modified N-doped TiO₂ Photocatalysts" *Applied Catalysis B: Environmental* 168-169 (Jun 2015): 114-124.
14. Poo-arporn, Y., Thachepan, S. and Palangsuntikul, R. "Investigation of Damaged Interior Walls Using Synchrotron-Based XPS and XANES" *Journal of Synchrotron Radiation* 22 (Jan 2015): 86-90. Use BL3.2Ua, BL5.2, BL2.2

BL3.2Ub: PEEM 3 articles

1. Hafiz, S. M., Chong, S. K., Huang, N. M. and Rahman, S. A. "Fabrication of High-Quality Graphene by Hot-Filament Thermal Chemical Vapor Deposition" *Carbon* 86 (May 2015): 1-11. Use BL3.2Ua+b
2. Kanjanachuchai, S. and Photongkam, P. "Dislocation-Guided Self-Running Droplets" *Crystal Growth & Design* 15 (2015) : 14-19.
3. Trisna, B. A., Nakareseisoon,, N., Eiwongcharoen, W., Panyakeow, S. and Kanjanachuchai, S. "Reliable Synthesis of Self-Running Ga Droplets on GaAs (001) in MBE Using RHEED Patterns" *Nanoscale Research Letters* (2015) 10: 184.

BL5.2: SUT-Nano-SLRI 14 articles

1. Boonlakhorn, J., Kidkhunthod, P. and Thongbai, P. "A Novel Approach to Achieve High Dielectric Permittivity and Low Loss Tangent in CaCu₃Ti₄O₁₂ Ceramics by co-doping with Sm³⁺ and Mg²⁺ Ions" *Journal of the European Ceramic Society* 35 (2015): 3521–3528.
2. Boonlakhorn, J., Kidkhunthod, P., Putasaeng, B., Yamwong, T., Thongbai, P. and Maensiri, S. "Giant Dielectric Behavior and Electrical Properties of Ca_{123x/2}LuxCu₃Ti₄O₁₂ Ceramics" *Applied Physics A Materials Science & Technology* 120. 1 (Jul 2015): 89-95.
3. Daengsakul, S., Kidkhunthod, P., Soisang, O., Kuenoon, T., Bootchanont, A. and Maensiri, S. "The Effect of Gd Doping in La_{1-x-y}Gd_xSr_yMnO₃ Compound on Nanocrystalline Structure by X-ray Absorption Spectroscopy (XAS) Technique" *Microelectronic Engineering* 146 (2015): 38-42.
4. Itthibenchapong, V., Ratanatawanate, C., Oura, M. and Faungnawakij, K. "A Facile and Low-Cost Synthesis of MoS₂ for Hydrodeoxygenation of Phenol" *Catalysis Communications* 68 (2015): 31-35.
5. Pinitsoontorn, S., Prasoetsopha, N., Srepusharawoot, P., Bootchanont, A., Kidkhunthod, P., Kamwanna, T., Amornkitbamrung, V., Kurosaki, K. and Yamanaka, S. "Local Structure Determination of Substitutional Elements in Ca₃Co₄ xMxO₉ (M^{1/4}Fe, Cr, Ga) Using" *Physica Status Solidi A* 211. 8 (2014): 1732-1739. Use BL5.2, BL8, CMP
6. Phokha, S., Hunpratup, S., Pinitsoontorn, S., Putasaeng, B., Rujirawat, S. and Maensiri, S. "Structure, Magnetic, and Dielectric Properties of Ti-doped LaFeO₃ Ceramics Synthesized by Polymer Pyrolysis Method" *Materials Research Bulletin* 67 (Jul 2015): 118-125.
7. Saensuk, O., Phokha, S., Bootchanont, A., Maensiri, S. and Swatsitang, E. "Fabrication and Magnetic Properties Of NiFe₂O₄ Nanofibers Obtained by Electrospinning" *Ceramics international* 41. 6 (Jul 2015): 8133-8141.
8. Sanetuntikul, J., Chuaicham, C., Choi, Y. W. and Shanmugam, S. "Investigation of Hollow Nitrogen-doped Carbon Spheres as Nonprecious Fe-N₄ based Oxygen Reduction Catalyst" *Journal of Materials Chemistry A* 3 (2015): 15473-15481.
9. Siritaptawee, J., Limphirat, W., Kantachot, C. and Kongmark, C. "The Effects of Metal Ions in *Euphorbia cf. lactea* Latex on the Fibrinolytic Activity of a Plant Protease" *Applied Biochemistry and Biotechnology* 175 (Jan 2015): 232-242.
10. Srifa, A., Viriya-empikul, N., Assabumrungrat, S. and Faungnawakij, K. "Catalytic Behaviors of Ni/γ-Al₂O₃ and Co/γ-Al₂O₃ During the Hydrodeoxygenation of Palm Oil" *Catalysis Science & Technology* 5 (2015): 3693-3705.
11. Witoon, T., Permsirivanich, T., Kanjanasontorn, N., Akkaraphataworn, C., Seubsai, A., Faungnawakij, K., Warakulwit, C., Chareonpanich, M. and Limtrakul, J. "Direct Synthesis of Dimethyl Ether from CO₂ Hydrogenation Over Cu–ZnO–ZrO₂/SO₄²⁻–ZrO₂ Hybrid Catalysts: Effects of Sulfur-to-Zirconia Ratios" *Catalysis Science & Technology* 5 (2015): 2347-2357.
12. Wongpratut, U., Maensiri, S. and Swatsitang, E. "EXAFS Study of Cations Distribution Dependence of Magnetic Properties in Co_{1-x}Zn_xFe₂O₄ Nanoparticles Prepared by Hydrothermal Method" *Microelectronic Engineering* 146 (2015): 68-75.
13. Yodsa-nga, A., Millanar, J. M., Neramittagapong, A., Khemthong, P. and Wantala, K. "Effect of Manganese Oxidative Species in As-Synthesized K-OMS 2 on the Oxidation of Benzene" *Surface & Coatings Technology* 271 (2015): 217-224.
14. Ziegler, P., Paul, N., Muller-Buschbaum, P., Wiedemann, B., Kreuzpaintner, W., Jutimoosik, J., Yimnirun, R., Setzer, A., Esquinazi, P., Boni, P. and Paul, A. "Self-Organization of Fe Clusters on Mesoporous TiO₂ Templates" *Journal of Applied Crystallography* 47 (Dec 2014): 1921-1930.

BL6a: DXL 3 articles

1. Deekla, P., Phatthanakun, R., Sujitiorn, S. and Chomnawang, N. "Al Microheater and Ni Temperature Sensor Set based-on Photolithography with Closed-Loop Control" *International Journal Electrical and Computer Engineering (IJECE)* 5. 4 (Aug 2015): 849-858.

- Leksakul, K., Maneekat, C. and Phatthanakul, R. "Patterning of Burnishing Head for Hard Disk Platters by Synchrotron Radiation Lithography" *Microsystem Technologies* 20. 12 (Dec 2014): 2203-2211.
- Sukonrat, P., Sirisathitkul, C., Rattanasakulthong, W., Jantaratana, P. and Sripung, C. "Magnetic Properties of Sputtered Cobalt Films on X-ray Lithographic Substrates" *Digest Journal of Nanomaterials and Biostructures* 10 (Jan -Mar 2015): 1-9.

BL6b: XRF 1 article

- Nanthavong, K. and Sampanpanish, P. "Effect of NTA and EDTA on Arsenic Uptake from Contaminated Soil" *Modern Applied Science* 9 (Aug 2015): 280-291.

BL8: XAS 27 articles

- Abel, S., Nehls, T., Mekiffer, B., Mathes, M., Thieme, J. and Wessolek, G. "Pools of Sulfur in Urban Rubble Soils" *Journal of Soils and Sediments* 15. 3(Mar 2015): 532-540.
- Bootchanont, A., Triamnak, N., Rujirawat, S., Yimnirun, R., Cann, D. P., Guo, R. and Bhalla, A. "Local Structure and Evolution of Relaxor Behavior in BaTiO₃-Bi(Zn_{0.5}Ti_{0.5})O₃ Ceramics" *Ceramics International* 40. 9 pt.B (Nov 2014): 14555-14562.
- Bootchanont, A., Jutimoosik, J., Chandarak, S., Unruan, M., Kidkhunthod, P., Klysubun, W., Rujirawat, S., Yimnirun, R., Guo, R. and Bhalla, A. "Synchrotron X-Ray Absorption Spectroscopy Study of Local Structure Transformation Behavior in Perovskite Ba(Ti,Zr)O₃ System" *Journal of Alloys and Compounds* 616 (Dec 2014): 430-435.
- Chokprasombat, K., Sirisathitkul, Y., Sirisathitkul, C., Sarmphim, P. and Harding, P. "TEM Image Analysis of FePt Based Nanoparticles Synthesized by Using Fe(hfac)₃ and Fe(tmhd)" *Journal of Superconductivity and Novel Magnetism* 28. 4 (Apr 2015): 1199-1206.
- Eveborn, D., Gustafsson, J. P., Elmefors, E., Yu, L., Eriksson, A-K. Ljung, E. and Renman, G. "Phosphorus in Soil Treatment Systems: Accumulation and Mobility" *Water Research* 64 (Nov 2014): 42-52.
- Kiattisaksiri, P., Khamdahsag, P., Khemthong, P., Pimpha, N. and Grisdanurak, N. "Photocatalytic Degradation of 2,4-Dichlorophenol Over Fe-ZnO Catalyst Under Visible Light" *Korean journal of Chemical Engineering* 32. 8 (Aug 2015): 1578-1585.
- Klysubun, W., Hauzenberger, C. A., Ravel, B., Klysubun, P., Huang, Y., Wongtepa, W. and Sombunchoo, P. "Understanding the Blue Color in Antique Mosaic Mirrored Glass from the Temple of the Emerald Buddha, Thailand" *X-Ray Spectrometry* 44. 3 (May-Jun 2015): 116-123.
- Kongkinka, P., Chatrewongwan, K., Saiwattanasuk, P. and Viravathana, P. "Cu/ZnO Catalysts for Enhancing the Methanol Selectivity in Fischer-Tropsch Synthesis" *Key Engineering Materials* 659 (2015): 206-210. **Use BL2.2, BL8**
- Mekprasart, W., Worasawat, S., Tangcheroen, T. and Pecharapa, W. "Characterization and Effect of Calcination Temperature on Structural Properties of Spinel Zinc Aluminate Synthesized Via Co-Precipitation Process" *Physica Status Solidi ©* 12. 6 (Jun 2015): 624-627.
- Monarumit, N., Noirawee, N., Phlayrahan, A., Promdee, K., Won-in, K. and Satitkune, S. "Identification of High-Luster and Lusterless Freshwater-Cultured Pearls by X-Ray Absorption Spectroscopy" *Journal of Applied Spectroscopy* 82. 4 (Sep 2015): 677-680.
- Nakseedee, P., Tanboonchuy, V., Pimpha, N., Khemthong, P., Liao, C.H. and Grisdanurak, N. "Arsenic Removal by Nanoiron Coupled with Gas Bubbling System" *Journal of the Taiwan Institute of Chemical Engineers* 47 (Feb 2015): 182-189.
- Nilmoung, S., Kidkhunthod, P., Pinitsoontorn, S., Rujirawat, S., Yimnirun, R. and Maensiri, S. "Fabrication, Structure, and Magnetic Properties of Electrospun Carbon/Cobalt Ferrite (C/CoFe₂O₄) Composite Nanofibers" *Applied Physics Letter* 119. 1 (Apr 2015): 141-154.
- Osakoo, N., Henkel, R., Loiha, S., Roessner, F. and Wittayakun, J. "Effect of Support Morphology and Pd Promoter on Co/SBA-15 for Fischer-Tropsch Synthesis" *Catalysis Communications* 56 (Nov 2014): 168-173.

14. Osakoo, N., Henkel, R., Loiha, S., Roessner, F. and Wittayakun, J. "Comparison of PdCo/SBA-15 Prepared by Co-Impregnation and Sequential" *Catalysis Communications* 66 (Jun 2015): 73-78.
15. Ozkendir, O. M. "Electronic and Crystal Structure Study of Erbium Doped TiBO₃" *International Journal of Metallurgy and Metal Physics* 1 (2015).
16. Phumying, S., Phokha, S. and Maensiri, S. "Structure and Magnetic properties of Mn-doped CoFe₂O₄ Nanoparticles Prepared by Solvothermal Route" *Journal of Superconductivity and Novel Magnetism* 27. 11 (Nov 2014): 2573-2579.
17. Pimprom, S., Sriboonkham, K., Dittanet, P., Föttinger, K., Rupprechter, G. and Kongkachuichay, P. "Synthesis of Copper–Nickel/SBA-15 from Rice Husk Ash Catalyst for Dimethyl Carbonate Production from Methanol and Carbon Dioxide" *Journal of Industrial and Engineering Chemistry* 31 9(2015): 156-166.
18. Pinitsoontorn, S., Prasoetsopha, N., Srepusharawoot, P., Bootchanont, A., Kidkhunthod, P., Kamwanna, T., Amornkitbamrung, V., Kurosaki, K. and Yamanaka, S. "Local Structure Determination of Substitutional Elements in Ca₃Co₄ xM_xO₉ (M^{1/4}Fe, Cr, Ga) Using X-ray Absorption Spectroscopy" *Physica Status Solidi A* 211. 8 (2014): 1732-1739. Use BL5.2, BL8, CMP
19. Poochai, C., Veerasai, W., Somsook, E. and Dangtip, S. "The Influence of Copper in Dealloyed Binary Platinum-Copper Electrocatalysts on Methanol Electrooxidation Catalytic Activities" *Materials Chemistry and Physics* 163 (Aug 2015): 317-330.
20. Ravel, B., Carr, G. L., Hauzenberger, C. A. and Klysubun, W. "X-ray and Optical Spectroscopic Study of the Coloration of Red Glass Used in 19th Century Decorative Mosaics at the Temple of the Emerald Buddha" *The Journal of Cultural Heritage* 16. 3 (May-Jun 2015): 315-321.
21. Sigircik, G., Erken, O., Tuken, T., Gumus, C., Ozkendir, O. M. and Ufuktepe, Y. "Electrosynthesis of ZnO Nanorods and Nanotowers: Morphology and X-ray Absorption Near Edge Spectroscopy Studies" *Applied Surface Science* 340 (2015): 1-8.
22. Tangchareon, T., Kongmark, C. and Pecharapa, W. "Synchrotron X-Ray Absorption Spectroscopy Study of the Local Atomic Structures and Cation Ordering in Perovskite- and Spinel-Type Zinc Stannate Synthesized by Co-Precipitation Method" *Journal of Molecular Structure* 1102 (2015): 95-100.
23. Tanggarnjanavalukul, C., Donphai, W., Witoon, T., Chareonpanich, M. and Limtrakul, J. "Deactivation of Nickel Catalysts in Methane Cracking Reaction: Effect of Bimodal Meso–Macropore Structure of Silica Support" *Chemical Engineering Journal* 262 (Feb 2015): 364-371.
24. Unruan, S., Srilomsak, S., Priya, S., Jantaratana, P., Rujirawat, S. and Yimnirun, R. "Local Structure Investigation and Properties of Mn-doped BiFeO₃–BaTiO₃ Ceramics" *Ceramics International* 41. 3 (Apr 2015); 4087-4092.
25. Werner, F. and Prietzel, J. "Standard Protocol and Quality Assessment of Soil Phosphorus Speciation by P K-Edge XANES Spectroscopy" *Environmental Science & Technology* 49 (2015): 10521-10528.
26. Worayingyong, A., Sang-urai, S., Smith, M. F., Maensiri, S. and Seraphin, S. "Effects of Cerium Dopant Concentration on Structural Properties and Photocatalytic Activity of Electrospun Ce-doped TiO₂ Nanofibers" *Applied Physics A* 2014 DOI 10.1007/s00339-014-8501-5 Use BL8, BL7.3 เดิม
27. Zuo, M., Renman, G., Gustafsson, J. P. and Renman, A. "Phosphorus Removal Performance and Speciation in Virgin and Modified Argon Oxygen Decarburisation Slag Designed for Wastewater Treatment" *Water Research* 87 (2015): 271-281.

IR end station 4 articles

1. Chonanant, C., Bambery, K. R., Jearanaikoon, N., Chio-Srichan, S., Limpai boon, T., Tobin, M. J., Heraud, P., Jearanaikoon, P. "Discrimination of Micromass-Induced Chondrocytes from Human Mesenchymal Stem Cells by Focal Plane Array-Fourier Transform Infrared Microspectroscopy" *Talanta* 130 (Dec 2014): 39-48.
2. Intuyod, K., Priprem, A., Limphirat, W., Charoensuk, L., Pinlaor, P., Pairojkul, C., Lertrat, K. and Pinlaor, S. "Anti-Inflammatory and Anti-Periductal Fibrosis Effects of an Anthocyanin Complex in *Opisthorchis Viverrini*-Infected Hamsters" *Food and Chemical Toxicology* 74 (Dec 2014): 206-215.

3. Plaimee, P., Weerapreeyakul, N., Thumanu, K., Tanthanuch, W. and Barusrux, S. "Melatonin Induces Apoptosis through Biomolecular Changes, in SK-LU-1 Human Lung Adenocarcinoma Cells" *Cell Proliferation* 47 (Dec 2014): 564-577.
4. Siriwong, S., Pimchan, T., Naknarong, W. and Eumkeb, G. "Mode of Action and Synergy of Ceftazidime and Baicalein Against Streptococcus Pyogenes" *Tropical Journal of Pharmaceutical Research* 14 (Apr 2015): 641-648.

MX end station 3 articles

1. Chitnumsub, P., Jaruwat, A., Riengrunroj, P., Ittarat, W., Noytanom, K., Oonant, W., Vanichthanankul, J., Chuankhayan, P., Maenpuen, S., Chen, C. J. Chaiyen, P., Yuthavonga, Y. Leartsakulpanich, U. "Structures of Plasmodium Vivax Serine Hydroxymethyltransferase: Implications for Ligand-Binding Specificity and Functional Control" *Acta Crystallographica Section D* 70 (2014): 3177-3186.
2. Srisucharitpanit, K., Yao, M., Promdonkoy, B., Chimnarong, S., Tanaka, I. and Boonserm, P. "Crystal Structure of BinB: A Receptor Binding Component of the Binary Toxin from *Lysinibacillus sphaericus*" *Protein: Structure, Function, and Bioinformatics* 82. 10 (Oct 2014): 2703-2712.
3. Chimnarong, S., Sitthiroongruang, J., Srisucharitpanit, K., Srisaisup, M., Ketterman, A. J. and Boonserm, P. "The Crystal Structure of JNK from *Drosophila Melanogaster* reveals an Evolutionarily Conserved Topology with that of Mammalian JNK Proteins" *BMC Structural Biology* 15 (2015):

Computer Materials Physics 2 articles

1. Pandech, N., Sarasamak, K. and Limpijumnong, S. "Elastic Properties of Perovskite $ATiO_3$ ($A = Be, Mg, Ca, Sr, \text{ and } Ba$) and $PbBO_3$ ($B = Ti, Zr, \text{ and } Hf$): First Principles Calculations" *Journal of Applied Physics* 117 (2015): 174108.
2. Pinitsoontorn, S., Prasoetsopha, N., Srepusharawoot, P., Bootchanont, A., Kidkhunthod, P., Kamwanna, T., Amornkitbamrung, V., Kurosaki, K. and Yamanaka, S. "Local Structure Determination of Substitutional Elements in $Ca_3Co_4 xMxO_9$ ($M = \frac{1}{4}Fe, Cr, Ga$) Using X-ray Absorption Spectroscopy" *Physica Status Solidi A* 211. 8 (2014): 1732-1739. Use BL5.2, BL8, CMP