

# List of Publications (2008)

## SCI Publications based on TLS Experiments

1. C.-I. Liu, G. Y. Liu, Y. Song, F. Yin, M. E. Hensler, W.-Y. Jeng, V. Nizet, A. H.-J. Wang, and E. Oldfield, "A Cholesterol Biosynthesis Inhibitor Blocks *Staphylococcus aureus* Virulence", SCIENCE **319**, 1391 (2008). (I.F.=26.372) #
2. F. C. Hsu, J. Y. Luo, K. W. Yeh, T. K. Chen, T. W. Huang, P. M. Wu, Y. C. Lee, Y. L. Huang, Y. Y. Chu, D. C. Yan, and M. K. Wu, "Superconductivity in the PbO-type Structure  $\alpha$ -FeSe", P. NATL. ACAD. SCI. USA **105**, 14262 (2008). (I.F.=9.598) #
3. S. K. Lee, J. F. Lin, Y. Q. Cai, N. Hiraoka, P. J. Eng, T. Okuchi, H. K. Mao, Y. Meng, M. Y. Hu, P. Chow, J. Shu, B. Li, H. Fukui, B. H. Lee, H. N. Kim, and C. S. Yoo, "X-ray Raman Scattering Study of  $MgSiO_3$  Glass at High Pressure: Implication for Trichustered  $MgSiO_3$  Melt in Earth's Mantle", P. NATL. ACAD. SCI. USA **105**, 7925 (2008). (I.F.=9.598) +
4. H.-C. Wang, H.-C. Wang, T.-P. Ko, Y.-M. Lee, J.-H. Leu, C.-H. Ho, W.-P. Huang, C.-F. Lo, and A. H.-J. Wang, "White Spot Syndrome Virus Protein ICP11: A Histone-binding DNA Mimic That Disrupts Nucleosome Assembly", P. NATL. ACAD. SCI. USA **105**, 20758 (2008). (I.F.=9.598) #
5. M.-Y. Chiu, U. S. Jeng, C.-H. Su, K. S. Liang, and K.-H. Wei, "Simultaneous Use of Small- and Wide-angle X-ray Techniques to Analyze Nanometerscale Phase Separation in Polymer Heterojunction Solar Cells", ADV. MATER. **20**, 2573 (2008). (I.F.=8.191) +
6. M. S. Seehra, P. Dutta, S. Neeleshwar, Y.-Y. Chen, C. L. Chen, S. W. Chou, C. C. Chen, C.-L. Dong, and C.-L. Chang, "Size-controlled Ex-nihilo Ferromagnetism in Capped CdSe Quantum Dots", ADV. MATER. **20**, 1656 (2008). (I.F.=8.191) #
7. I. P. Chang, K. C. Hwang, and C. S. Chiang, "Preparation of Fluorescent Magnetic Nanodiamonds and Cellular Imaging", J. AM. CHEM. SOC. **130**, 15476 (2008). (I.F.=7.885) #
8. H. Kung, S. M. Wu, Y. J. Wu, Y. W. Yang, and C. M. Chiang, "Tracking the Chemistry of Unsaturated  $C_3H_3$  Groups Adsorbed on a Silver Surface: Propargyl-Allenyl-Acetylide Triple Bond Migration, Self-hydrogenation, and Carbon-Carbon Bond Formation", J. AM. CHEM. SOC. **130**, 10263 (2008). (I.F.=7.885) +
9. H. H. G. Tsai, G. L. Jheng, and H. M. Kao, "Direct Evidence for Interactions Between Acidic Functional Groups and Silanols in Cubic Mesoporous Organosilicas", J. AM. CHEM. SOC. **130**, 11566 (2008). (I.F.=7.885) #
10. T. H. Lee, J. C. A. Huang, G. L. Pakhomov, T. F. Guo, T. C. Wen, Y. S. Huang, C. C. Tsou, C. T. Chung, Y. C. Lin, and Y. J. Hsu, "Organic-oxide Cathode Buffer Layer in Fabricating High-performance Polymer Light-emitting Diodes", ADV. FUNCT. MATER. **18**, 3036 (2008). (I.F.=7.496) #
11. I. F. Li, C.-H. Su, H.-S. Sheu, H.-C. Chiu, Y.-W. Lo, W.-T. Lin, J.-H. Chen, and C.-S. Yeh, "Gd<sub>2</sub>O(CO<sub>3</sub>)<sub>2</sub>•H<sub>2</sub>O Particles and Corresponding Gd<sub>2</sub>O<sub>3</sub>: Synthesis and Applications of Magnetic Resonance Contrast Agents and Template Particles for Hollow Spheres and Hybrid Composites", ADV. FUNCT. MATER. **18**, 766 (2008). (I.F.=7.496) +
12. W. Y. Jeng, T. P. Ko, C. I. Liu, R. T. Guo, C. L. Liu, H. L. Shr, and A. H. J. Wang, "Crystal Structure of IcaR, a Repressor of the TetR Family Implicated in Biofilm Formation in *Staphylococcus Epidermidis*", NUCLEIC ACIDS RES. **36**, 1567 (2008). (I.F.=6.954) #
13. C. L. Li, W. Z. Yang, Y. P. Chen, and H. S. Yuan, "Structural and Functional Insights Into Human Tudor-SN, a Key Component Linking RNA Interference and Editing", NUCLEIC ACIDS RES. **36**, 3579 (2008). (I.F.=6.954) #
14. K. H. Tang, M. Niebuhr, C. S. Tung, H. C. Chan, C. C. Chou, and M. D. Tsai, "Mismatched dNTP Incorporation by DNA Polymerase  $\beta$  Does Not Proceed via Globally Different Conformational Pathways", NUCLEIC ACIDS RES. **36**, 2948 (2008). (I.F.=6.954) #
15. F. C. Chou, M. W. Chu, G. J. Shu, F. T. Huang, W. W. Pai, H. S. Sheu, and P. A. Lee, "Sodium Ion Ordering and Vacancy Cluster Formation in  $Na_xCoO_2(x=0.71$  and  $0.84$ ) Single Crystals by Synchrotron X-ray Diffraction", PHYS. REV. LETT. **101**, 127404 (2008). (I.F.=6.944) +
16. R. Hambach, C. Giorgetti, N. Hiraoka, Y. Q. Cai, F. Sottile, A. G. Marinopoulos, F. Bechstedt, and L. Reining, "Anomalous Angular Dependence of the Dynamic Strucutre Factor Near Bragg Reflections: Graphite", PHYS. REV. LETT. **101**, 266406 (2008). (I.F.=6.944) +
17. P. Hansmann, A. Severing, Z. Hu, M. W. Haverkort, C. F. Chang, S. Klein, A. Tanaka, H. H. Hsieh, H. J. Lin, C. T. Chen, B. Fak, P. Lejay, and L. H. Tjeng, "Determining the Crystal-field Ground State in Rare Earth Heavy Fermion Materials Using Soft-x-ray Absorption Spectroscopy", PHYS. REV. LETT. **100**, 066405 (2008). (I.F.=6.944) +

18. M. A. Hossain, Z. Hu, M. W. Haverkort, T. Burnus, C. F. Chang, S. Klein, J. D. Denlinger, H.-J. Lin, C.-T. Chen, R. Mathieu, Y. Kaneko, Y. Tokura, S. Satow, Y. Yoshida, H. Takagi, A. Tanaka, I. S. Elfimov, G. A. Sawatzky, L. H. Tjeng, and A. Damascelli, "Crystal-field Level Inversion in Lightly Mn-doped  $Sr_3Ru_2O_7$ ", PHYS. REV. LETT. **101**, 016404 (2008). (I.F.=6.944) +
19. S. W. Huang, D. J. Huang, J. Okamoto, C. Y. Mou, W. B. Wu, K. W. Yeh, C. L. Chen, M. K. Wu, H. C. Hsu, F. C. Chou, and C. T. Chen, "Magnetic Ground State and Transition of a Quantum Multiferroic  $LiCu_2O_2$ ", PHYS. REV. LETT. **101**, 077205 (2008). (I.F.=6.944) \*
20. I. Jarrige, J. P. Rueff, S. R. Shieh, M. Taguchi, Y. Ohishi, T. Matsumura, C. P. Wang, H. Ishii, N. Hiraoka, and Y. Q. Cai, "Pressure-induced Valence Anomaly in  $TmTe$  Probed by Resonant Inelastic X-ray Scattering", PHYS. REV. LETT. **101**, 127401 (2008). (I.F.=6.944) \*
21. D.-A. Luh, C.-M. Cheng, C.-T. Tsai, K.-D. Tsuei, and J.-M. Tang, "Transition from Disorder to Order in Thin Metallic Films Studied with Angle-resolved Photoelectron Spectroscopy", PHYS. REV. LETT. **100**, 027603 (2008). (I.F.=6.944) +
22. C. L. Wu, H. M. Lee, C. T. Kuo, C. H. Chen, and S. Gwo, "Absence of Fermi-level Pinning at Cleaved Nonpolar  $InN$  Surfaces", PHYS. REV. LETT. **101**, 106803 (2008). (I.F.=6.944) +
23. Z. Shi, W.-Z Yang, S. Lin-Chao, K.-F Chak, and H. S. Yuan, "Crystal Structure of *Escherichia Coli* PNPase: Central Channel Residues are Involved in Processive RNA Degradation", RNA **14**, 2361 (2008). (I.F.=5.84) #
24. Y. W. Chang, Y. J. Sun, C. Wang, and C. D. Hsiao, "Crystal Structures of the 70-kDa Heat Shock Proteins in Domain Disjoining Conformation", J. BIOL. CHEM. **283**, 15502 (2008). (I.F.=5.581) #
25. Y. Y. Chen, H. M. Chu, K. T. Pan, C. H. Teng, D. L. Wang, A. H. J. Wang, K. H. Khoo, and T. C. Meng, "Cysteine S-nitrosylation Protects Protein-tyrosine Phosphatase 1B Against Oxidation-induced Permanent Inactivation", J. BIOL. CHEM. **283**, 35265 (2008). (I.F.=5.581) #
26. C. H. Huang, A. Winkler, C. L. Chen, W. L. Lai, Y. C. Tsai, P. Macheroux, and S. H. Liaw, "Functional Roles of the 6-S-cysteinyl, 8α-N1-histidyl FAD in Glucooligosaccharide Oxidase from *Acremonium strictum*", J. BIOL. CHEM. **283**, 30990 (2008). (I.F.=5.581) #
27. Y.-C. Li, C.-W. Chiang, H.-C. Yeh, P.-Y. Hsu, F. G. Whitby, L.-H. Wang, and N.-L. Chan, "Structures of Prostacyclin Synthase and Its Complexes with Substrate Analog and Inhibitor Reveal a Ligand-specific Heme Conformation Change", J. BIOL. CHEM. **283**, 2917 (2008). (I.F.=5.581) #
28. T.-F. Wang, L.-T. Chen, and A. H. J. Wang, "Right or Left Turn? RecA Family Protein Filaments Promote Homologous Recombination Through Clockwise Axial Rotation", BIOESSAYS **30**, 48 (2008). (I.F.=5.402) #
29. Y. J. Chen, M. Nuevo, T. S. Yih, W. H. Ip, H. S. Fung, C. Y. Cheng, H. R. Tsai, and C. Y. R. Wu, "Amino Acids Produced From the Ultraviolet/Extreme-ultraviolet Irradiation of Naphthalene in a  $H_2O+NH_3$  Ice Mixture", MON. NOT. R. ASTRON. SOC. **384**, 605 (2008). (I.F.=5.249) +
30. Y. H. Wu, T. P. Ko, R. T. Guo, S. M. Hu, L. M. Chuang, and A. H. J. Wang, "Structural Basis for Catalytic and Inhibitory Mechanisms of Human Prostaglandin Reductase PTGR2", STRUCTURE **16**, 1714 (2008). (I.F.=5.231) #
31. M. L. Ho, K. Y. Chen, L. C. Wu, J. Y. Shen, G. H. Lee, M. J. Ko, C. C. Wang, J. F. Lee, and P. T. Chou, "Diaza-18-crown-6 Appended Dual 7-hydroxyquinolines; Mercury Ion Recognition in Aqueous Solution", CHEM. COMMUN. 2438 (2008). (I.F.=5.141) +
32. Y. C. Tsai, P. Y. Wang, K. M. Lin, S. A. Chen, and J. M. Chen, "Synthesis and Reactions of  $\beta$ -diketiminato Divanadium(I) Inverted-sandwich Complexes", CHEM. COMMUN. 205 (2008). (I.F.=5.141) +
33. C.-M. Yang, C.-Y. Lin, Y. Sakamoto, W.-C. Huang, and L.-L. Chang, "2D-rectangular c2mm Mesoporous Silica Nanoparticles with Tunable Elliptical Channels and Lattice Dimensions", CHEM. COMMUN. 5969 (2008). (I.F.=5.141) #
34. C. K.-M. Chen, M. P. Hudock, Y. Zhang, R.-T. Guo, R. Cao, J. H. No, P.-H. Liang, T.-P. Ko, T.-H. Chang, S. C. Chang, Y. Song, J. Axelson, A. Kumar, A. H.-J. Wang, and E. Oldfield, "Inhibition of Geranylgeranyl Diphosphate Synthase by Bisphosphonates: A Crystallographic and Computational Investigation", J. MED. CHEM. **51**, 5594 (2008). (I.F.=4.895) #
35. S. Y. Chen, C. Y. Tang, W. T. Chuang, J. J. Lee, Y. L. Tsai, J. C. C. Chan, C. Y. Lin, Y. C. Liu, and S. Cheng, "A Facile Route to Synthesizing Functionalized Mesoporous SBA-15 Materials with Platelet Morphology and Short Mesochannels", CHEM. MATER. **20**, 3906 (2008). (I.F.=4.883) +

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37. H. A. Lin, C. H. Liu, W. C. Huang, S. C. Liou, M. W. Chu, C. H. Chen, J. F. Lee, and C. M. Yang, "Novel Magnetically Separable Mesoporous  $Fe_2O_3$ @SBA-15 Nanocomposite with Fully Open Mesochannels for Protein Immobilization", CHEM. MATER. **20**, 6617 (2008). (I.F.=4.883) +
38. S. H. Liu, W. Y. Yu, C. H. Chen, A. Y. Lo, B. J. Hwang, S. H. Chien, and S. B. Liu, "Fabrication and Characterization of Well-dispersed and Highly Stable PtRu Nanoparticles on Carbon Mesoporous Material for Applications in Direct Methanol Fuel Cell", CHEM. MATER. **20**, 1622 (2008). (I.F.=4.883) #
39. Y. Tanaka, M. Karppinen, T. Kobayashi, T. S. Chan, R. S. Liu, J. M. Chen, and H. Yamauchi, "Quantitative XANES Spectroscopy Study on the Prototype Hole- and Electron-doped High-Tc Superconductor Systems,  $(La,Sr)_2CuO_4$  and  $(Nd,Ce)_2CuO_4$ ", CHEM. MATER. **20**, 5414 (2008). (I.F.=4.883) +
40. Y. J. Shiu, U. S. Jeng, Y. S. Huang, Y. H. Lai, H. F. Lu, C. T. Liang, I. J. Hsu, C. H. Su, C. Su, I. Chao, A. C. Su, and S. H. Lin, "Global and Local Structural Changes of Cytochrome c and Lysozyme Characterized by a Multigroup Unfolding Process", BIOPHYS. J. **94**, 4828 (2008). (I.F.=4.627) \*
41. C.-N. Chen, K.-H. Chin, A. H.-J. Wang, and S.-H. Chou, "The First Crystal Structure of Gluconolactonase Important in the Glucose Secondary Metabolic Pathways", J. MOL. BIOL. **384**, 604 (2008). (I.F.=4.472) #
42. W. Chuenchor, S. Pengthaisong, R. C. Robinson, J. Yuvaniyama, W. Oonanant, D. R. Bevan, A. Esen, C. J. Chen, R. Opasiri, J. Svasti, and J. R. K. Cairns, "Structural Insights into Rice  $BGluI$   $\beta$ -Glucosidase Oligosaccharide Hydrolysis and Transglycosylation", J. MOL. BIOL. **377**, 1200 (2008). (I.F.=4.472) +
43. W. T. Kuo, K. H. Chin, W. T. Lo, A. H. J. Wang, and S. H. Chou, "Crystal Structure of the C-terminal Domain of a Flagellar Hook-capping Protein from *Xanthomonas Campestris*", J. MOL. BIOL. **381**, 189 (2008). (I.F.=4.472) #
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46. C.-M. Huang, K.-H. Wei, U.-S. Jeng, and H.-S. Sheu, "Pseudo-single-crystalline Self-assembled Structure Formed from Hydrophilic CdSe and Hydrophobic Au Nanoparticles in the Polystyrene and Poly(4-vinylpyridine) Blocks, Respectively, of a Polystyrene-*b*-poly(4-vinylpyridine) Diblock Copolymer", MACROMOLECULES **41**, 6876 (2008). (I.F.=4.411) +
47. C. H. Su, U. Jeng, S. H. Chen, S. J. Lin, Y. T. Ou, W. T. Chuang, and A. C. Su, "Structural Evolution of Nanograins During Cold Crystallization of Poly(9,9-di-*n*-octyl-2,7-fluorene) as Revealed via in Situ Small-angle X-ray Scattering/Wide-angle X-ray Scattering/Differential Scanning Calorimetry", MACROMOLECULES **41**, 7630 (2008). (I.F.=4.411) \*
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50. T. T. Lu, C. C. Tsou, H. W. Huang, I. J. Hsu, J. M. Chen, T. S. Kuo, Y. Wang, and W. F. Liaw, "Anionic Roussin's Red Esters(RREs) syn-lanti-[ $Fe(\mu\text{-SET})(NO)_2$ ]<sub>2</sub>: the Critical Role of Thiolate Ligands in Regulating the Transformation of RREs into Dinitrosyl Iron Complexes and the Anionic RREs", INORG. CHEM. **47**, 6040 (2008). (I.F.=4.123) +
51. J. M. Tsai, P. T. Tu, T. S. Chan, and K. H. Lii, "Synthesis and Characterization of Open-framework Niobium Silicates:  $Rb_2(Nb_2O_4)(Si_2O_6)\cdot H_2O$  and the Dehydrated Phase  $Rb_2(Nb_2O_4)(Si_2O_6)$ ", INORG. CHEM. **47**, 11223 (2008). (I.F.=4.123) +
52. H. T. Kuo, T. S. Chan, N. C. Bagkar, G. Q. Liu, R. S. Liu, C. H. Shen, D. S. Shy, X. K. Xing, and J. M. Chen, "Effect of  $Co_2P$  on Electrochemical Performance of  $Li(Mn_{0.35}Co_{0.2}Fe_{0.45})PO_4/C$ ", J. PHYS. CHEM. B **112**, 8017 (2008). (I.F.=4.086) +

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54. R. S. Liu, H. C. Lai, N. C. Bagkar, H. T. Kuo, H. M. Chen, J. F. Lee, H. J. Chung, S. M. Chang, and B. J. Weng, "Investigation on Mechanism of Catalysis by  $\text{Pt-LiCoO}_2$  for Hydrolysis of Sodium Borohydride Using X-ray Absorption", *J. PHYS. CHEM. B* **112**, 4870 (2008). (I.F.=4.086) +
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56. N. S. Chong, N. T. Suen, T. L. Chou, and H. Y. Tang, "Electrococrystallization and Characterization of Polymorphic Forms of Barium Metaplumbate", *CRYST. GROWTH DES.* **8**, 1779 (2008). (I.F.=4.046) +
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58. M.-C. Yang, H. H. Guan, J.-M. Yang, C. N. Ko, M. Y. Liu, Y. H. Lin, Y. C. Huang, C. J. Chen, and S. J. T. Mao, "Rational Design for Crystallization of  $\beta$ -lactoglobulin and Vitamin  $D_3$  Complex: Revealing a Secondary Binding Site", *CRYST. GROWTH DES.* **8**, 4268 (2008). (I.F.=4.046) \*
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62. W. S. Hu, S. Z. Weng, Y. T. Tao, H. J. Liu, and H. Y. Lee, "Oriented Growth of Rubrene Thin Films on Aligned Pentacene Buffer Layer and Its Anisotropic Thin-film Transistor Characteristics", *ORG. ELECTRON.* **9**, 385 (2008). (I.F.=3.879) +
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備註: 1. TLS 為 Taiwan Light Source 的縮寫，指國家同步輻射研究中心現有光源。

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