

List of Publications (2007)

SCI Publications based on TLS Experiments

1. R. T. Guo, R. Cao, P. H. Liang, T. P. Ko, T. H. Chang, M. P. Hudock, W. Y. Jeng, C. K. M. Chen, Y. Zhang, Y. Song, C. J. Kuo, F. Yin, E. Oldfield, and A. H. J. Wang, "Bisphosphonates Target Multiple Sites in Both Cis- and Trans-prenyltransferases", P. NATL. ACAD. SCI. USA **104**, 10022 (2007). (I.F.=9.643) #
2. I. S. Elfimov, A. Rusydi, S. I. Csizar, Z. Hu, H. H. Hsieh, H. J. Lin, C. T. Chen, R. Liang, and G. A. Sawatzky, "Magnetizing Oxides by Substituting Nitrogen for Oxygen", PHYS. REV. LETT. **98**, 137202 (2007). (I.F.=7.702) +
3. J. Okamoto, D. J. Huang, C. Y. Mou, K. S. Chao, H. J. Lin, S. Park, S. W. Cheong, and C. T. Chen, "Symmetry of Multiferroicity in a Frustrated Magnet $TbMn_2O_5$ ", PHYS. REV. LETT. **98**, 157202 (2007). (I.F.=7.702) *
4. B. P. Xie, K. Yang, D. W. Shen, J. F. Zhao, H. W. Ou, J. Wei, S. Y. Gu, M. Arita, S. Qiao, H. Namatame, M. Taniguchi, N. Kaneko, H. Eisaki, K. D. Tsuei, C. M. Cheng, I. Vobornik, J. Fujii, G. Rossi, Z. Q. Yang, and D. L. Feng, "High-energy Scale Revival and Giant Kink in the Dispersion of a Cuprate Superconductor", PHYS. REV. LETT. **98**, 147001 (2007). (I.F.=7.702) +
5. K. Yang, L. P. Chen, Y. Q. Cai, N. Hiraoka, S. Li, J. F. Zhao, D. W. Shen, H. F. Song, H. Tian, L. H. Bai, Z. H. Chen, Z. G. Shuai, and D. L. Feng, "Inelastic X-ray Scattering Study of Exciton Properties in an Organic Molecular Crystal", PHYS. REV. LETT. **98**, 036404 (2007). (I.F.=7.702) +
6. C.-A. Dai, W.-C. Yen, Y.-H. Lee, C.-C. Ho, and W.-F. Su, "Facile Synthesis of Well-defined Block Copolymers Containing Regioregular Poly(3-hexyl thiophene) via Anionic Macroinitiation Method and Their Self-assembly Behavior", J. AM. CHEM. SOC. **129**, 11036 (2007). (I.F.=7.696) #
7. I. J. Hsu, C. H. Hsieh, S. C. Ke, K. A. Chiang, J. M. Lee, J. M. Chen, L. Y. Jang, G. H. Lee, Y. Wang, and W. F. Liaw, "New Members of A Class of Iron-thiolate-nitrosyl Compounds: Trinuclear Iron-thiolate-nitrosyl Complexes Containing Fe_3S_6 Core", J. AM. CHEM. SOC. **129**, 1151 (2007). (I.F.=7.696) +
8. C. H. Su, H. S. Sheu, C. Y. Lin, C. C. Huang, Y. W. Lo, Y. C. Pu, J. C. Weng, D. B. Shieh, J. H. Chen, and C. S. Yeh, "Nanoshell Magnetic Resonance Imaging Contrast Agents", J. AM. CHEM. SOC. **129**, 2139 (2007). (I.F.=7.696) +
9. Y.-C. Tasi, P. Y. Wang, S. A. Chen, and J. M. Chen, "Inverted-sandwich Dichromium(I) Complexes Supported by Two β -diketiminates: a Multielectron Reductant and Syntheses of Chromium Dioxo and Imido", J. AM. CHEM. SOC. **129**, 8066 (2007). (I.F.=7.696) +
10. D. Y. Wang, C. H. Chen, H. C. Yen, Y. L. Lin, P. Y. Huang, B. J. Hwang, and C. C. Chen, "Chemical Transformation from $FePt$ to $Fe_{1-x}PtM_x$ ($M= Ru, Ni, Sn$) Nanocrystals by a Cation Redox Reaction: X-ray Absorption Spectroscopic Studies", J. AM. CHEM. SOC. **129**, 1538 (2007). (I.F.=7.696) +
11. S. C. Chien, H. H. Chen, H. C. Chen, Y. L. Yang, H. F. Hsu, T. L. Shih, and J. J. Lee, "Stable, Low-temperature Discotic Nematic Superstructures by Incorporating a Laterally Substituted Sidearm in Hexakis(phenylethynyl)Benzene Discogens", ADV. FUNCT. MATER. **17**, 1896 (2007). (I.F.=6.779) +
12. Y.-F. Huang, A. R. Inigo, C.-C. Chang, K.-C. Li, C.-F. Liang, C.-W. Chang, T.-S. Lim, S.-H. Chen, J. D. White, U.-S. Jeng, A.-C. Su, Y.-S. Huang, K.-Y. Peng, S.-A. Chen, W.-W. Pai, C.-H. Lin, A. R. Tameev, S. V. Novikov, A. V. Vannikov, and W. Fann, "Nanostructure-dependent Vertical Charge Transport in MEH-PPV Films", ADV. FUNCT. MATER. **17**, 2902 (2007). (I.F.=6.779) +
13. C. P. Li, C. H. Wu, K. H. Wei, J. T. Sheu, J. Y. Huang, U. S. Jeng, and K. S. Liang, "The Effect of Nanoscale Confinement on the Collective Electron Transport Behavior in Au Nanoparticles Self-assembled in a Nanostructured Polystyrene-block-poly(4-vinylpyridine) Diblock Copolymer Ultra-thin Film", ADV. FUNCT. MATER. **17**, 2283 (2007). (I.F.=6.779) +
14. L.-T. Chen, T.-P. Ko, Y.-C. Chang, K.-A. Lin, C.-S. Chang, A. H.-J. Wang, and T.-F. Wang, "Crystal Structure of the Left-handed Archaeal RadA Helical Filament: Identification of a Functional Motif for Controlling Quaternary Structures and Enzymatic Functions of RecA Family Proteins", NUCLEIC ACIDS RES. **35**, 1787 (2007). (I.F.=6.317) #
15. K.-L. Tsai, Y.-J. Sun, C.-Y. Huang, J.-Y. Yang, M.-C. Hung, and C.-D. Hsiao, "Crystal Structure of the Human FOXO3a-DBD/DNA Complex Suggests the Effects of Post-translational Modification", NUCLEIC ACIDS RES. **35**, 6984 (2007). (I.F.=6.317) #

16. M. C. Liang, B. M. Cheng, H. C. Lu, H. K. Chen, M. S. Alam, Y. P. Lee, and Y. L. Yung, "Isotopic Fractionation of Nitrogen in Ammonia in the Troposphere of Jupiter", *ASTROPHYS. J.* **657**, L117 (2007). (I.F.=6.119) +
17. C. L. Hung, J. H. Liu, W. C. Chiu, S. W. Huang, J. K. Hwang, and W. C. Wang, "Crystal Structure of *Helicobacter Pylori* Formamidase *AmiF* Reveals a Cysteine-glutamate-lysine Catalytic Triad", *J. BIOL. CHEM.* **282**, 12220 (2007). (I.F.=5.808) #
18. H.-Y. Sun, S.-W. Lin, T.-P. Ko, J.-F. Pan, C.-L. Liu, C.-N. Lin, A. H.-J. Wang, and C.-H. Lin, "Structure and Mechanism of *Helicobacter Pylori* Fucosyltransferase: A Basis for Lipopolysaccharide Variation and Inhibitor Design", *J. BIOL. CHEM.* **282**, 9973 (2007). (I.F.=5.808) #
19. Y.-H. Yeh, M.-M. Kesavulu, H.-M. Li, S.-Z. Wu, Y.-J. Sun, E.-H. E. Konozy, and C.-D. Hsiao, "Dimerization Is Important for the GTPase Activity of Chloroplast Translocon Components *atToc33* and *psToc159*", *J. BIOL. CHEM.* **282**, 13845 (2007). (I.F.=5.808) #
20. H. Wang, Y. C. Liaw, D. Stone, O. Kalyuzhniy, I. Amiraslanov, S. Tuve, C. L. M. J. Verlinde, D. Shayakhmetov, T. Stehle, S. Roffler, and A. Lieber, "Identification of CD46 Binding Sites Within the Adenovirus Serotype 35 Fiber Knob", *J. VIROL.* **81**, 12785 (2007). (I.F.=5.341) #
21. Y. C. Hsu, Y. T. Hsu, H. Y. Hsu, and C. M. Yang, "Facile Synthesis of Mesoporous Silica SBA-15 with Additional Intra-particle Porosities", *CHEM. MATER.* **19**, 1120 (2007). (I.F.=5.104) #
22. C. C. Wu, K. B. Chen, C. S. Lee, T. M. Chen, and B. M. Cheng, "Synthesis and VUV Photoluminescence Characterization of $(Y,Gd)(V,P)O_4$: Eu^{3+} as a Potential Red-emitting PDP Phosphor", *CHEM. MATER.* **19**, 3278 (2007). (I.F.=5.104) +
23. B.-J. Hwang, L. S. Sarma, G.-R. Wang, C.-H. Chen, D.-G. Liu, H.-S. Sheu, and J.-F. Lee, "Heat-induced Alterations in the Surface Population of Metal Sites in Bimetallic Nanoparticles", *CHEMISTRY-EUR. J.* **13**, 6255 (2007). (I.F.=5.015) +
24. P.-C. Wu, W.-S. Wang, Y.-T. Huang, H.-S. Sheu, Y.-W. Lo, T.-L. Tsai, D.-B. Shieh, and C.-S. Yeh, "Porous Iron Oxide Based Nanorods Developed as Delivery Nanocapsules", *CHEMISTRY-EUR. J.* **13**, 3878 (2007). (I.F.=5.015) +
25. C.-Y. Chen, C.-K. Chang, Y.-W. Chang, S.-C. Sue, H.-I. Bai, L. Riang, C.-D. Hsiao, and T.-H. Huang, "Structure of the SARS Coronavirus Nucleocapsid Protein RNA-binding Dimerization Domain Suggests a Mechanism for Helical Packaging of Viral RNA", *J. MOL. BIOL.* **368**, 1075 (2007). (I.F.=4.89) #
26. H. Huang and H. S. Yuan, "The Conserved Asparagine in the HNH Motif Serves an Important Structural Role in Metal Finger Endonucleases", *J. MOL. BIOL.* **368**, 812 (2007). (I.F.=4.89) #
27. C. C. Wang, S. M. Tseng, S. Y. Lin, F. C. Liu, S. C. Dai, G. H. Lee, W. J. Shih, and H. S. Sheu, "Assemblies of Two Mixed-ligand Coordination Polymers with Two-dimensional Metal-organic Frameworks Constructed from $M(II)$ Ions with Croconate and 1,2-Bis-(4-pyridyl)ethylene ($M=Cd$ and Zn)", *CRYST. GROWTH DES.* **7**, 1783 (2007). (I.F.=4.339) +
28. C.-C. Wang, C.-T. Kuo, J.-C. Yang, G.-H. Lee, W.-J. Shih, and H.-S. Sheu, "Assemblies of Two New Metal-Organic Frameworks Constructed from $Cd(II)$ with 2,2'-Bipyrimidine and Cyclic Oxocarbon Dianions $C_nO_n^{2-}$ ($n = 4, 5$)", *CRYST. GROWTH DES.* **7**, 1476 (2007). (I.F.=4.339) +
29. M. J. Wang, N. T. Suen, J. Y. Ho, H. S. Sheu, H. H. Chong, H. Y. Lin, and H. Y. Tang, "Synthesis and Structure Transformation of Ion-Exchanged Metal Cobalt Oxides", *CRYST. GROWTH DES.* **7**, 2738 (2007). (I.F.=4.339) +
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31. H. L. Chen, J. S. Lu, C. H. Yu, C. L. Yeh, U. S. Jeng, and W. C. Chen, "Tetragonally Packed Cylinder Structure Via Hierarchical Assembly of Comb-coil Diblock Copolymer", *MACROMOLECULES* **40**, 3271 (2007). (I.F.=4.277) +
32. S. H. Chen, Y. H. Wu, C. H. Su, U. Jeng, C. C. Hsieh, A. C. Su, and S. A. Chen, "Cold Crystallization of Poly(*9,9-di-n-octyl-2,7-fluorene*)", *MACROMOLECULES* **40**, 5353 (2007). (I.F.=4.277) +
33. R.-M. Ho, T.-C. Wang, C.-C. Lin, and T.-L. Yu, "Mesoporous Carbons from Poly(acrylonitrile)-*b*-Poly(ϵ -caprolactone) Block Copolymerse", *MACROMOLECULES* **40**, 2814 (2007). (I.F.=4.277) #
34. J. Y. Hsu, I. F. Hsieh, B. Nandan, F. C. Chiu, J. H. Chen, U. S. Jeng, and H. L. Chen, "Crystallization Kinetics and Crystallization-induced Morphological Formation in the Blends of Poly(ϵ -caprolactone)-block-polybutadiene and Polybutadiene Homopolymer", *MACROMOLECULES* **40**, 5014 (2007). (I.F.=4.277) +
35. C. M. Huang, K. H. Wei, U. S. Jeng, and K. S. Liang, "Structural Evolution of Poly(Styrene-*b*-4-vinylpyridine) Diblock Copolymer/Gold Nanoparticle Mixtures from Solution to Solid State", *MACROMOLECULES* **40**, 5067 (2007). (I.F.=4.277) +

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37. T. S. Chan, R. S. Liu, C. C. Yang, W. H. Li, Y. H. Lien, C. Y. Huang, and J. F. Lee, "Chemical Size Effect on the Magnetic and Electrical Properties in the $(Tb_{1-x}Eu_x)MnO_3$ ($0 \leq x \leq 1.0$) System", *J. PHYS. CHEM. B* **111**, 2262 (2007). (I.F.=4.115) +
38. W. J. Chang, C. C. Hsieh, T. Y. Chung, S. Y. Hsu, K. H. Wu, T. M. Uen, J. Y. Lin, J. J. Lin, C. H. Hsu, Y. K. Kuo, H. L. Liu, M. H. Hsu, Y. S. Gou, and J. Y. Juang, "Fabrication and Low Temperature Thermoelectric Properties of Na_xCoO_2 ($x=0.68$ and 0.75) Epitaxial Films by the Reactive Solid-phase Epitaxy", *APPL. PHYS. LETT.* **90**, 061917 (2007). (I.F.=3.977) +
39. Y. H. Chang, Y. L. Soo, W. C. Lee, M. L. Huang, Y. J. Lee, S. C. Weng, W. H. Sun, M. Hong, J. Kwo, S. F. Lee, J. M. Ablett, and C. C. Kao, "Observation of Room Temperature Ferromagnetic Behavior in Cluster-free, Co Doped HfO_2 Films", *APPL. PHYS. LETT.* **91**, 082504 (2007). (I.F.=3.977) #
40. J. M. Chen, C. K. Chen, T. L. Chou, I. Jarrire, H. Ishii, K. T. Lu, Y. Q. Cai, K. S. Ling, J. M. Lee, S. W. Huang, T. J. Yang, C. C. Shen, R. S. Liu, J. Y. Lin, H. T. Jeng, and C. C. Kao, "Resonant X-ray Emission Spectroscopy of Multiferroic $TbMnO_3$ ", *APPL. PHYS. LETT.* **91**, 054108 (2007). (I.F.=3.977) *
41. J. W. Chiou, H. M. Tsai, C. W. Pao, K. P. K. Kumar, J. H. Chen, D. C. Ling, F. Z. Chien, W. F. Pong, M. H. Tsai, J. J. Wu, M. H. Yang, S. C. Liu, I. H. Hong, C. H. Chen, H. J. Lin, and J. F. Lee, "Role of Valence-band Co 3d States on Ferromagnetism in $Zn_{1-x}Co_xO$ Nanorods", *APPL. PHYS. LETT.* **90**, 062103 (2007). (I.F.=3.977) +
42. J. W. Chiou, S. C. Ray, H. M. Tsai, C. W. Pao, F. Z. Chien, W. F. Pong, M. H. Tsai, J. J. Wu, C. H. Tseng, C. H. Chen, J. F. Lee, and J. H. Guo, "Charge Transfer in Nanocrystalline-Au/ ZnO Nanorods Investigated by X-ray Spectroscopy and Scanning Photoelectron Microscopy", *APPL. PHYS. LETT.* **90**, 192112 (2007). (I.F.=3.977) +
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50. C.-J. Liu, C.-Y. Liao, J.-S. Wang, P. K. Nayak, Z.-R. Lin, and H.-S. Sheu, "Thermopower and Co K-edge Studies of Potassium Sodium Cobalt Oxyhydrates $Na_{0.33}K_{0.02}(H_2O)_{1.33}CoO_{2-\delta}$ and $Na_{0.07}K_{0.21}(H_2O)_{0.63}CoO_{2-\delta}$ ", *APPL. PHYS. LETT.* **91**, 142509 (2007). (I.F.=3.977) +
51. S. H. Liu, H. S. Hsu, C. R. Lin, C. S. Lue, and J. C. A. Huang, "Effects of Hydrogenated Annealing on Structural Defects, Conductivity, and Magnetic Properties of V-doped ZnO Powders", *APPL. PHYS. LETT.* **90**, 222505 (2007). (I.F.=3.977) #
52. C. Y. Peng, F. Yuan, C. Y. Yu, P. S. Kuo, M. H. Lee, S. Maikap, C.-H. Hsu, and C. W. Liu, "Hole Mobility Enhancement of $Si_{0.2}Ge_{0.8}$ Quantum Well Channel on Si", *APPL. PHYS. LETT.* **90**, 012114 (2007). (I.F.=3.977) +

53. S. C. Ran, C. W. Pao, H. M. Tsai, J. W. Chiou, W. F. Pong, C. W. Chen, M. H. Tsai, P. Papakonstantinou, L. C. Chen, K. H. Chen, and W. G. Gaham, "Electronic Structures and Bonding Properties of Chlorine-treated Nitrogenated Carbon Nanotubes: X-ray Absorption and Scanning Photoelectron Microscopy Studies", APPL. PHYS. LETT. **90**, 192107 (2007). (I.F.=3.977) #
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62. Z. K. Yang, W. C. Lee, Y. J. Lee, M. L. Huang, M. Hong, K. L. Yu, B.-H. Lin, M.-T. Tang, C.-H. Hsu, and J. Kwo, "Structural and Compositional Investigation of Yttrium-doped HfO₂ Films Epitaxially Grown on Si (111)", APPL. PHYS. LETT. **91**, 202909 (2007). (I.F.=3.977) +
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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。

2. I.F. (Impact Factor) 以 2006 JCR (Journal Citation Reports) 為資料依據。

3. “*” 表中心主導性論文; “+” 表中心合作性論文; “#” 表中心協助性論文

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