

List of Publications (2010)

Publications based on TLS Experiments

主導性之 SCI 論文

1. Y. J. Wu(吳宇中), M. Y. Lin(林孟擘), S. L. Chou(周勝隆), H. F. Chen(陳慧芬), H. C. Lu(盧曉琪), H. K. Chen(陳宏凱), and B. M. Cheng(鄭炳銘), “*Photolysis of Ethyne in Solid Neon and Synthesis of Long-chain Carbon Clusters with Vacuum-ultraviolet Light*”, *Astrophys. J.* **721**, 856 (2010). (I.F.=7.364)
2. Y.-L. Chan(陳悅來), Y.-J. Hung(洪雅娟), C.-H. Wang(王家豪), Y.-C. Lin(林楹璋), C.-Y. Chiu(邱清源), Y.-L. Lai(賴玉鈴), H.-T. Chang(張旭庭), C.-H. Lee(李志浩), Y. J. Hsu(許瑤真), and D. H. Wei(魏德新), “*Magnetic Response of an Ultrathin Cobalt Film in Contact with an Organic Pentacene Layer*”, *Phys. Rev. Lett.* **104**, 177204 (2010). (I.F.=7.328)
3. W. W. Pai, H. T. Jeng, C.-M. Cheng(鄭澄懋), C.-H. Lin, X. Xiao, A. Zhao, X. Zhang, G. Xu, X. Q. Shi, M. A. V. Hove, C.-S. Hsue, and K.-D. Tsuei(崔古鼎), “*Optimal Electron Doping of a C_{60} Monolayer on Cu(111) via Interface Reconstruction*”, *Phys. Rev. Lett.* **104**, 036103 (2010). (I.F.=7.328)
4. F. H. Lai, W. N. Su, L. S. Sarma, D. G. Liu(劉定國), C. A. Hsieh(謝承安), J. F. Lee(李志甫), and B. J. Hwang(黃炳照), “*Chemical Dealloying Mechanism of Bimetallic Pt-Co Nanoparticles and Enhancement of Catalytic Activity Toward Oxygen Reduction*”, *Chem.-Eur. J.* **16**, 4602 (2010). (I.F.=5.382)
5. Y.-C. Hsieh(謝殷程), M.-Y. Liu(劉明毅), V. C.-C. Wang, Y.-L. Chiang, E.-H. Liu, W.-G. Wu, S. I. Chan, and C.-J. Chen(陳俊榮), “*Structural Insights into the Enzyme Catalysis from Comparison of Three Forms of Dissimilatory Sulphite Reductase from *Desulfovibrio Gigas**”, *Mol. Microbiol.* **78**, 1101 (2010). (I.F.=5.361)
6. C.-Y. Chang, Y.-C. Hsieh, T.-Y. Wang, Y.-C. Chen, Y.-K. Wang, T.-W. Chiang, Y.-J. Chen, C.-H. Chang, C.-J. Chen(陳俊榮), and T.-K. Wu, “*Crystal Structure and Mutational Analysis of Aminoacylhistidine Dipeptidase from *Vibrio Alginolyticus* Reveal a New Architecture of M20 Metallopeptidases*”, *J. Biol. Chem.* **285**, 39500 (2010). (I.F.=5.328)
7. P. Chuankhayan(邱康妍), C.-Y. Hsieh, Y.-C. Huang, Y.-Y. Hsieh, H.-H. Guan, Y.-C. Hsieh, Y.-C. Tien, C.-D. Chen, C.-M. Chiang, and C.-J. Chen(陳俊榮), “*Crystal Structures of *Aspergillus Japonicus* Fructosyltransferase Complex with Donor/Acceptor Substrates Reveal Complete Subsites in the Active Site for Catalysis*”, *J. Biol. Chem.* **285**, 23251 (2010). (I.F.=5.328)
8. Y.-C. Hsieh(謝殷程), Y.-J. Wu, T.-Y. Chiang, C.-Y. Kuo, K. L. Shrestha, C.-F. Chao, Y.-C. Huang, P. Chuankhayan(邱康妍), W.-G. Wu, Y.-K. Li, and C.-J. Chen(陳俊榮), “*Crystal Structures of *Bacillus Cereus* NCTU2 Chitinase Complexes with Chito oligomers Reveal Novel Substrate Binding for Catalysis: a Chitinase Without Chitin Binding and Insertion Domains*”, *J. Biol. Chem.* **285**, 31603 (2010). (I.F.=5.328)
9. Y.-C. Liang and H.-Y. Lee(李信義), “*Growth of Epitaxial Zirconium-doped Indium Oxide (222) at Low Temperature by rf Sputtering*”, *CrystEngComm* **12**, 3172 (2010). (I.F.=4.183)
10. H. C. Lu(盧曉琪), H. K. Chen(陳宏凱), H. F. Chen(陳慧芬), B. M. Cheng(鄭炳銘), and J. F. Ogilvie, “*Absorption Cross Section of Molecular Oxygen in the Transition $E^3 \Sigma_u^-, v=0 - X^3 \Sigma_g^-, v=0$ at 38K*”, *Astron. Astrophys.* **520**, A19 (2010). (I.F.=4.179)
11. W. H. Chang, P. Chang, T. Y. Lai, Y. J. Lee, J. Kwo, C.-H. Hsu(徐嘉鴻), and M. Hong, “*Structural Characteristics of Nanometer Thick Gd_2O_3 Films Grown on GaN (0001)*”, *Cryst. Growth Des.* **10**, 5117 (2010). (I.F.=4.162)
12. C.-S. Ku(古慶順), H.-Y. Lee(李信義), J.-M. Huang, and C.-M. Lin, “*Epitaxial Growth of m -plane ZnO Thin Films on (1010) Sapphire Substrate by Atomic Layer Deposition with Interrupted Flow*”, *Cryst. Growth Des.* **10**, 1460 (2010). (I.F.=4.162)
13. S. H. Lee(李世煌), “*Dynamics of Multi-channel Dissociation of Tetrahydrofuran Photoexcited at 193 nm: Distributions of Kinetic Energy, Angular Anisotropies, and Branching Ratios*”, *Phys. Chem. Chem. Phys.* **12**, 2655 (2010). (I.F.=4.116)
14. B. J. Hwang(黃炳照), C. Y. Chen, M. Y. Cheng, R. Santhanam, and K. Ragaven, “*Mechanism Study of Enhanced Electrochemical Performance of ZrO_2 -coated $LiCoO_2$ in High Voltage Region*”, *J. Power Sources* **195**, 4255 (2010). (I.F.=3.792)

15. H.-H. Guan(管泓翔), K.-S. Goh, F. Davamani, P.-L. Wu(吳伯龍), Y.-W. Huang, J. Jeyakanthan(傑肯特), W.-G. Wu(吳文桂), and C.-J. Chen(陳俊榮), “Structures of Two Elapid Snake Venom Metalloproteases with Distinct Activities Highlight the Disulfide Patterns in the D Domain of ADAMalysin Family Proteins”, *J. Struct. Biol.* **169**, 294 (2010). (I.F.=3.673)
16. S. W. Chen(陳世偉), J. M. Lee(李振民), K. T. Lu(盧桂子), C. W. Pao(包志文), J. F. Lee(李志甫), T. S. Chan(詹丁山), and J. M. Chen(陳錦明), “Band-gap Narrowing of TiO_2 Doped with Ce Probed with X-ray Absorption Spectroscopy”, *Appl. Phys. Lett.* **97**, 012104 (2010). (I.F.=3.554)
17. C.-S. Ku(古慶順), J.-M. Huang, C.-Y. Cheng(鄭景元), C.-M. Lin, and H.-Y. Lee(李信義), “Annealing Effect on the Optical Response and Interdiffusion of n-ZnO/p-Si(111) Heterojunction Grown by Atomic Layer Deposition”, *Appl. Phys. Lett.* **97**, 181915 (2010). (I.F.=3.554)
18. Y. H. Hsieh, S. J. Liu, H. W. Chen, Y. K. Lin, K. S. Liang(梁耕三), and L. J. Lai(賴麗珍), “Highly Sensitive Rare Cell Detection Based on Quantum Dot Probe Fluorescence Analysis”, *Anal. Bioanal. Chem.* **396**, 1135 (2010). (I.F.=3.48)
19. J. M. Chen(陳錦明), J. M. Lee(李振民), S. W. Huang(黃詩雯), K. T. Lu(盧桂子), H. T. Jeng, C. K. Chen(陳啟科), S. C. Haw, T. L. Chou(周大磊), S. A. Chen(陳興安), N. Hiraoka(平岡望), H. Ishii(石井啟文), K. D. Tsuei(崔古鼎), and T. J. Yang, “Intra- and Intersite Electronic Excitations in Multiferroic $TbMnO_3$ Probed by Resonant Inelastic X-ray Scattering”, *Phys. Rev. B* **82**, 094442 (2010). (I.F.=3.475)
20. J. M. Chen(陳錦明), Z. Hu, H. T. Jeng, Y. Y. Chin, J. M. Lee(李振民), S. W. Huang(黃詩雯), K. T. Lu(盧桂子), C. K. Chen(陳啟科), S. C. Haw, T. L. Chou(周大磊), H. J. Lin(林宏基), C. C. Shen, R. S. Liu, A. Tanaka, L. H. Tjeng, and C. T. Chen(陳建德), “Strong Orbital Polarization in Orthorhombic $DyMnO_3$: a Combined X-ray Linear Dichroism and Ab Initio Electronic Structure Study”, *Phys. Rev. B* **81**, 201102(R) (2010). (I.F.=3.475)
21. H. C. Hsu, W. L. Lee, J.-Y. Lin, H. L. Liu, and F. C. Chou(周方正), “Disrupted Long-range Spin-spiral Ordering and Electric Polarization in the Zn-substituted Quantum Helimagnet $LiCu_{2-x}Zn_xO_2$ ”, *Phys. Rev. B* **81**, 212407 (2010). (I.F.=3.475)
22. H. C. Hsu, J.-Y. Lin, W. L. Lee, M.-W. Chu, T. Imai, Y. J. Kao, C. D. Hu, H. L. Liu, and F. C. Chou(周方正), “Nonmagnetic Impurity Perturbation to the Quasi-two-dimensional Quantum Helimagnet $LiCu_2O_2$ ”, *Phys. Rev. B* **82**, 094450 (2010). (I.F.=3.475)
23. H.-J. Lin(林宏基), Y. Y. Chin, Z. Hu, G. J. Shu, F. C. Chou(周方正), H. Ohta, K. Yoshimura, S. Hébert, A. Maignan, A. Tanaka, L. H. Tjeng, and C. T. Chen(陳建德), “Local Orbital Occupation and Energy Levels of Co in Na_xCoO_2 : A Soft X-ray Absorption Study”, *Phys. Rev. B* **81**, 115138 (2010). (I.F.=3.475)
24. D.-A. Luh(陸大安), K.-C. Liu, C.-M. Cheng(鄭澄懋), and K.-D. Tsuei(崔古鼎), “Characterizing the Wetting of Metallic Thin Films with Angle-resolved Photoelectron Spectroscopy”, *Phys. Rev. B* **82**, 075434 (2010). (I.F.=3.475)
25. J. Okamoto(岡本淳), D. J. Huang(黃迪靖), K. S. Chao, S. W. Huang, C.-H. Hsu(徐嘉鴻), A. Fujimori, A. Masuno, T. Terashima, M. Takano, and C. T. Chen(陳建德), “Quasi-two-dimensional d-spin and p-hole Ordering in the Three-dimensional Perovskite $La_{1/3}Sr_{2/3}FeO_3$ ”, *Phys. Rev. B* **82**, 132402 (2010). (I.F.=3.475)
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27. S.-J. Tang(唐述中), T.-R. Chang, C.-C. Huang, C.-Y. Lee, C.-M. Cheng(鄭澄懋), K.-D. Tsuei(崔古鼎), H.-T. Jeng, and C.-Y. Mou, “Dispersive Resonance Bands within the Space-charge Layer of a Metal-semiconductor Junction”, *Phys. Rev. B* **81**, 245406 (2010). (I.F.=3.475)
28. W. B. Wu(吳文斌), D. J. Huang(黃迪靖), J. Okamoto, S. W. Huang(黃詩雯), Y. Sekio, T. Kimura, and C. T. Chen(陳建德), “Multiferroic Nanoregions and a Memory Effect in Cupric Oxide”, *Phys. Rev. B* **81**, 172409 (2010). (I.F.=3.475)
29. C.-H. Wang(王嘉興), Y.-C. Cheng, J.-W. Su, L.-J. Fan(范良任), P.-Y. Huang, M.-C. Chen, and Y.-W. Yang(楊耀文), “Origin of High Field-effect Mobility in Solvent-vapor Annealed Anthradithiophene Derivative”, *Org. Electron.* **11**, 1947 (2010). (I.F.=3.262)
30. J. Jeyakanthan(傑肯特), R. M. Drevland, D. R. Gayathri, D. Velmurugan, A. Shinkai, S. Kuramitsu, S. Yokoyama, and D. E. Graham, “Substrate Specificity Determinants of the Methanogen Hemoconitase Enzyme: Structure and Function of the Small Subunit”, *Biochemistry* **49**, 2687 (2010). (I.F.=3.226)

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32. J. M. Chen(陳錦明), J. M. Lee(李振民), T. L. Chou(周大磊), S. A. Chen(陳興安), S. W. Huang(黃詩雯), H. T. Jeng, K. T. Lu(盧桂子), T. H. Chen(陳天豪), Y. C. Liang(梁育嘉), S. W. Chen(陳世偉), W. T. Chuang(莊偉綜), H.-S. Sheu(許火順), N. Hiraoka(平岡望), H. Ishii(石井啟文), K. D. Tsuei(崔古鼎), E. Huang, C. M. Lin, and T. J. Yang, “*Pressure-dependent Electronic Structures in Multiferroic DyMnO₃: a Combined Lifetime-broadening-suppressed X-ray Absorption Spectroscopy and Ab Initio Electronic Structure Study*”, *J. Chem. Phys.* **133**, 154510 (2010). (I.F.=3.093)
33. U. S. Jeng(鄭有舜), C. H. Su(蘇秋瑋), C. J. Su(蘇群仁), K. F. Liao(廖桂芬), W. T. Chung(莊偉綜), Y. H. Lai, J. W. Chang, Y. J. Chen, Y. S. Huang(黃玉山), M. T. Lee(李明道), K. L. Yu(于冠禮), J. M. Lin, D. G. Liu(劉定國), C. F. Chang(張家峯), C. Y. Liu(劉金炎), C. H. Chang(張劍虹), and K. S. Liang(梁耕三), “*A Small/Wide-angle X-ray Scattering Instrument for Structural Characterization of Air-liquid Interfaces, Thin Films and Bulk Specimens*”, *J. Appl. Crystallogr.* **43**, 110 (2010). (I.F.=3.018)
34. K. T. Lu(盧桂子), J. M. Chen(陳錦明), J. M. Lee(李振民), S. C. Haw, S. A. Chen(陳興安), Y. C. Liang(梁育嘉), and S. W. Chen(陳世偉), “*State-selective Enhanced Production of Positive Ions and Excited Neutral Fragments of Gaseous CH₂Cl₂ Following Cl2p Core-level Photoexcitation*”, *Phys. Rev. A* **82**, 033421 (2010). (I.F.=2.866)
35. D.-J. Huang(黃迪靖), J. Okamoto(岡本淳), S.-W. Huang, and C.-Y. Mou, “*Magnetic Transitions of Multiferroic Frustrated Magnets Revealed by Resonant Soft X-ray Magnetic Scattering*”, *J. Phys. Soc. JPN.* **79**, 011009 (2010). (I.F.=2.572)
36. H.-C. Lu, W.-T. Whang, and B.-M. Cheng(鄭炳銘), “*Switchable Structural Modification Accompanying Altered Optical Properties of a Zwitterionic Polysquaraine*”, *Chem. Phys. Lett.* **500**, 267 (2010). (I.F.=2.291)
37. Y. J. Wu(吳宇中), H. F. Chen(陳慧芬), S. L. Chou(周勝隆), M. Y. Lin(林孟擘), and B. M. Cheng(鄭炳銘), “*Vacuum-ultraviolet Photolysis of H₃CF in Solid Neon: Infrared Spectra of HCF and CF⁺*”, *Chem. Phys. Lett.* **497**, 12 (2010). (I.F.=2.291)
38. J. Jeyakanthan(傑肯特), S. P. Kanaujia, Y. Nishida, N. Nakagawa, S. Praveen, A. Shinkai, S. Kuramitsu, S. Yokoyama, and K. Sekar, “*Free and ATP-bound Structures of Ap₄A Hydrolase from Aquifex Aeolicus V5*”, *Acta Crystallogr. D* **66**, 116 (2010). (I.F.=2.257)
39. C. Y. Lin, W.-R. Liu(劉維仁), C. S. Chang, C.-H. Hsu(徐嘉鴻), W. F. Hsieh, and F. S.-S. Chien, “*Effect of Threading Dislocations on Local Contacts in Epitaxial ZnO Films*”, *J. Electrochem. Soc.* **157**, H268 (2010). (I.F.=2.241)
40. Y. J. Lee, C. H. Lee, L. T. Tung, T. H. Chiang, T. Y. Lai, J. Kwo, C.-H. Hsu(徐嘉鴻), and M. Hong, “*Al₂O₃/Ga₂O₃(Gd₂O₃) Passivation on In_{0.20}Ga_{0.80}As/GaAs-Structural Intactness with High-temperature Annealing*”, *J. Phys. D- Appl. Phys.* **43**, 135101 (2010). (I.F.=2.083)
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42. C. S. Ku(古慶順), H. Y. Lee(李信義), J. M. Huang, and C. M. Lin, “*Epitaxial Growth of ZnO Films at Extremely Low Temperature by Atomic Layer Deposition with Interrupted Flow*”, *Mater. Chem. Phys.* **120**, 236 (2010). (I.F.=2.015)
43. S.-H. Liu(劉思恒), Y.-H. Lin(林易弘), L.-J. Huang(黃良仁), S.-W. Luo(羅祥文), W.-L. Tsai, S.-Y. Chiang(江素玉), and H.-S. Fung(馮學深), “*Design and Construction of a Compact End-station at NSRRC for Circular-dichroism Spectra in the Vacuum-ultraviolet Region*”, *J. Synchrotron Radiat.* **17**, 761 (2010). (I.F.=1.994)
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45. Y.-T. Liu, S.-Y. Chen, and H.-Y. Lee(李信義), “*Characteristics of Highly Orientated BiFeO₃ Thin Films on a LaNiO₃-coated Si Substrate by RF Sputtering*”, *Thin Solid Films* **518**, 7412 (2010). (I.F.=1.727)
46. H.-C. Su(蘇暉家), J.-Y. Dai, Y.-F. Liao, Y.-H. Wu, J. C. A. Huang, and C.-H. Lee(李志浩), “*The Preparation of Zn-ferrite Epitaxial Thin Film from Epitaxial Fe₃O₄: ZnO Multilayers by Ion Beam Sputtering Deposition*”, *Thin Solid Films* **518**, 7275 (2010). (I.F.=1.727)

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48. T. H. Chang, B. Y. Shew(許博淵), C. Y. Wu, and N. C. Chen, "X-ray Microfabrication and Measurement of a Terahertz Mode Converter", *Rev. Sci. Instrum.* **81**, 054701 (2010). (I.F.=1.521)
49. Y. J. Lee, W. C. Lee, M. L. Huang, S. Y. Wu, C. W. Nieh, M. Hong, J. Kwo, and C.-H. Hsu(徐嘉鴻), "Lattice Strain and in Situ Chemical Depth Profiling of Nanometer-thick Molecular Beam Epitaxy Grown Y_2O_3 Epitaxial Films on Si (111)", *J. Vac. Sci. Technol. B* **28**, C3A17 (2010). (I.F.=1.46)
50. H.-S. Sheu(許火順), W.-J. Shih(施韋如), W.-T. Chuang(莊偉綜), I.-F. Li, and C.-S. Yeh, "Crystal Structure and Phase Transitions of $Gd(CO_3)OH$ Studied by Synchrotron Powder Diffraction", *J. Chin. Chem. Soc.-Taipei* **57**, 938 (2010). (I.F.=0.653)
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52. J. Jeyakanthan(傑肯特), S. Thamotharan, S. Panjekar, Y. Kitamura, N. Nakagawa, A. Shinkai, S. Kuramitsu, and S. Yokoyama, "Expression, Purification and X-ray Analysis of 1,3-propanediol dehydrogenase (Aq_1145) from *Aquifex Aeolicus* VF5", *Acta Crystallogr. F* **66**, 184 (2010). (I.F.=0.551)
53. N. Thamwiriya-sati, S. Sakdee, P. Chuankhayan(邱康妍), G. Katzenmeier, C.-J. Chen(陳俊榮), and C. Angsuthanasombat, "Crystallization and Preliminary X-ray Crystallographic Analysis of a Full-length Active Form of the Cry4Ba Toxin from *Bacillus Thuringiensis*", *Acta Crystallogr. F* **66**, 721 (2010). (I.F.=0.551)
54. C.-H. Chen, L. S. Sarma, D.-Y. Wang, F.-J. Lai, C.-C. A. Andra, S.-H. Chang, D.-G. Liu(劉定國), C.-C. Chen, and J.-F. Lee(李志甫), and B.-J. Hwang(黃炳照), "Platinum-decorated Ruthenium Nanoparticles for Enhanced Methanol Electrooxidation", *ChemCatChem* **2**, 159 (2010). (I.F.=0)

合作性之 SCI 論文

1. I. Grigoraviciute, M. Karppinen, T. S. Chan(詹丁山), R. S. Liu, J. M. Chen(陳錦明), O. Chmaissem, and H. Yamauchi, "Electronic Structures, Hole-doping, and Superconductivity of the $s=1, 2, 3,$ and 4 Members of the (Cu,Mo) -12s2 Homologous Series of Superconductive Copper Oxides", *J. Am. Chem. Soc.* **132**, 838 (2010). (I.F.=8.58)
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3. S.-F. Peng, C.-J. Su(蘇群仁), M.-C. Wei, C.-Y. Chen, Z.-X. Liao, P.-W. Lee, H.-L. Chen, and H.-W. Sung, "Effects of the Nanostructure of Dendrimer/DNA Complexes on Their Endocytosis and Gene Expression", *Biomaterials* **31**, 5660 (2010). (I.F.=7.365)
4. S.-H. Chang, W.-N. Su, M.-H. Yeh, C.-J. Pan, K.-L. Yu, D.-G. Liu(劉定國), J.-F. Lee(李志甫), and B.-J. Hwang(黃炳照), "Structural and Electronic Effects of Carbon-supported Pt_xPd_{1-x} Nanoparticles on the Electrocatalytic Activity of Oxygen-reduction Reaction and on Methanol Tolerance", *Chem.-Eur. J.* **16**, 11064 (2010). (I.F.=5.382)
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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 2009 JCR (Journal Citation Reports) 為資料依據。

3. 主導性論文指該論文中心同仁為第一作者或通訊作者; 合作性論文指該論文的作者群中有中心同仁; 協助性論文指該論文作者群中無中心同仁, 但該論文使用到同步輻射光源。

4. 資料更新日期: 2011.6.30.