

List of Publications (2009)

Publications based on TLS Experiments

主導性之 SCI 論文

1. W. H. Chang, C. H. Lee, Y. C. Chang, P. Chang, M. L. Huang, Y. J. Lee, C. H. Hsu(徐嘉鴻), J. M. Hong, C. C. Tsai, J. R. Kwo, and M. W. Hong , "Nanometer-thick Single-crystal Hexagonal Gd_2O_3 on GaN for Advanced Complementary Metal-oxide-semiconductor Technology", ADV. MATER. **21**, 4970 (2009) . (I.F.=8.191) *
2. Y. J. Choi, J. Okamoto, D. J. Huang(黃迪靖), K. S. Chao, H. J. Lin(林宏基), C. T. Chen(陳建德), M. V. Veenendaal, T. A. Kaplan, and S. W. Cheong, "Thermally or Magnetically Induced Polarization Reversal in the Multiferroic $CoCr_2O_4$ ", PHYS. REV. LETT. **102**, 067601 (2009). (I.F.=7.18) +
3. Y.-J. Wu(吳宇中), H.-F. Chen(陳慧芬), C. Camacho, H. A. Witek, S.-C. Hsu(徐聖權), M.-Y. Lin(林孟暉), S.-L. Chou(周勝隆), J. F. Ogilvie, and B.-M. Cheng(鄭炳銘), "Formation and Identification of Interstellar Molecule Linear C_5H from Photolysis of Methane Dispersed in Solid Neon", ASTROPHYS. J. **701**, 8 (2009). (I.F.=6.331) *
4. H.-S. Sheu(許火順), J.-F. Lee(李志甫), S.-G. Shyu, W.-W. Chou, and J.-R. Chang, "Sulfur Resistance Enhancement by Grafted TiO_2 in SiO_2 -supported Pd Catalysts: Role of Grafted TiO_2 and Genesis of Pd Clusters", J. CATAL. **266**, 15 (2009). (I.F.=5.167) *
5. W.-T. Chuang(莊偉綜), H.-S. Sheu(許火順), U.-S. Jeng(鄭有舜), H.-H. Wu, P.-D. Hong, and J.-J. Lee(李之釗), "Tetragonally Perforated Layer Structure via Columnar Ordering of 4'-(3,4,5-trioctyloxybenzoyloxy) Benzoic Acid in a Supramolecular Complex with Polystyrene-block-poly (4-vinylpyridine)", CHEM. MATER. **21**, 975 (2009). (I.F.=5.046) *
6. M. Li, Y.-S. Huang(黃玉山), U.-S. Jeng(鄭有舜), I.-J. Hsu, Y. S. Wu, Y.-H. Lai, C.-H. Su(蘇秋暉), J.-F. Lee(李志甫), Y. Wang, and C.-C. Chang, "Resonant X-ray Scattering and Absorption for the Global and Local Structures of Cu-modified Metallothioneins in Solution ", BIOPHYS. J. **97**, 609 (2009). (I.F.=4.683) *
7. J.-M. Lin, T.-L. Lin, U.-S. Jeng(鄭有舜), Z.-H. Huang, and Y.-S. Huang(黃玉山), "Aggregation Structure of Alzheimer Amyloid- β (1-40) Peptide with Sodium Dodecyl Sulfate as Revealed by Small-angle X-ray and Neutron Scattering", SOFT MATTER **5**, 3913 (2009). (I.F.=4.586) *
8. C. H. Su(蘇秋暉), U. Jeng(鄭有舜), S. H. Chen, C.-Y. Cheng(鄭景元), J.-J. Lee(李之釗), Y.-H. Lai(賴英煌), W. C. Su, J. C. Tsai, and A. C. Su, "Thermodynamic Characterization of Polymorphs in Bulk-crystallized Syndiotactic Polystyrene via Small/Wide-angle X-ray Scattering and Differential Scanning Calorimetry", MACROMOLECULES **42**, 4200 (2009). (I.F.=4.407) *
9. C. H. Su(蘇秋暉), U. Jeng(鄭有舜), S. H. Chen, S. J. Lin, W. R. Wu, W.-T. Chuang(莊偉綜), J. C. Tsai, and A. C. Su, "Nanograin Evolution in Cold Crystallization of Syndiotactic Polystyrene as Illustrated via In-situ Small/Wide-angle X-ray Scattering and Differential Scanning Calorimetry", MACROMOLECULES **42**, 6656 (2009). (I.F.=4.407) *
10. W. R. Liu, Y. H. Li, W. F. Hsieh, C. H. Hsu(徐嘉鴻), W. C. Lee, Y. J. Lee, M. Hong, and J. Kwo, "Domain Matching Epitaxial Growth of High-quality ZnO Film Using a Y_2O_3 Buffer Layer on Si(111)", CRYST. GROWTH DES. **9**, 239 (2009). (I.F.=4.215) *
11. S. Yang, B. H. Lin, W. R. Liu, J.-H. Lin, C.-S. Chang, C.-H. Hsu(徐嘉鴻), and W. F. Hsieh, "Structural Characteristics and Annealing Effect of ZnO Epitaxial Films Grown by Atomic Layer Deposition", CRYST. GROWTH DES. **9**, 5184 (2009). (I.F.=4.215) *
12. J. M. Chen(陳錦明), J. M. Lee(李振民), C. K. Chen(陳啓科), T. L. Chou(周大磊), K. T. Lu(盧桂子), S. C. Haw, K. S. Liang(梁耕三), C. T. Chen(陳建德), H. T. Jeng, S. W. Huang(黃詩斐), T. J. Yang, C. C. Shen, R. S. Liu, J. Y. Lin, and Z. Hu, "Bonding Anisotropy in Multiferroic $TbMnO_3$ Probed by Polarization Dependent X-ray Absorption Spectroscopy", APPL. PHYS. LETT. **94**, 044105 (2009). (I.F.=3.726) *
13. S. N. Hsiao, F. T. Yuan, H. W. Chang, H. W. Huang, S. K. Chen, and H. Y. Lee(李信義), "Effect of Initial Stress/Strain State on Order-disorder Transformation of FePt Thin Films", APPL. PHYS. LETT. **94**, 232505 (2009). (I.F.=3.726) *
14. M. L. Huang(黃懋霖), Y. C. Chang, Y. H. Chang, T. D. Lin, J. Kwo, and M. Hong, "Energy-band Parameters of Atomic Layer Deposited Al_2O_3 and HfO_2 on $In_xGa_{1-x}As$ ", APPL. PHYS. LETT. **94**, 052106 (2009). (I.F.=3.726) *

15. C. C. Kuo, W.-R. Liu(劉維仁), W. F. Hsieh, C.-H. Hsu(徐嘉鴻), H. C. Hsu, and L. C. Chen, "Crystal Symmetry Breaking of Wurtzite to Orthorhombic in Nonpolar α -ZnO Epifilms", APPL. PHYS. LETT. **95**, 011905 (2009). (I.F.=3.726) *
16. Y.-L. Chiang, Y.-C. Hsieh(謝殷程), J.-Y. Fang, E.-H. Liu, Y.-C. Huang(黃彥杰), P. Chuankhayan, J. Jeyakanthan, M.-Y. Liu(劉明毅), S. I. Chan, and C.-J. Chen(陳俊榮), "Crystal Structure of Adenylylsulfate Reductase from Desulfovibrio Gigas Suggests a Potential Self-regulation Mechanism Involving the C Terminus of the β -subunit", J. BACTERIOL. **191**, 7597 (2009). (I.F.=3.636) *
17. Y.-J. Wu(吳宇中), M.-Y. Lin(林孟暉), S.-C. Hsu, and B.-M. Cheng(鄭炳銘), "Infrared Absorption Spectra of t -HNOH Radicals Generated on VUV Irradiation of NO in Solid Hydrogen", CHEMPHYSCHM **10**, 901 (2009). (I.F.=3.636) *
18. K.-F. Hsu, S.-K. Hu, C.-H. Chen, M.-Y. Cheng, S.-Y. Tsay, T.-C. Chou, H.-S. Sheu(許火順), J.-F. Lee(李志甫), and B.-J. Hwang(黃炳照), "Formation Mechanism of LiFePO₄/C Composite Powders Investigated by X-ray Absorption Spectroscopy", J. POWER SOURCES **192**, 660 (2009). (I.F.=3.477) *
19. F.-J. Lai, L. S. Sarma, H.-L. Chou, 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), "Architecture of Bimetallic Pt_xCo_{1-x} Electrocatalysts for Oxygen Reduciton Reaction as Investigated by X-ray Absorption Spectroscopy", J. PHYS. CHEM. C **113**, 12674 (2009). (I.F.=3.396) *
20. Y.-C. Lin, H.-L. Chou, M.-C. Tsai, B.-J. Hwang(黃炳照), L. S. Sarma, Y.-C. Lee(李耀昌), and C.-I. Chen(陳慶仁), "Combined Experimental and Theoretical Investigation of Nanosized Effects of Pt Catalyst on Their Underlying Methanol Electro-oxidation Activity", J. PHYS. CHEM. C **113**, 9197 (2009). (I.F.=3.396) *
21. M.-F. Luo, M.-H. Ten, C.-C. Wang, W.-R. Lin, C.-Y. Ho, B.-W. Chang, C.-T. Wang, Y.-C. Lin(林楹璋), and Y.-J. Hsu(許瑤真), "Temperature-dependent Oxidation of Pt Nanoclusters on a Thin Film of Al₂O₃ on NiAl(100)", J. PHYS. CHEM. C **113**, 12419 (2009). (I.F.=3.396) *
22. M.-F. Luo, C.-C. Wang, G.-R. Hu, W.-R. Lin, C.-Y. Ho, Y.-C. Lin, and Y.-J. Hsu(許瑤真), "Active Alloying of Au with Pt in Nanoclusters Supported on a Thin Film of Al₂O₃/NiAl(100)", J. PHYS. CHEM. C **113**, 21054 (2009). (I.F.=3.396) *
23. A. N. Khan, P.-D. Hong, W.-T. Chuang(莊偉綜), and K.-S. Shih, "Effect of Uniaxial Drawing on the Structure and Glass Transition Behavior of Poly (Trimethylene 2,6-naphthalate)/Layered Clay Nanocomposites", POLYMER **50**, 6287 (2009). (I.F.=3.331) *
24. J. M. Chen(陳錦明), T. L. Chou(周大磊), J. M. Lee(李振民), S. A. Chen(陳興安), T. S. Chan(詹丁山), T. H. Chen(陳天豪), K. T. Lu(盧桂子), W. T. Chuang(莊偉綜), H.-S. Sheu(許火順), S. W. Chen(陳世偉), C. M. Lin, N. Hiraoka(平岡望), H. Ishii(石井啓文), K. D. Tsuei(崔古鼎), and T. J. Yang, "Pressure-induced Structural Distortion of TbMnO₃: a Combined X-ray Diffraction and X-ray Absorption Spectroscopy Study", PHYS. REV. B **79**, 165110 (2009). (I.F.=3.322) *
25. S. H. Lee(李世煌), W. K. Chen(陳偉侃), and W. J. Huang(黃文建), "Exploring the Dynamics of Reactions of Oxygen Atoms in States 3P and 1D with Ethene at Collision Energy 3 kcal Mol⁻¹", J. CHEM. PHYS. **130**, 054301 (2009). (I.F.=3.149) *
26. S.-H. Lee(李世煌), "Dynamics of Multidissociation Paths of Acetaldehyde Photoexcited at 157 nm: Branching Ratios, Distributions of Kinetic Energy, and Angular Anisotropies of Products", J. CHEM. PHYS. **131**, 174312 (2009). (I.F.=3.149) *
27. S.-H. Lee(李世煌), "The Photodissociation of Oxetane at 193 nm as the Reverse of the Paterno-buchi Reaction", J. CHEM. PHYS. **131**, 224309 (2009). (I.F.=3.149) *
28. K. T. Lu(盧桂子), J. M. Chen(陳錦明), J. M. Lee(李振民), S. C. Haw(何樹智), T. L. Chou(周大磊), S. A. Chen(陳興安), and T. H. Chen(陳天豪), "Core-level Anionic Photofragmentation of Gaseous CCl₄ and Solid-state Analogs", PHYS. REV. A **80**, 033406 (2009). (I.F.=2.908) *
29. L.-J. Lai(賴麗珍), Y.-W. Yang(楊耀文), Y.-K. Lin(林耀光), L.-L. Huang(黃麗玲), and Y.-H. Hsieh(謝怡慧), "Surface Characterization of Immunosensor Conjugated with Gold Nanoparticles Based on Cyclic Voltammetry and X-ray Photoelectron Spectroscopy", COLLOID. SURFACES B **68**, 130 (2009). (I.F.=2.593) *
30. T. S. Chan(詹丁山), C. C. Lin, R. S. Liu, R.-J. Xie, N. Hirosaki, and B.-M. Cheng(鄭炳銘), "Photoluminescent and Thermal Stable Properties of Tb³⁺-doped Ca- α -SiAlON under VUV Excitation", J. ELECTROCHEM. SOC. **156**, J189 (2009). (I.F.=2.437) *

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32. C.-J. Liu, C.-H. Wang, C.-L. Wang, Y. Hwu(胡宇光), C.-Y. Lin, and G. Margaritondo, "Simple Dose Rate Measurements for a Very High Synchrotron X-ray Flux", J. SYNCHROTRON RADIAT. **16**, 395 (2009). (I.F.=2.333) *
33. T.-W. Pi(皮敦文), G.-R. Lee, C.-H. Wei(魏竟軒), W.-Y. Chen, and C.-P. Cheng, "Interfacial Electronic Structure of Copper Phthalocyanine on a Gold Surface Studied by Synchrotron Radiation Photoemission", J. APPL. PHYS. **106**, 113716 (2009). (I.F.=2.201) *
34. S.-W. Huang(黃詩斐), H.-T. Jeng, J.-Y. Lin, W. J. Chang, J. M. Chen(陳錦明), G. H. Lee, H. Berger, H. D. Yang, and K. S. Liang(梁耕三), "Electronic Structure of Pyrochlore $Cd_2Re_2O_7$ ", J. PHYS.-CONDENS. MAT. **21**, 195602 (2009). (I.F.=1.9) *
35. C.-S. Ku(古慶順), J.-M. Huang, C.-M. Lin, and H.-Y. Lee(李信義), "Fabrication of Epitaxial ZnO Films by Atomic-layer Deposition with Interrupted Flow", THIN SOLID FILMS **518**, 1373 (2009). (I.F.=1.884) *
36. C.-J. Liu, T.-Y. Yang, C.-H. Wang, C.-C. Chien, S.-T. Chen, C.-L. Wang, W.-H. Leng, Y. Hwu(胡宇光), H.-M. Lin, Y.-C. Lee(李耀昌), C.-L. Cheng, J. H. Je, and G. Margaritondo, "Enhanced Photocatalysis, Colloidal Stability and Cytotoxicity of Synchrotron X-ray Synthesized Au/TiO₂ Nanoparticles", MATER. CHEM. PHYS. **117**, 74 (2009). (I.F.=1.799) *
37. B.-M. Cheng(鄭炳銘), C.-K. Duan, and P. A. Tanner, "Vacuum Ultraviolet and Visible Spectra of Eu³⁺ in Y₂O₂S and Eu₂O₂S", OPT. MATER. **31**, 902 (2009). (I.F.=1.714) *
38. R. Nithya, V. S. Sastry, P. Paul, T. C. Han, J. G. Lin, and F. C. Chou(周方正), "Effect of Hole Doping and Antiferromagnetic Coupling on the Itinerant Ferromagnetism of SrRuO₃ through Cu Substitution at Ru Site", SOLID STATE COMMUN. **149**, 1674 (2009). (I.F.=1.557) *
39. N. Hiraoka(平岡望), H. Okamura, H. Ishii, I. Jarrige, K. D. Tsuei(崔古鼎), and Y. Q. Cai(蔡永強), "Charge Transfers and dd Excitations in Transition Metal Oxides: q-dependent Dielectric Function Study by Inelastic X-ray Scattering and Optical Reflectivity Measurements", EUR. PHYS. J. B **70**, 157 (2009). (I.F.=1.356) *
40. S. N. Hsiao, S. K. Chen, T. S. Chin, Y. W. Hsu, H. W. Huang, F. T. Yuan, H. Y. Lee(李信義), and W. M. Liao, "Early-stage Ordering in In-situ Annealed Fe₅₁Pt₄₉ Films", J. MAGN. MAGN. MATER. **321**, 2459 (2009). (I.F.=1.283) *
41. H.-F. Chen, S.-L. Chou, Y.-J. Wu(吳宇中), and B.-M. Cheng(鄭炳銘), "Quantum-chemical Calculations on Isomers of C₅O", J. MOL. STRUC.-THEOCHEM **913**, 58 (2009). (I.F.=1.167) *
42. C.-Y. Chang, Y.-C. Hsieh(謝殷程), T.-Y. Wang, C.-J. Chen(陳俊榮), and T.-K. Wu, "Purification, Crystallization and Preliminary X-ray Analysis of an Aminoacylhistidine Dipeptidase (PepD) from *Vibrio Alginolyticus*", ACTA CRYSTALLOGR. F **65**, 216 (2009). (I.F.=0.606) *
43. L.-C. Chen(陳麗純), S.-C. Huang, P. Chuankhayan, C.-D. Chen, Y.-C. Huang(黃彥杰), J. Jeyakanthan, H.-F. Pang, L.-C. Men, Y.-C. Chen, Y.-K. Wang, M.-Y. Liu(劉明毅), T.-K. Wu, and C.-J. Chen(陳俊榮), "Purification, Crystallization and Preliminary X-ray Crystallographic Analysis of Xylose Reductase from *Candida Tropicalis*", ACTA CRYSTALLOGR. F **65**, 419 (2009). (I.F.=0.606) *
44. J. Jeyakanthan (傑肯特), S. Thamotharan, D. Velmurugan, V. S. N. Rao, S. Nagarajan, A. Shinkai, S. Kuramitsu, and S. Yokoyama, "New Structural Insights and Molecular-modelling Studies of 4-methyl-5-β-hydroxyethylthiazole Kinase from *Pyrococcus Horikoshii* OT3 (PhThiK)", ACTA CRYSTALLOGR. F **65**, 978 (2009). (I.F.=0.606) *

合作性之 SCI 論文

1. Y.-F. Huang, C.-W. Chang, D.-M. Smilgies, U.-S. Jeng(鄭有舜), A. R. Inigo, J. D. White, K.-C. Li, T.-S. Lim, T.-D. Li, H.-Y. Chen, S.-A. Chen, W.-C. Chen, and W.-S. Fann, "Correlating Nanomorphology with Charge-transport Anisotropy in Conjugated-polymer Thin Films", ADV. MATER. **21**, 2988 (2009). (I.F.=8.191) +
2. H. M. Chen, C. F. Hsin, P. Y. Chen, R.-S. Liu, S.-F. Hu, C.-Y. Huang, J.-F. Lee(李志甫), and L.-Y. Jang(張凌雲), "Ferromagnetic CoPt₃ Nanowires: Strucutral Evolution from Fcc to Ordered Li₂", J. AM. CHEM. SOC. **131**, 15794 (2009). (I.F.=8.091) +
3. Y. H. Lee, C. Z. Chang, S. L. Yau, L. J. Fan(范良任), Y. W. Yang(楊耀文), L.-Y. O. Yang, and K. Itaya, "Conformations of Polyaniline Molecules Adsorbed on Au(111) Porbed by in Situ STM and ex Situ XPS and NEXAFS", J. AM. CHEM. SOC. **131**, 6468 (2009). (I.F.=8.091) +

4. M.-H. Lin, C.-F. Chen, H.-W. Shiu(許紜緯), C.-H. Chen(陳家浩), and S. Gwo, "Multilength-scale Chemical Patterning of Self-assembled Monolayers by Spatially Controlled Plasma Exposure: Nanometer to Centimeter Range", J. AM. CHEM. SOC. **131**, 10984 (2009). (I.F.= 8.091) +
5. M.-C. Liu, H.-S. Sheu(許火順), and S. Cheng, "Anion-exchange Induced Phase Transformation of Mesostructured Silica", J. AM. CHEM. SOC. **131**, 3998 (2009). (I.F.= 8.091) +
6. C. S. Tsao, M. S. Yu, C. Y. Wang, P. Y. Liao, H. L. Chen, U. S. Jeng(鄭有舜), Y. R. Tzeng, T. Y. Chung, and H. C. Wu, "Nanostructure and Hydrogen Spillover of Bridged Metal-organic Frameworks", J. AM. CHEM. SOC. **131**, 1404 (2009). (I.F.= 8.091) +
7. C. F. Chang, Z. Hu, H. Wu, T. Burnus, N. Hollmann, M. Benomar, T. Lorenz, A. Tanaka, H.-J. Lin(林宏基), H. H. Hsieh, C. T. Chen(陳建德), and L. H. Tjeng, "Spin Blockade, Orbital Occupation, and Charge Ordering in $La_{1.5}Sr_{0.5}CoO_4$ ", PHYS. REV. LETT. **102**, 116401 (2009). (I.F.=7.18) +
8. H. W. Ou, J. F. Zhao, Y. Zhang, B. P. Xie, D. W. Shen, Y. Zhu, Z. Q. Yang, J. G. Che, X. G. Luo, X. H. Chen, M. Arita, K. Shimada, H. Namatame, M. Taniguchi, C. M. Cheng, K. D. Tsuei(崔古鼎), and D. L. Feng, "Novel Electronic Structure Induced by a Highly Strained Oxide Interface with Incommensurate Crystal Fields", PHYS. REV. LETT. **102**, 026806 (2009). (I.F.=7.18) +
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10. C.-F. Sheu, K. Chen, S.-M. Chen, Y.-S. Wen, G.-H. Lee, J.-M. Chen(陳錦明), J.-F. Lee(李志甫), B.-M. Cheng(鄭炳銘), H.-S. Sheu(許火順), N. Yasuda, Y. Ozawa, K. Toriumi, and Y. Wang, "Structure and Electronic Configuration of an Iron(II) Complex in a LIEST State: a Pump and Probe Method", CHEM.-EUR. J. **15**, 2384 (2009). (I.F.=5.454) +
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13. C.-K. Chang, Y.-L. Hsu, Y.-H. Chang, F.-A. Chao, M.-C. Wu, Y.-S. Huang(黃玉山), C.-K. Hu, and T.-H. Huang, "Multiple Nucleic Acid Binding Sites and Intrinsic Disorder of Severe Acute Respiratory Syndrome Coronavirus Nucleocapsid Protein: Implications for Ribonucleocapsid Protein Packaging", J. VIROL. **83**, 2255 (2009). (I.F.=5.308) +
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16. Q. Zhou, B. J. Kennedy, Z. Zhang, L.-Y. Jang(張凌雲), and J. B. Aitken, "X-ray Absorption Near Edge Structure and Crystallographic Studies of the Mixed Valence Oxides $CaRu_{1-x}Mn_xO_3$ ", CHEM. MATER. **21**, 4203 (2009). (I.F.=5.046) +
17. Y.-L. Chiu, M.-C. Chen, C.-Y. Chen, P.-W. Lee, F.-L. Mi, U.-S. Jeng(鄭有舜), H.-L. Chen, and H.-W. Sung, "Rapidly in Situ Forming Hydrophobically-modified Chitosan Hydrogels via pH-responsive Nanostructure Transformation", SOFT MATTER **5**, 962 (2009). (I.F.=4.586) +
18. E. D. Burton, R. T. Bush, L. A. Sullivan, R. K. Hocking, D. R. G. Mitchell, S. G. Johnston, R. W. Fitzpatrick, M. Raven, S. McClure, and L. Y. Jang(張凌雲), "Iron-monosulfide Oxidation in Natural Sediments: Resolving Microbially Mediated S Transformations Using XANES, Electron Microscopy, and Selective Extractions", ENVIRON. SCI. TECHNOL. **43**, 3128 (2009). (I.F.=4.458) +
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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 2008 JCR (Journal Citation Reports) 為資料依據。
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