List of Publications (2011)

Publications based on TLS Experiments

主導性之 SCI 論文

1. B.-M. Cheng(鄭炳銘), H.-F. Chen(陳慧芬), H.-C. Lu(盧曉琪), H.-K. Chen, M. S. Alam, S.-L. Chou(周勝隆), and M.-Y. Lin(林孟曄) , "*Absorption Cross Section of Gaseous Acetylene at 85 K in the Wavelength Range 110-155 nm* ", Astrophys. J. Suppl. Ser. **196**, 3 (2011). (I.F.=15.199) ★

2. F. Taufany, C.-J. Pan, J. Rick, H.-L. Chou, M.-C. Tsai, B.-J. Hwang(黃炳照), D.-G. Liu(劉定國), J.-F. Lee(李志甫), M.-T. Tang(湯茂竹), Y.-C. Lee(李耀昌), and C.-I. Chen(陳慶曰), "*Kinetically Controlled Autocatalytic Chemical Process for Bulk Production of Bimetallic Core - Shell Structured Nanoparticles*", ACS Nano **5**, 9370 (2011). (I.F.=9.865) ★

3. W.-R. Wu(吳瑋儒), U.-S. Jeng(鄭有舜), C.-J. Su(蘇群仁), K.-H. Wei, M.-S. Su, M.-Y. Chiu, C.-Y. Chen(陳軍佑), W.-B. Su(蘇文斌), C.-H. Su(蘇秋琿), and A.-C. Su, "*Competition between Fullerene Aggregation and Poly(3-hexylthiophene) Crystallization upon Annealing of Bulk Heterojunction Solar Cells*", ACS Nano **5**, 6233 (2011). (I.F.=9.855) ★

4. M.-J. Deng, J.-K. Chang, C.-C. Wang, K.-W. Chen, C.-M. Lin, M.-T. Tang(湯茂竹), J.-M. Chen(陳錦明), and K.-T. Lu(盧桂子), "*High-performance Electrochemical Pseudo-capacitor Based on MnO_2 Nanowires/Ni Foam as Electrode with a Novel Li-ion Quasi-ionic Liquid as Electrolyte* ", Energy Environ. Sci. **4**, 3942 (2011). (I.F.=9.446) ★

5. V. T. T. Ho, K. C. Pillai, H.-L. Chou, C.-J. Pan, J. Rick, W.-N. Su, B.-J. Hwang(黃炳照), J.-F. Lee(李志甫), H.-S. Sheu(許火順), and W.-T. Chuang(莊偉綜), "*Robust Non-carbon $Ti_{0.7}Ru_{0.3}O_2$ Support with Co-catalytic Functionality for Pt: Enhances Catalytic Activity and Durability for Fuel Cells* ", Energy Environ. Sci. **4**, 4194 (2011). (I.F.=9.446) ★

6. W.-H. Chen, W. T. Chuang(莊偉綜), U.-S. Jeng(鄭有舜), H.-S. Sheu(許火順), and H.-C. Lin, "*New SmCG Phases in a Hydrogen-Bonded Bent-Core Liquid Crystal Featuring a Branched Siloxane Terminal Group*", J. Am. Chem. Soc. **133**, 15674 (2011). (I.F.=9.019) ★

7. V. T. T. Ho, C.-J. Pan, J. Rick, W.-N. Su, and B.-J. Hwang(黃炳照), "*Nanostructured $Ti_{0.7}Mo_{0.3}O_2$ Support Enhances Electron Transfer to Pt: High-performance Catalyst for Oxygen Reduction Reaction*", J. Am. Chem. Soc. **133**, 11716 (2011). (I.F.=9.019) ★

8. C. H. Kuo, Y. T. Chu, Y. F. Song(宋豔芳), and M. H. Huang, "*Cu_2O Nanocrystal-templated Growth of Cu_2S Nanocages with Encapsulated Au Nanoparticles and In-situ Transmission X-ray Microscopy Study*", Adv. Funct. Mater. **21**, 792 (2011). (I.F.=8.486) ★

9. H.-C. Lu(盧曉琪) and B.-M. Cheng(鄭炳銘), "*Analysis of Nitrogen Defects in Diamond with VUV Photoluminescence* ", Anal. Chem. **83**, 6539 (2011). (I.F.=5.874) ★

10. S. H. Chang, M. H. Yeh, C. J. Pan, K. J. Chen, H. Ishii(石井啟文), D. G. Liu(劉定國), J. F. Lee(李志甫), C. C. Liu, J. Rick, M. Y. Cheng, and B. J. Hwang(黃炳照), "*CO-assisted Synthesis of Finely Size-controlled Platinum Nanoparticles*", Chem. Commun. **47**, 3864 (2011). (I.F.=5.787) ★

11. D. W. Ayele, H.-M. Chen, W.-N. Su, C.-J. Pan, L.-Y. Chen, H.-L. Chou, J.-H. Cheng, B.-J. Hwang(黃炳照), and J.-F. Lee(李志甫), "*Controlled Synthesis of CdSe Quantum Dots by a Microwave-enhanced Process: A Green Approach for Mass Production*", Chem.-Eur. J. **17**, 5737 (2011). (I.F.=5.476) ★

12. F. Taufany, C.-J. Pan, H.-L. Chou, J. Rick, Y.-S. Chen, D.-G. Liu(劉定國), J.-F. Lee(李志甫), M.-T. Tang(湯茂竹), and B.-J. Hwang(黃炳照), "*Relating Structural Aspects of Bimetallic Pt_3Cr_1/C Nanoparticles to Their Electrocatalytic Activity, Stability, and Selectivity in the Oxygen Reduction Reaction*", Chem.-Eur. J. **17**, 10724 (2011). (I.F.=5.476) ★

13. H. Husin, W. N. Su, H. M. Chen, C. J. Pan, S. H. Chang, J. Rick, W. T. Chuang(莊偉綜), H. S. Sheu(許火順), and B. J. Hwang, "*Photocatalytic Hydrogen Production on Nickel-loaded $La_xNa_{1-x}TaO_3$ Prepared by Hydrogen Peroxide-water Based Process*", Green Chem. **13**, 1745 (2011). (I.F.=5.472) ★

14. Y.-H. Hsieh(謝怡慧), L.-J. Lai(賴麗珍), S.-J. Liu, and K. S. Liang, "*Rapid and Sensitive Detection of Cancer Cells by Coupling with Quantum Dots and Immunomagnetic Separation at Low Concentrations*", Biosens. Bioelectron. **26**, 4249 (2011). (I.F.=5.361) ★

15. T.-S. Chan(詹丁山), C.-L. Dong(董崇禮), Y.-H. Chen, Y.-R. Lu, S.-Y. Wu, Y.-R. Ma, C.-C. Lin, R.-S. Liu, J.-L. Chen, J. Guo, J.-F. Lee(李志甫), H.-S. Sheu(許火順), C.-C. Yang, and C.-L. Chen, "*Mechanism of Light Emission and Electronic Properties of a Eu^{3+}-doped $Bi_2SrTa_2O_9$ System Determined by Coupled X-ray Absorption and Emission Spectroscopy*", J. Mater. Chem. **21**, 17119 (2011). (I.F.=5.099) ★

16. M.-Y. Cheng, C.-L. Hwang, C.-J. Pan, J.-H. Cheng, Y.-S. Ye, J. F. Rick, and B.-J. Hwang(黃炳照), "*Facile Synthesis of SnO_2-embedded Carbon Nanomaterials via Glucose-mediated Oxidation of Sn Particles*", J. Mater. Chem. **21**, 10705 (2011). (I.F.=5.099) ★

17. H. C. Lu, W. T. Whang, and B. M. Cheng(鄭炳銘), "*Reversible Isomerization of a Zwitterionic Polysquaraine Induced by a Metal Surface*", J. Mater. Chem. **21**, 2568 (2011). (I.F.=5.099) ★

18. C. W. Wu, C. W. Lu, Y. P. Lee, Y. J. Wu(吳宇中), B. M. Cheng(鄭炳銘), and M. C. Lin, "*Blue/Near UV Light Emission from Hybrid InN/TiO_2 Nanoparticle Films*", J. Mater. Chem. **21**, 8540 (2011). (I.F.=5.099) ★

19. W.-T. Chuang(莊偉綜), W.-B. Su(蘇文斌), U.-S. Jeng(鄭有舜), P.-D. Hong, C.-J. Su(蘇群仁), C.-H. Su(蘇秋琿), Y.-C. Huang(黃彥之), K.-F. Laio(廖桂芬), and A.-C. Su, "*Formation of Mesomorphic Domains and Subsequent Structural Evolution during Cold Crystallization of Poly(Trimethylene Terephthalate)*", Macromolecules **44**, 1140 (2011). (I.F.=4.837) ★

20. C.-H. Wang(王嘉興), S. Mukherjee, A. K. M. Maidul Islam, Y.-W. Yang(楊耀文), and M. Mukherjee, "*Role of Interfacial Interaction in Orientation of Poly(N-isopropylacrylamide) Chains on Silicon Substrate*", Macromolecules **44**, 5750 (2011). (I.F.=4.837) ★

21. S.-C. Yang, W.-N. Su, S.-D. Lin, J. Rick, J.-H. Cheng, J.-Y. Liu, C.-J. Pan, D.-G. Liu(劉定國), J.-F. Lee(李志甫), T.-S. Chan(詹丁山), H.-S. Sheu(許火順), and B.-J. Hwang(黃炳照), "*Preparation of Nano-sized Cu from a Rod-like $CuFe_2O_4$: Suitable for High Performance Catalytic Applications*", Appl. Catal. B-Environ. **106**, 650 (2011). (I.F.=4.749) ★

22. S. M. Chang, Y. Y. Hsu, and T. S. Chan(詹丁山), "*Chemical Capture of Phosphine by a Sol-Gel-derived Cu/TiO_2 Adsorbent-Interaction Mechanisms*", J. Phys. Chem. C **115**, 2005 (2011). (I.F.=4.52) ★

23. Y.-H. Liao, Y.-S. Lin, T.-S. Wu, S.-K. Lin, J.-L. Lin, L.-J. Fan(范良任), Y.-W. Yang(楊耀文), and J.-C. Lin, "*Bonding Structure, Dehydrogenation, and Dimerization of 1,3-C_6H_4 from Decomposition of 1,3-$C_6H_4I_2$ on Cu(100)*", J. Phys. Chem. C **115**, 23428 (2011). (I.F.=4.524) ★

24. H.-J. Liu(劉恆睿), U.-S. Jeng(鄭有舜), N. L. Yamada, A.-C. Su, W.-R. Wu(吳瑋儒), C.-J. Su(蘇群仁), S.-J. Lin, K.-H. Wei, and M.-Y. Chiu, "*Surface and Interface Porosity of Polymer/Fullerene-derivative Thin Films Revealed by Contrast Variation of Neutron and X-ray Reflectivity*", Soft Matter **7**, 9276 (2011). (I.F.=4.457) ★

25. J.-Y. Fang, Y.-L. Chiang, Y.-C. Hsieh(謝殷程), V. C.-C. Wang, Y.-C. Huang, P. Chuankhayan, M.-C. Yang, M.-Y. Liu, S. I. Chan, and C.-J. Chen(陳俊榮), "*Crystallization of Adenylylsulfate Reductase from Desulfovibrio Gigas: a Strategy Based on Controlled Protein Oligomerization*", Cryst. Growth Des. **11**, 2127 (2011). (I.F.=4.389) ★

26. B. H. Lin, W. R. Liu, S. Yang, C. C. Kuo, C. H. Hsu(徐嘉鴻), W. F. Hsieh, W. C. Lee, Y. J. Lee, M. Hong, and J. Kwo, "*The Growth of an Epitaxial ZnO Film on Si(111) with a Gd_2O_3(Ga_2O_3) Buffer Layer*", Cryst. Growth Des. **11**, 2846 (2011). (I.F.=4.389) ★

27. J. Joseph, C.-Y. Tseng, and B.-J. Hwang(黃炳照), "*Phosphonic Acid-grafted Mesostructured Silica/Nafion Hybrid Membranes for Fuel Cell Applications*", J. Power Sources **196**, 7363 (2011). (I.F.=4.283) ★

28. C.-Y. Tseng, Y.-S. Ye, J. Joseph, K.-Y. Kao, J. Rick, S.-L. Huang, and B.-J. Hwang(黃炳照), "*Tuning Transport Properties by Manipulating the Phase Segregation of Tetramethyldisiloxane Segments in Modified Polyimide Electrolytes*", J. Power Sources **196**, 3470 (2011). (I.F.=4.283) ★

29. J. L. Lou, H. W. Shiu, L. Y. Chang, C. P. Wu, Y.-L. Soo, and C.-H. Chen(陳家浩), "*Preparation and Characterization of an Ordered 1-dodecanethiol Monolayer on Bare Si(111) Surface*", Langmuir **27**, 3436 (2011). (I.F.=4.268) ★

30. S. W. Chen(陳世偉), S. C. Huang, G. Y. Guo, J. M. Lee(李振民), S. Chiang, W. C. Chen, Y. C. Liang(梁育嘉), K. T. Lu(盧桂子), and J. M. Chen(陳錦明), "*Gapless Band Structure of $PbPdO_2$: A Combined First Principles Calculation and Experimental Study*", Appl. Phys. Lett. **99**, 012103 (2011). (I.F.=3.82) ★

31. H. M. Nguyen, N. V. Dang, P.-Y. Chuang, T. D. Thanh, C.-W. Hu(胡芝瑋), T.-Y. Chen, V. D. Lam, C.-H. Lee(李志浩), and L. V. Hong, "*Tetragonal and Hexagonal Polymorphs of $BaTi_{1-x}Fe_xO_{3-\delta}$ Multiferroics Using X-ray and Raman Analyses*", Appl. Phys. Lett. **99**, 202501 (2011). (I.F.=3.841) ★

32. T.-W. Pi(皮敦文), M. L. Huang, W. C. Lee, L. K. Chu, T. D. Lin, T. H. Chiang, Y. C. Wang, Y. D. Wu, M. Hong, and J. Kwo, "*High-resolution Core-level Photoemission Study of CF_4-treated $Gd_2O_3(Ga_2O_3)$ Gate Dielectric on Ge Probed by Synchrotron Radiation*", Appl. Phys. Lett. **98**, 062903 (2011). (I.F.=3.82) ★

33. J. M. Chen(陳錦明), S. C. Haw, J. M. Lee(李振民), T. L. Chou(周大磊), S. A. Chen(陳興安), K. T. Lu(盧桂子), Y. C. Liang(梁育嘉), Y. C. Lee(李耀昌), N. Hiraoka(平岡望), H. Ishii(石井啟文), K. D. Tsuei(崔古鼎), E. Huang, and T. J. Yang, "*Pressure Dependence of the Electronic Structure and Spin State in $Fe_{1.01}Se$ Superconductors Probed by X-ray Absorption and X-ray Emission Spectroscopy*", Phys. Rev. B **84**, 125117 (2011). (I.F.=3.772) ★

34. X. Liang, J.-H. Deng, L.-J. Fan(范良任), Y.-W. Yang(楊耀文), and D.-A. Luh(陸大安), "*Nonalloying Surface Reconstructions of Ultrathin Sn Films on Cu(111) Investigated with LEED, XPS, and Photoelectron Extended Fine Structure Analysis*", Phys. Rev. B **84**, 075406 (2011). (I.F.=3.772) ★

35. C. Chaudhuri and S. H. Lee(李世煌), "*A Complete Look at the Multi-channel Dissociation of Propenal Photoexcited at 193 nm: Branching Ratios and Distributions of Kinetic Energy*", Phys. Chem. Chem. Phys. **13**, 7312 (2011) . (I.F.=3.453) ★

36. S.-H. Lee(李世煌), C.-H. Chin(金之豪), W.-K. Chen, W.-J. Huang(黃文建), and C.-C. Hsieh, "*Exploring the Dynamics of Reaction $N(^2D)+C_2H_4$ with Crossed Molecular-beam Experiments and Quantum-chemical Calculations*", Phys. Chem. Chem. Phys. **13**, 8515 (2011). (I.F.=3.453) ★

37. S.-H. Lee(李世煌), C.-H. Chin, and C. Chaudhuri, "*Evidence for Synchronous Concerted Three-body Dissociation of Propenal to $C_2H_2+CO+H_2$*", ChemPhysChem **12**, 753 (2011). (I.F.=3.339) ★

38. B.-J. Chang, S. H. Lin, L.-J. Chou, and S.-Y. Chiang(江素玉), "*Subdiffraction Scattered Light Imaging of Gold Nanoparticles Using Structured Illumination*", Opt. Lett. **36**, 4773 (2011). (I.F.=3.318) ★

39. C.-H. Chin(金之豪) and S.-H. Lee(李世煌), "*Theoretical Study of Isomerization and Decomposition of Propenal*", J. Chem. Phys. **134**, 044309 (2011). (I.F.=2.92) ★

40. C.-H. Chin(金之豪), C. Chaudhuri, and S.-H. Lee(李世煌), "*Molecular-beam Experiments for Photodissociation of Propenal at 157 nm and Quantum-chemical Calculations for Migration and Elimination of Hydrogen Atoms in Systems C_3H_4O and C_3H_3O*", J. Chem. Phys. **135**, 044301 (2011). (I.F.=2.92) ★

41. K. T. Lu(盧桂子), J. M. Chen(陳錦明), J. M. Lee(李振民), S. C. Haw, Y. C. Liang(梁育嘉), and M. J. Deng(鄧名傑), "*Core-level Positive-ion and Negative-ion Fragmentation of Gaseous and Condensed $HCCl_3$ Using Synchrotron Radiation*", J. Chem. Phys. **135**, 044303 (2011). (I.F.=2.92) ★

42. S. W. Chen(陳世偉), J. M. Lee(李振民), S. Chiang, S. C. Haw(何樹智), Y. C. Liang(梁育嘉), K. T. Lu(盧桂子), C. W. Pao(包志文), J. F. Lee(李志甫), M. T. Tang(湯茂竹), and J. M. Chen(陳錦明), "*Conduction-band Tailing of Ce-doped TiO_2 Visible-light-driven Photocatalyst: the Essential Role of Oxygen Vacancy*", J. Phys. Soc. JPN. **80**, 114706 (2011). (I.F.=2.905) ★

43. N. Hiraoka(平岡望), M. Suzuki, K. D. Tsuei(崔古鼎), H. Ishii(石井啟文), Y. Q. Cai, M. W. Haverkort, C. C. Lee, and W. Ku, "*dd Excitations in Three-dimensional Q-space: a Nonresonant Inelastic X-ray Scattering Study on NiO*", EPL-Europhys. Lett. **96**, 37007 (2011). (I.F.=2.753) ★

44. W. L. Jang(張瑋倫), Y. M. Lu, W. S. Hwang, C. L. Dong, P. H. Hsieh, C. L. Chen, T. S. Chan(詹丁山), and J. F. Lee(李志甫), "*A Study of Thermal Decomposition of Sputtered NiO Films*", EPL-Europhys. Lett. **96**, 37009 (2011). (I.F.=2.753) ★

45. S.-C. Chao, Y.-C. Yen, Y.-F. Song(宋艷芳), H.-S. Sheu(許火順), H.-C. Wu, and N.-L. Wu, "*In Situ Transmission X-ray Microscopy Study on Working SnO Anode Particle of Li-ion Batteries*", J. Electrochem. Soc. **158**, A1335 (2011). (I.F.=2.42) ★

46. C. L. Chen, C. L. Dong(董崇禮), K. Asokan, J. L. Chen, Y. S. Liu, J.-H. Guo, W. L. Yang, Y. Y. Chen, F. C. Hsu, C. L. Chang, and M. K. Wu, "*Role of 3d Electrons in the Rapid Suppression of Superconductivity in the Dilute V Doped Spinel Superconductor $LiTi_2O_4$*", Supercond. Sci. Tech. **24**, 115007 (2011). (I.F.=2.402) ★

47. Y. R. Lu, C. H. Huang, T. M. Chen, J. H. Lin, Y. R. Ma, J. L. Chen, C. C. Hsu(許智欽), C. L. Chen, C. L. Dong(董崇禮), and T. S. Chan(詹丁山), "*Effect of Mn Substitution on Electronic Structure of $Ca_9Y(PO_4)_7$:Eu^{2+}, Mn^{2+} Phosphor Determined by X-ray Absorption Spectroscopy*", Chem. Phys. Lett. **515**, 245 (2011). (I.F.=2.28) ★

48. Y.-T. Liu, S.-J. Chiu, S.-Y. Chen, and H.-Y. Lee(李信義), "*Preparation of $BiFeO_3$/$LaNiO_3$ Multiferroic Oxide Superlattice Structure by RF Magnetron Sputtering*", Surf. Coat. Tech. **206**, 1666 (2011). (I.F.=2.135) ★

49. J. F. Ogilvie, S.-L. Chou(周勝隆), M.-Y. Lin(林孟曄), and B.-M. Cheng(鄭炳銘), "*Mid-infrared Spectra of Methane Dispersed in Solid Neon and Argon*", Vib. Spectrosc. **57**, 196 (2011). (I.F.=2.083) ★

50. T.-W. Pi(皮敦文), C.-P. Cheng, and G. K. Wertheim, "*The Reaction of Si(001) with Magnesium and Calcium*", J. Appl. Phys. **109**, 043701 (2011). (I.F.=2.064) ★

51. T.-W. Pi(皮敦文), W. C. Lee, M. L. Huang, L. K. Chu, T. D. Lin, T. H. Chiang, Y. C. Wang, Y. D. Wu, M. Hong, and J. Kwo, "*Electronic Structures of Ga_2O_3(Gd_2O_3) Gate Dielectric on n-Ge(001) as Grown and After CF_4 Plasma Treatment: A Synchrotron-radiation Photoemission Study*", J. Appl. Phys. **109**, 063725 (2011). (I.F.=2.064) ★

52. Y.-J. Hsu(許瑤真), Y.-J. Hung, Y.-C. Lin, Y.-L. Lai(賴玉鈴), H.-T. Chang, C.-H. Wang, Y. L. Chan(陳悅來), C.-L. Hsia, M.-F. Luo, C.-H. Lee, and D. H. Wei(魏德新), "*The Origin of Interfacial Electronic and Magnetic Degradation for a Ferromagnet Atop Organic Conjugated Molecules*", Synthetic Met. **161**, 575 (2011). (I.F.=1.871) ★

53. D. H. Wei(魏德新), Y.-L. Chan(陳悅來), Y.-J. Hung, C.-H. W., Y.-C. Lin, Y.-L. Lai(賴玉鈴), H.-T. Chang, C.-H. Lee, and Y. J. Hsu(許瑤真), "*Magnetic Disparities at the Interfaces of Co-Pentacene-Co Hybrid Structures*", Synthetic Met. **161**, 581 (2011). (I.F.=1.871) ★

54. 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), "*State-specific Enhanced Production of Positive and Negative Ions of Gaseous $SiCl_4$ and Solid-state Analogues Following Core-level Excitation*", J. Electron Spectrosc. **184**, 140 (2011). (I.F.=1.75) ★

55. P. Chang, W. C. Lee, T. D. Lin, C. H. Hsu(徐嘉鴻), J. Kwo, and M. Hong, "*MBE-Enabling Technology Beyond Si CMOS*", J. Cryst. Growth **323**, 511 (2011). (I.F.=1.737) ★

56. W. H. Chang, P. Chang, W. C. Lee, T. Y. Lai, J. Kwo, C.-H. Hsu(徐嘉鴻), J. M. Hong, and M. Hong, "*Epitaxial Stabilization of a Monoclinic Phase in Y_2O_3 Films on c-Plane GaN*", J. Cryst. Growth **323**, 107 (2011). (I.F.=1.737) ★

57. S.-J. Chiu(邱上睿), Y.-T. Liu, H.-Y. Lee(李信義), G.-P. Yu, and J.-H. Huang, "*Growth of $BiFeO_3$/$SrTiO_3$ Artificial Superlattice Structure by RF Sputtering*", J. Cryst. Growth **334**, 90 (2011). (I.F.=1.737) ★

58. Y. H. Chang, M. L. Huang, P. Chang, J. Y. Shen, B. R. Chen, C. L. Hsu, T. W. Pi(皮敦文), M. Hong, and J. Kwo, "*In Situ Atomic Layer Deposition and Synchrotron-radiation Photoemission Study of Al_2O_3 on Pristine n-GaAs(001)-4× 6 Surface*", Microelectron. Eng. **88**, 1101 (2011). (I.F.=1.569) ★

59. S.-W. Chen(陳世偉), C.-T. Yang, and D. Chiang, "*Crystallization Behavior of the AgInSbTe Film*", IEEE T. Magn. **47**, 551 (2011). (I.F.=1.052) ★

60. S. N. Hsiao(蕭世男), S. K. Chen, S. H. Liu, C. J. Liao, F. T. Yuan, and H. Y. Lee(李信義), "*Effect of Annealing Process on Residual Strain/Stress Behaviors in FePt Thin Films*", IEEE T. Magn. **47**, 3637 (2011). (I.F.=1.052) ★

61. C.-H. Lee(李志浩), C.-J. Chang, M.-H. Lee, Y.-C. Lin, and J. C. A. Huang, "*The Exchange Bias of a Permalloy and Ordered Epitaxial IrMn Thin Film Prepared from the Growth of Ultrathin [Ir/Mn] Multilayer*", IEEE T. Magn. **47**, 3497 (2011). (I.F.=1.052) ★

62. P.-H. Wu, J.-J. Hsu, T.-W. Chiang, Y.-C. Hsieh(謝殷程), H.-Y. Chang, S.-L. Chang(張石麟), and C.-J. Chen(陳俊榮), "*Purification, Crystallization and Preliminary X-ray Crystallographic Analysis of the Receiver and Stalk Domains (PA3346RS) of the Response Regulator PA3346 from Pseudomonas Aeruginosa PAO1*", Acta Crystallogr. F **67**, 937 (2011). (I.F.=0.563) ★

合作性之 SCI 論文

1. R. Nomura, H. Ozawa, S. Tateno, K. Hirose, J. Hernlund, S. Muto, H. Ishii(石井啟文), and N. Hiraoka(平岡望), "*Spin Crossover and Iron-rich Silicate Melt in the Earth's Deep Mantle*", Nature **473**, 199 (2011). (I.F.=36.101) ☆

2. N. J. Lawrence, J. R. Brewer, L. Wang, T.-S. Wu, J. Wells-Kingsbury, M. M. Ihrig, G. Wang, Y.-L. Soo(蘇雲良), W.-N. Mei, and C. L. Cheung, "*Defect Engineering in Cubic Cerium Oxide Nanostructures for Catalytic Oxidation*", Nano Lett. **11**, 2666 (2011). (I.F.=12.186) ☆

3. M.-S. Su, C.-Y. Kuo, M.-C. Yuan, U.-S. Jeng(鄭有舜), C.-J. Su(蘇群仁), and K.-H. Wei, "*Improving Device Efficiency of Polymer/Fullerene Bulk Heterojunction Solar Cells through Enhanced Crystallinity and Reduced Grain Boundaries Induced by Solvent Additives*", Adv. Mater. **23**, 3315 (2011). (I.F.=10.857) ☆

4. C.-C. Huang, C.-Y. Tsai, H.-S. Sheu(許火順), K.-Y. Chuang, C.-H. Su(蘇秋琿), U.-S. Jeng(鄭有舜), F.-Y. Cheng, C.-H. Su, H.-Y. Lei, and C.-S. Yeh, "*Enhancing Transversal Relaxation for Magnetite Nanoparticles in MR Imaging Using Gd^{3+}-chelated Mesoporous Silica Shells*", ACS Nano **5**, 3905 (2011). (I.F.=9.855) ☆

5. C.-Y. Kuo, M.-S. Su, G.-Y. Chen, C.-S. Ku(古慶順), H.-Y. Lee(李信義), and K.-H. Wei, "*Annealing Treatment Improves the Morphology and Performance of Photovoltaic Devices Prepared from Thieno [3,4-c] Pyrrole-4, 6-dione-based Donor/Acceptor Conjugated Polymers and CdSe Nanostructures*", Energy Environ. Sci. **4**, 2316 (2011). (I.F.=9.446) ☆

6. C.-C. Lin, Y.-Y. Lin, S.-S. Li, C.-C. Yu, C.-L. Huang, S.-H. Lee, C.-H. Du, J.-J. Lee(李之釗), H.-L. Chen, and C.-W. Chen, "*Electric Field-assisted Self-organization of Polymer: Fullerene Hybrids on the Photovoltaic Performance*", Energy Environ. Sci. **4**, 2134 (2011). (I.F.=9.446) ☆

7. H.-C. Liao, C.-S. Tsao, T.-H. Lin, C.-M. Chuang, C.-Y. Chen, U. S. Jeng(鄭有舜), C.-H. Su(蘇秋琿), Y.-F. Chen, and W.-F. Su, "*Quantitative Nanoorganized Structural Evolution for a High Efficiency Bulk Heterojunction Polymer Solar Cell*", J. Am. Chem. Soc. **133**, 13064 (2011) . (I.F.=9.019) ☆

8. K.-T. Ko, K. Kim, S. B. Kim, H.-D. Kim, J.-Y. Kim, B. I. Min, J.-H. Park, F.-H. Chang(張凡修), H.-J. Lin(林宏基), A. Tanaka, and S-W. Cheong, "*RKKY Ferromagnetism with Ising-like Spin States in Intercalated $Fe_{1/4}TaS_2$*", Phys. Rev. Lett. **107**, 247201 (2011). (I.F.=7.622) ☆

9. H. Ohta, K. Yoshimura, Z. Hu, Y. Y. Chin, H. J. Lin(林宏基), H. H. Hsieh, C. T. Chen(陳建德), and L. H. Tjeng, "*Determination of the Co Valence in Bilayer Hydrated Superconducting $Na_xCoO_2.yH_2O$ by Soft X-ray Absorption Spectroscopy*", Phys. Rev. Lett. **107**, 066404 (2011). (I.F.=7.621) ☆

10. S. J. Tang, C. Y. Lee, C. C. Huang, T. R. Chang, C. M. Cheng(鄭澄懋), K. D. Tsuei(崔古鼎), H. T. Jeng, V. Yeh, and T. C. Chiang, "*Electronic Versus Lattice Match for Metal-semiconductor Epitaxial Growth: Pb on Ge(111)*", Phys. Rev. Lett. **107**, 066802 (2011). (I.F.=7.621) ☆

11. H. Yamaoka, I. Jarrige, N. Tsujii, J.-F. Lin, T. Ikeno, Y. Isikawa, K. Nishimura, R. Higashinaka, H. Sato, N. Hiraoka(平岡望), H. Ishii(石井啟文), and K.-D. Tsuei(崔古鼎), "*Strong Coupling between 4f Valence Instability and 3d Ferromagnetism in $Yb_xFe_4Sb_{12}$ Studied by Resonant X-Ray Emission Spectroscopy*", Phys. Rev. Lett. **107**, 177203 (2011). (I.F.=7.621) ☆

12. J. X. Zhang, Q. He, M. Trassin, W. Luo, D. Yi, M. D. Rossell, P. Yu, L. You, C. H. Wang, C. Y. Kuo(郭昌洋), J. T. Heron, Z. Hu, R. J. Zeches, H. J. Lin(林宏基), A. Tanaka, C. T. Chen(陳建德), L. H. Tjeng, Y.-H. Chu, and R. Ramesh, "*Microscopic Origin of the Giant Ferroelectric Polarization in Tetragonal-like $BiFeO_3$*", Phys. Rev. Lett. **107**, 147602 (2011). (I.F.=7.621) ☆

13. C.-H. Ho, C.-P. Tsai, C.-C. Chung, C.-Y. Tsai, F.-R. Chen, H.-J. Lin(林宏基), and C.-H. Lai, "*Shape-controlled Growth and Shape-dependent Cation Site Occupancy of Monodisperse Fe_3O_4 Nanoparticles*", Chem. Mater. **23**, 1753 (2011). (I.F.=6.397) ☆

14. Y. Li, Y. N. Kim, J. Cheng, J. A. Alonso, Z. Hu, Y.-Y. Chin, T. Takami, M. T. Fernandez-Díaz, H.-J. Lin(林宏基), C.-T. Chen(陳建德), L. H. Tjeng, A. Manthiram, and J. B. Goodenough, "*Oxygen-deficient Perovskite $Sr_{0.7}Y_{0.3}CoO_{2.65-\delta}$as a Cathode for Intermediate-temperature Solid Oxide Fuel Cells*", Chem. Mater. **23**, 5037 (2011). (I.F.=6.397) ☆

15. T.-C. Liu, B.-M. Cheng(鄭炳銘), S.-F. Hu, and R.-S. Liu, "*Highly Stable Red Oxynitride β-SiAlON:Pr^{3+} Phosphor for Light-emitting Diodes*", Chem. Mater. **23**, 3698 (2011). (I.F.=6.397) ☆

16. L.-Y. Chen, C.-H. Chen, C.-H. Tseng, F.-L. Lai, and B.-J. Hwang(黃炳照), "*Synthesis $CdSe_xS_{1-x}$ Core/Shell Type Quantum Dots via One Injection Method*", Chem. Commun. **47**, 1592 (2011). (I.F.=5.787) ☆

17. W.-H. Chen, Y.-T. Chang, J.-J. Lee(李之釗), W.-T. Chuang(莊偉綜), and H.-C. Lin, "*Smectic-layer Alignments of Surface-modified Gold Nanoparticles in the Nanocomposite Induced by a Hydrogen-bonded Bent-core Liquid Crystalline Host under Electric Fields*", Chem.-Eur. J. **17**, 13182 (2011). (I.F.=5.476) ☆

18. S. L. Lee, H. A. Lin, Y. H. Lin, H. H. Chen, C. T. Liao, T. L. Lin, Y. C. Chu, H. F. Hsu, C. H. Chen, J. J. Lee(李之釗), W. Y. Hung, Q. Y. Liu, and C. Wu, "*Gearing of Molecular Swirls: Columnar Packing of Nematogenic Hexakis(4-alkoxyphenylethynyl)benzene Derivatives*", Chem.-Eur. J. **17**, 792 (2011). (I.F.=5.476) ☆

19. C.-C. Wang, C.-C. Yang, W.-C. Chung, G.-H. Lee, M.-L. Ho, Y.-C. Yu, M.-W. Chung, H.-S. Sheu(許火順), C.-H. Shih, K.-Y. Cheng, P.-J. Chang, and P.-T. Chou, "*A New Coordination Polymer Exhibiting Unique 2D Hydrogen-bonded $(H_2O)_{16}$ Ring Formation and Water-dependent Luminescence Properties*", Chem.-Eur. J. **17**, 9232 (2011). (I.F.=5.476) ☆

20. S. Y. Chen, T. Yokoi, C. Y. Tang, L. Y. Jang(張凌雲), T. Tastumi, J. C. C. Chan, and S. Cheng, "*Sulfonic Acid-functionalized Platelet SBA-15 Materials as Efficient Catalysts for Biodiesel Synthesis*", Green Chem. **13**, 2920 (2011). (I.F.=5.472) ☆

21. C.-H. Liu, Y. Guan, E. J. M. Hensen, J.-F. Lee(李志甫), and C.-M. Yang, "*Au/TiO_2@SBA-15 Nanocomposites as Catalysts for Direct Propylene Epoxidation with O_2 and H_2 Mixtures*", J. Catal. **282**, 94 (2011). (I.F.=5.415) ☆

22. X.-Y. Liu, A.-Q. Wang, L. Li, T. Zhang, C.-Y. Mou, and J.-F. Lee(李志甫), "*Structural Changes of Au-Cu Bimetallic Catalysts in CO Oxidation: in situ XRD, EPR, XANES, and FT-IR Characterizations*", J. Catal. **278**, 288 (2011). (I.F.=5.415) ☆

23. S. Y. Chen, C. Y. Tang, J. F. Lee(李志甫), L. Y. Jang(張凌雲), T. Tatsumi, and S. Cheng, "*Effect of Calcination on the Sturcture and Catalytic Activities of Titanium Incorporated SBA-15*", J. Mater. Chem. **21**, 2255 (2011). (I.F.=5.099) ☆

24. S.-Y. Chen, Y.-T. Chen, J.-J. Lee(李之釗), and S. Cheng, "*Tuning Pore Diameter of Platelet SBA-15 Materials with Short Mesochannels for Enzyme Adsorption*", J. Mater. Chem. **21**, 5693 (2011). (I.F.=5.099) ☆

25. S. N. Hsieh, S. W. Hsiao, T. Y. Chen, C. Y. Li, C. H. Lee, T. F. Guo, Y. J. Hsu(許瑤真), T. L. Lin, Y. Wei, and T. C. Wen, "*Self-assembled Tetraoctylammonium Bromide as an Electron-injection Layer for Cathode-independent High-efficiency Polymer Light-emitting Diodes*", J. Mater. Chem. **21**, 8715 (2011). (I.F.=5.099) ☆

26. C.-C. Huang, K.-Y. Chuang, C.-P. Chou, M.-T. Wu, H.-S. Sheu(許火順), D.-B. Shieh, C.-Y. Tsai, C.-H. Su, H.-Y. Lei, and C.-S. Yeh, "*Size-control Synthesis of Structure Deficient Truncated Octahedral $Fe_{3-\delta}O_4$ Nanoparticles: High Magnetization Magnetites as Effective Hepatic Contrast agents*", J. Mater. Chem. **21**, 7472 (2011). (I.F.=5.099) ☆

27. C.-H. Huang, Y.-C. Chen, T.-M. Chen, T.-S. Chan(詹丁山), and H.-S. Sheu(許火順), "*Near UV-pumped Yellow-emitting $Sr_8MgSc(PO_4)_7:Eu^{2+}$ Phosphor for White-light LEDs with Excellent Color Rendering Index*", J. Mater. Chem. **21**, 5645 (2011). (I.F.=5.099) ☆

28. C.-H. Huang, P.-J. Wu(吳品鈞), J.-F. Lee(李志甫), and T.-M. Chen, "*$(Ca,Mg,Sr)_9Y(PO_4)_7$: Eu^{2+},Mn^{2+}: Phosohors for White-light Near-UV LEDs Through Crystal Field Tuning and Energy Transfer*", J. Mater. Chem. **21**, 10489 (2011). (I.F.=5.099) ☆

29. T. F. Hung, H. C. Kuo, C. W. Tsai, H. M. Chen. R. S. Liu, B. J. Weng, and J. F. Lee(李志甫), "*An Alternative Cobalt Oxide-supported Platinum Catalyst for Efficient Hydrolysis of Sodium Borohydride*", J. Mater. Chem. **21**, 11754 (2011). (I.F.=5.099) ☆

30. C.-Y. Kuo, M.-S. Su, C.-S. Ku(古慶順), S.-M. Wang, H.-Y. Lee(李信義), and K.-H. Wei, "*Ligands Affect the Crystal Structure and Photovoltaic Performance of Thin Films of PbSe Quantum Dots*", J. Mater. Chem. **21**, 11605 (2011). (I.F.=5.099) ☆

31. M.-W. Lin, T.-C. Wen, Y.-J. Hsu(許瑤真), and T.-F. Guo, "*Poly(Ethylene Oxide)-functionalized Al Cathodes of Tunable Electron-injection Capabilities for Efficient Polymer Light-emitting Diodes*", J. Mater. Chem. **21**, 18840 (2011). (I.F.=5.099) ☆

32. M.-C. Lin, Y.-C. Wang, J.-H. Chen, H.-L. Chen, A. J. Muller, C.-J. Su(蘇群仁), and U.-S. Jeng(鄭有舜), "*Orthogonal Crystal Orientation in Double-crystalline Block Copolymer* ", Macromolecules **44**, 6875 (2011). (I.F.=4.837) ☆

33. Y. C. Hsieh, L. C. Chang, P. W. Wu, Y. M. Chang, and J. F. Lee(李志甫), "*Displacement Reaction of Pt on Carbon-supported Ru Nanoparticles in Hexachloroplatinic Acids*", Appl. Catal. B-Environ. **103**, 116 (2011). (I.F.=4.749) ☆

34. H. Husin, H.-M. Chen, W.-N. Su, C.-J. Pan, W.-T. Chuang, H.-S. Sheu(許火順), and B.-J. Hwang(黃炳照), "*Green Fabrication of La-doped $NaTaO_3$ via H_2O_2 Assisted Sol-gel Route for Photocatalytic Hydrogen Production*", Appl. Catal. B-Environ. **102**, 343 (2011). (I.F.=4.749) ☆

35. C. S. Chen, C. C. Chen, T. W. Lai, J. H. Wu, C. H. Chen, and J. F. Lee(李志甫), "*Water Adsorption and Dissociation on Cu Nanoparticles*", J. Phys. Chem. C **115**, 12891 (2011). (I.F.=4.52) ☆

36. H. M. Chen, C. K. Chen, C. C. Lin, R.-S. Liu, H. Yang, W.-S. Chang, K.-H. Chen, T.-S. Chan(詹丁山), J.-F. Lee(李志甫), and D. P. Tsai, "*Multi-bandgap-sensitized ZnO Nanorod Photoelectrode Arrays for Water Splitting: An X-ray Absorption Spectroscopy Approach for the Electronic Evolution under Solar Illumination*", J. Phys. Chem. C **115**, 21971 (2011). (I.F.=4.52) ☆

37. J. W. Chiou, S. C. Ray, H. M. Tsai, C. W. Pao, F. Z. Chien, W. F. Pong, C. H. Tseng, J. J. Wu, M. T. Tsai, C. H. Chen(陳家浩), H. J. Lin(林宏基), J. F. Lee(李志甫), and J. H. Guo, "*Correlation Between Electronic Structures and Photocatalytic Activities of Nanocrystalline-(Au, Ag and Pt) Particles on the Surface of ZnO Nanorods*", J. Phys. Chem. C **115**, 2650 (2011). (I.F.=4.52) ☆

38. S.-C. Chao, Y.-F. Song(宋豔芳), C.-C. Wang, H.-S. Sheu(許火順), H.-C. Wu, and N.-L. Wu, "*Study on Microstructural Deformation of Working Sn and SnSb Anode Particles for Li-Ion Batteries by in Situ Transmission X-ray Microscopy*", J. Phys. Chem. C **115**, 22040 (2011). (I.F.=4.52) ☆

39. F. Li, Y. Zhan, T.-H. Lee, X. Liu, A. Chikamatsu, T.-F. Guo, H.-J. Lin(林宏基), J. C. A. Huang, and M. Fahlman, "*Modified Surface Electronic and Magnetic Properties of $La_{0.6}Sr_{0.4}MnO_3$ Thin Films for Spintronics Applications*", J. Phys. Chem. C **115**, 16947 (2011). (I.F.=4.52) ☆

40. C. W. Tsai, H. M. Chen, R. S. Liu, K. Asakura, and T. S. Chan(詹丁山), "*Ni@NiO Core-shell Structure-modified Nitrogen-doped in TaO_4 for Solar-driven Highly Efficient CO_2 Reduction to Methanol*", J. Phys. Chem. C **115**, 10180 (2011). (I.F.=4.52) ☆

41. M. Viswanathan, H. H. Hsieh, H.-J. Lin(林宏基), C. T. Chen(陳建德), and P. S. A. Kumar, "*Investigation on the Magnetic Anomaly and the Role of Orbital Moment on the Magnetic Properties of $LaMn_{0.5}Co_{0.5}O_3$*", J. Phys. Chem. C **115**, 4851 (2011). (I.F.=4.52) ☆

42. C.-Y. Chang, P.-J. Wu(吳品鈞), and Y.-S. Sun(孫亞賢), "*Kinetically Controlled Self-assembly of Monolayered Micelle Films of P(S-b-4VP) on Bare and PS-grafted Substrates*", Soft Matter **7**, 9140 (2011). (I.F.=4.457) ☆

43. C.-Y. Chen, C.-J. Su(蘇群仁), S.-F. Peng, H.-L. Chen(陳信龍), and H.-W. Sung, "*Dendrimer-induced DNA Bending*", Soft Matter **7**, 61 (2011). (I.F.=4.457) ☆

44. H. L. Cheng, J. W. Lin, F. C. Wu, W. R. She, W. Y. Chou, W. J. Shih(施韋如), and H. S. Sheu(許火順), "*Reformation of Conjugated Polymer Chains Toward Maximum Effective Conjugation Lengths by Quasi-swelling and Recrystallization Approach*", Soft Matter **7**, 351 (2011). (I.F.=4.457) ☆

45. C.-H. Huang, T.-M. Chen, and B.-M. Cheng(鄭炳銘), "*Luminescence Investigation on Ultraviolet-emitting Rare-earth-doped Phosphors Using Synchrotron Radiation*", Inorg. Chem. **50**, 6552 (2011). (I.F.=4.325) ☆

46. Z. S. Lin, F. C. Lo, C. H. Li, C. H. Chen, W. N. Huang, I. J. Hsu, J. F. Lee(李志甫), J. C. Horng, and W. F. Liaw, "*Peptide-bound Dinitrosyliron Complexes (DNICs) and Neutral/Reduced-form Roussin's Red Esters (RREs/rRREs): Understanding Nitrosylation of [Fe-S] Clusters Leading to the Formation of DNICs and RREs Using a De Novo Design Strategy*", Inorg. Chem. **50**, 10417 (2011). (I.F.=4.325) ☆

47. T. T. Lu, S. H. Lai, Y. W. Li, I. J. Hsu, L. Y. Jang(張凌雲), J. F. Lee(李志甫), I. C. Chen, and W. F. Liaw, "*Discrimination of Mononuclear and Dinuclear Dinitrosyl Iron Complexes (DNICs) by S K-edge X-ray Absorption Spectroscoy: Insight into the Electronic Structure and Reactivity of DNICs*", Inorg. Chem. **50**, 5396 (2011). (I.F.=4.325) ☆

48. C.-C. Wang, C.-C. Yang, C.-T. Yeh, K. Y. Cheng, P. C. Chang, M.-L. Ho, G.-H. Lee, W.-J. Shih(施韋如), and H.-S. Sheu(許火順), "*Reversible Solid-State Structural Transformation of a 1D-2D Coordination Polymer by Thermal De/Rehydration Processes*", Inorg. Chem. **50**, 597 (2011). (I.F.=4.325) ☆

49. C.-Y. Chang, Y.-C. Lee, P.-J. Wu(吳品鈞), J.-Y. Liou, Y.-S. Sun, and B.-T. Ko, "*Micellar Transitions in Solvent-annealed Thin Films of an Amphiphilic Block Copolymer Controlled with Tunable Surface Fields*", Langmuir **27**, 14545 (2011). (I.F.=4.269) ☆

50. W.-C. Yen, Y.-H. Lee, J.-F. Lin, C.-A. Dai, U.-S. Jeng(鄭有舜), and W.-F. Su(林唯芳), "*Effect of TiO_2 Nanoparticles on Self-assembly Behaviors and Optical and Photovoltaic Properties of the P3HT-b-P2VP Block Copolymer*", Langmuir **27**, 109 (2011). (I.F.=4.268) ☆

51. V. Drozd, H. T. Kuo, N. Bagkar, S. Mylswamy, R. S. Liu, V. Paul-Boncour, I. Marchuk, S. M. Filipek, C. C. Chou, C. P. Sun, H. D. Yang, and J. M. Chen(陳錦明), "*Structural, Electronic and Magnetic Properties of* $YFeMnH_5$", Int. J. Hydrog. Energy **36**, 1046 (2011). (I.F.=4.053) ☆

52. Y. C. Wei, C. W. Liu, H. W. Lee, S. R. Chung, S. L. Lee, T. S. Chan(詹丁山), J. F. Lee(李志甫), and K. W. Wang, "*Synergistic Effect of Co Alloying and Surface Oxidation on Oxygen Reduction Reaction Performance for the Pd Electrocatalysts*", Int. J. Hydrog. Energy **36**, 3789 (2011). (I.F.=4.053) ☆

53. J.-W. Chang, P.-W. Liang, M.-W. Lin, T.-F. Guo, T.-C. Wen, and Y.-J. Hsu(許瑤真), "*An Ambipolar to n-type Transformation in Pentacene-based Organic Field-effect Transistors*", Org. Electron. **12**, 509 (2011). (I.F.=4.029) ☆

54. Y.-H. Chen, Y.-J. Cheng, G.-R. Lee, C.-I. Wu, and T.-W. Pi(皮敦文), "*Improvements of Electron Injection Efficiency Using Subphthalocyanine Mixed with Lithium Fluoride in Cathode Structures of Organic Light Emitting Diodes*", Org. Electron. **12**, 562 (2011). (I.F.=4.029) ☆

55. C.-C. Wang, F.-C. Liu, C.-K. Chiu, Y. Song, S.-C. Wang, Y. Wang, G.-H. Lee, H.-S. Sheu(許火順), and E.-C. Yang, "*Synthesis, Structural Characterization and Magnetic Behavior of a 2D Bi-layer MOF,* $\{[Ni_2(C_5O_5)_2(bpe)_2].H_2O\}_n$ *(bpe=1,2-bis(4-pyridyl)ethylene)*", CrystEngComm **13**, 118 (2011). (I.F.=4.006) ☆

56. C.-C. Wang, W.-C. Chung, H.-W. Lin, S.-C. Dai, J.-S. Shiu, G.-H. Lee, H.-S. Sheu(許火順), and W. Lee, "*Assembly of Two Zinc(II)-squarate Coordination Polymers with Noncovalent and Covalent Bonds Derived from Flexible Ligands, 1,2-bis(4-pyridyl)Ethane (dpe)*", CrystEngComm **13**, 2130 (2011). (I.F.=4.006) ☆

57. J.-W. Chang, P.-W. Liang, M.-W. Lin, T.-F. Guo, T.-C. Wen, and Y.-J. Hsu(許瑤真), "*An Ambipolar to n-type Transformation in Pentacene-based Organic Field-effect Transistors*", Org. Electron. **12**, 509 (2011). (I.F.=3.998) ☆

58. C.-C. Chiang, W.-C. Tsai, L.-W. Wang, H.-C. Hou, J.-W. Liao, H.-J. Lin(林宏基), F.-H. Chang(張凡修), B. J. Kirby, and C.-H. Lai, "*(001) FePt Graded Media with PtMn underlayers*", Appl. Phys. Lett. **99**, 212504 (2011). (I.F.=3.841) ☆

59. H.-C. Hou, D. Suess, J.-W. Liao, M.-S. Lin, H.-J. Lin(林宏基), F.-H. Chang(張凡修), and C.-H. Lai, "*Direct Probing Magnetization Reversal of Exchange-coupled-composite Media by X-ray Magnetic Circular Dichroism*", Appl. Phys. Lett. **98**, 262507 (2011). (I.F.=3.841) ☆

60. C. T. Kuo, S. C. Lin, K. K. Chang, H. W. Shiu, L. Y. Chang, C. H. Chen(陳家浩), S. J. Tang, and S. Gwo, "*Is Electron Accumulation Universal at InN Polar Surfaces?*", Appl. Phys. Lett. **98**, 052101 (2011). (I.F.=3.841) ☆

61. C.-T. Kuo, K.-K. Chang, H.-W. Shiu(許紘瑋), C.-R. Liu, L.-Y. Chang(張羅嶽), C.-H. Chen(陳家浩), and S. Gwo, "*Natural Band Alignments of InN/GaN/AlN Nanorod Heterojunctions*", Appl. Phys. Lett. **99**, 122101 (2011). (I.F.=3.841) ☆

62. C.-T. Kuo, K.-K. Chang, H.-W. Shiu(許紘瑋), S.-C. Lin, C.-H. Chen(陳家浩), and S. Gwo, "*Spontaneous-polarization-induced Heterojunction Asymmetry in III-nitride Semiconductors*", Appl. Phys. Lett. **99**, 022113 (2011). (I.F.=3.841) ☆

63. S. C. Ray, H. C. Hsueh, C. H. Wu, C. W. Pao, K. Asokan, M. T. Liu, H. M. Tsai, C. H. chuang, W. F. Pong, J. W. Chiou, M. H. Tsai, J. M. Lee, L. Y. Jang(張凌雲), J. M. Chen(陳錦明), and J. F. Lee(李志甫), "*Loycal Atomic and Electronic Structures and Ferroelectric Properties of* $PbZr_{0.52}Ti_{0.48}O_3$*: an X-ray Absorption Study*", Appl. Phys. Lett. **99**, 042909 (2011). (I.F.=3.841) ☆

64. Y. L. Soo, T. S. Wu, C. S. Wang, S. L. Chang(張石麟), H. Y. Lee, P. P. Chu, C. Y. Chen, L. J. Chou, T. S. Chan(詹丁山), C. A. Hsieh(謝承安), J. F. Lee(李志甫), J. Kwo, and M. Hong, "*Thermal Annealing and Grain boundary Effects on ferromagnetism in* Y_2O_3*: Co Diluted Magnetic Oxide Nanocrystals*", Appl. Phys. Lett. **98**, 031906 (2011). (I.F.=3.841) ☆

65. C.-H. Su, H. Chen, H.-Y. Lee(李信義), and A. T. Wu, "*Controlled Positions and Kinetic Analysis of Spontaneous Tin Whisker Growth*", Appl. Phys. Lett. **99**, 131906 (2011). (I.F.=3.841) ☆

66. Y.-S. Sun(孫亞賢), S.-W. Chien, J.-Y. Liou, C.-H. Su(蘇秋琿), and K.-F. Liao(廖桂芬), "*Film Instability Induced Evolution of Hierarchical Structures in Annealed Ultrathin Films of an Asymmetric Block Copolymer on Polar Substrates*", Polymer **52**, 1180 (2011). (I.F.=3.829) ☆

67. H.-C. Chan, Y.-T. Huang, S.-Y. Lyu, C.-J. Huang, Y.-S. Li, Y.-C. Liu, C.-C. Chou(周家丞), M.-D.Tsai, and T.-L. Li(李宗璘), "*Regioselective Deacetylation Based on Teicoplanin-complexed Orf2* Crystal Structures*", Mol. BioSyst. **7**, 1224 (2011). (I.F.=3.825) ☆

68. P.-W. Chen, Y.-H. Lu, T.-R. Chang, C.-B. Wang, L.-Y. Liang, C.-H. Lin, C.-M. Cheng(鄭澄懋), K.-D. Tsuei(崔古鼎), H.-T. Jeng, and S.-J. Tang, "*Consonant Diminution of Lattice and Electronic Coupling between a Film and a Substrate: Pb on Ge(100)*", Phys. Rev. B **84**, 205401 (2011). (I.F.=3.772) ☆

69. F.-K. Chiang, M.-W. Chu, F. C. Chou(周方正), H. T. Jeng, H. S. Sheu(許火順), F. R. Chen, and C. H. Chen, "*Effect of Jahn-teller Distortion on Magnetic Ordering in Dy(Fe,Mn)O_3 Perovskites*", Phys. Rev. B **83**, 245105 (2011). (I.F.=3.772) ☆

70. D. G. Hawthorn, K. M. Shen, J. Geck, D. C. Peets, H. Wadati, J. Okamoto(岡本淳), S.-W. Huang(黃詩雯), D. J. Huang(黃迪靖), H.-J. Lin(林宏基), J. D. Denlinger, R. Liang, D. A. Bonn, W. N. Hardy, and G. A. Sawatzky, "*Resonant Elastic Soft X-ray Scattering in Oxygen-ordered $YBa_2Cu_3O_{6+\delta}$*", Phys. Rev. B **84**, 075125 (2011). (I.F.=3.772) ☆

71. T. Kataoka, Y. Yamazaki, V. R. Singh, A. Fujimori, F.-H. Chang(張凡修), H.-J. Lin(林宏基), D. J. Huang(黃迪靖), C. T. Chen(陳建德), G. Z. Xing, J. W. Seo, C. Panagopoulos, and T. Wu, "*Ferromagnetic Interaction between Cu Ions in the Bulk Region of Cu-doped ZnO Nanowires*", Phys. Rev. B **84**, 153203 (2011). (I.F.=3.772) ☆

72. H. Ozawa, K. Hirose, K. Ohta, H. Ishii(石井啟文), N. Hiraoka(平岡望), Y. Ohishi, and Y. Seto, "*Spin Crossover, Structural Change, and Metallization in NiAs-type FeO at High Pressure*", Phys. Rev. B **84**, 134417 (2011). (I.F.=3.772) ☆

73. C. W. Pao, C. T. Wu, H. M. Tsai, Y. S. Liu, C. L. Chang, W. F. Pong, J. W. Chiou, C. W. Chen, M. S. Hu, M. W. Chu, L. C. Chen, C. H. Chen, K. H. Chen, S. B. Wang, S. J. Chang, M. H. Tsai, H. J. Lin(林宏基), J. F. Lee(李志甫), and J. H. Guo, "*Photoconduction and the Electronic Structure of Silica Nanowires Embedded with Gold Nanoparticles*", Phys. Rev. B **84**, 165412 (2011). (I.F.=3.772) ☆

74. B. Y. Wang, N. Y. Jih, W. C. Lin, C. H. Chuang, P. J. Hsu, C. W. Peng, Y. C. Yeh, Y. L. Chan(陳悅來), D. H. Wei(魏德新), W. C. Chiang, and M.-T. Lin, "*Driving Magnetization Perpendicular by Antiferromagnetic-ferromagnetic Exchange Coupling*", Phys. Rev. B **83**, 104417 (2011). (I.F.=3.772) ☆

75. C.-L. Wu, P.-W. Lee, Y.-C. Chen, L.-Y. Chang(張羅嶽), C.-H. Chen(陳家浩), C.-W. Liang, P. Yu, Q. He, R. Ramesh, and Y.-H. Chu, "*Direct Spectroscopic Evidence of Charge Reversal at the $Pb(Zr_{0.2}Ti_{0.8})$ $O_3/La_{0.7}Sr_{0.3}MnO_3$ Heterointerface*", Phys. Rev. B **83**, 020103(R) (2011). (I.F.=3.772) ☆

76. H. Yamaoka, I. Jarrige, N. Tsujii, M. Imai, J.-F. Lin, M. Matsunami, R. Eguchi, M. Arita, K. Shimada, H. Namatame, M. Taniguchi, M. Taguchi, Y. Senba, H. Ohashi, N. Hiraoka(平岡望), H. Ishii(石井啟文), and K.-D. Tsuei(崔古鼎), "*Electronic Structure of $YbGa_{1.15}Si_{0.85}$ and $YbGa_xGe_{2-x}$ Probed by Resonant X-ray Emission and Photoelectron Spectroscopies*", Phys. Rev. B **83**, 104525 (2011). (I.F.=3.772) ☆

77. M. G. Mostafa, Y.-H. Chen, J.-S. Jean, C.-C. Liu, and Y.-C. Lee(李耀昌), "*Kinetics and Mechanism of Arsenate Removal by Nanosized Iron Oxide-coated Perlite*", J. Hazard. Mater. **187**, 89 (2011). (I.F.=3.723) ☆

78. T. R. Ling, C. S. Li, J. J. Jow, and J. F. Lee(李志甫), "*Mesoporous Nickel Electrodes Plated with Gold for the Detection of Glucose*", Electrochim. Acta **56**, 1043 (2011). (I.F.=3.642) ☆

79. C.-Y. Tai, J.-L. Chang, J.-F. Lee(李志甫), T.-S. Chan(詹丁山), and J.-M. Zen, "*Preparation and Characterization of an $AuCu_3$ Alloy Electrode for Electrocatalytic Applications*", Electrochim. Acta **56**, 3115 (2011). (I.F.=3.642) ☆

80. M.-C. Lin, Y.-C. Wang, H.-L. Chen, A. J. Muller, C.-J. Su(蘇群仁), and U.-S. Jeng(鄭有舜), "*Critical Analysis of the Crystal Orientation Behavior in Polyethylene-based Crystalline-amorphous Diblock Copolymer*", J. Phys. Chem. B **115**, 2494 (2011). (I.F.=3.603) ☆

81. C. L. Chen, C. L. Dong, J. L. Chen, J. H. Guo, W. L. Yang, C. C. Hsu, K. W. Yeh, T. W. Huang, B. H. Mok, T. S. Chan(詹丁山), J. F. Lee(李志甫), C. L. Chang, S. M. Rao, and M. K. Wu, "*X-ray Spectra and Electronic Correlations of $FeSe_{1-x}Te_x$*", Phys. Chem. Chem. Phys. **13**, 15666 (2011). (I.F.=3.453) ☆

82. G.-R. Hu, C.-S. Chao, H.-W. Shiu, C.-T. Wang, W.-R. Lin, Y.-J. Hsu(許瑤真), and M.-F. Luo, "*Low-temperature Decomposition of Methanol on Au Nanoclusters Supported on a Thin Film of Al_2O_3/NiAl(100)*", Phys. Chem. Chem. Phys. **13**, 3281 (2011). (I.F.=3.453) ☆

83. M.-F. Luo, C.-C. Wang, C.-S. Chao, C.-Y. Ho, C.-T. Wang, W.-R. Lin, Y.-C. Lin, Y.-L. Lai, and Y.-J. Hsu(許瑤真), "*Temperature-dependent Structuring of Au-Pt Bimetallic Nanoclusters on a Thin Film of Al_2O_3/NiAl(100)*", Phys. Chem. Chem. Phys. **13**, 1531 (2011). (I.F.=3.453) ☆

84. J.-M. Song, G.-D. Chiou, W.-T. Chen, S.-Y. Chen, T.-H. Kao, I.-G. Chen, and H.-Y. Lee(李信義), "*Observations on PVP-protected Noble Metallic Nanoparticle Deposits upon Heating via in situ Synchrotron Radiation X-ray Diffraction*", Phys. Chem. Chem. Phys. **13**, 5099 (2011). (I.F.=3.453) ☆

85. R. S. Devan, S.-Y. Gao, Y.-R. Lin, S.-R. Cheng, C.-E. Hsu, C.-H. Chen(陳家浩), H.-W. Shiu(許紘偉), Y. Liou, and Y.-R. Ma, "*Scanning Photoemission Spectromicroscopic Study of 4-nm Ultrathin $SiO_{3.4}$ Protrusions Probe-Induced on the Native SiO_2 Layer*", Microsc. Microanal. **17**, 944 (2011). (I.F.=3.259) ☆

86. S.-L. Wang and J.-F. Lee(李志甫), "*Reaction Mechanism of Hexavalent Chromium with Cellulose*", Chem. Eng. J. **174**, 289 (2011). (I.F.=3.074) ☆

87. S. Sansenya, R. Opassiri, B. Kuaprasert, C.-J. Chen(陳俊榮), and J. R. K. Cairns, "*The Crystal Structure of Rice (Oryza Sativa L.) Os4BGlu12, an Oligosaccharide and Tuberonic Acid Glucoside-hydrolyzing β-glucosidase with Significant Thioglucohydrolase Activity*", Arch. Biochem. Biophys. **510**, 62 (2011). (I.F.=3.022) ☆

88. C.-J. Chen, Y.-C. Wu, H.-S. Sheu(許火順), G.-H. Lee, and C. K. Lai, "*Synthesis of Quinoxaline-benzoxale Conjugates and Mesomorphic Properties*", Tetrahedron **67**, 114 (2011). (I.F.=3.011) ☆

89. C.-J. Chen, I.-W. Wang, H.-S. Sheu(許火順), G.-H. Lee, and C. K. Lai, "*Metallomesogens Derived from Benzoxazoles-salicylaldimine Conjugates*", Tetrahedron **67**, 8120 (2011). (I.F.=3.011) ☆

90. I.-T. Wu, P.-Y. Chaing, W.-J. Chang, H.-S. Sheu(許火順), G.-H. Lee, and C. K. Lai, "*Columnar/Smectic Metallomesogens Derived from Heterocyclic Benzoxazoles*", Tetrahedron **67**, 7358 (2011). (I.F.=3.011) ☆

91. Y.-M. Chang, J. Shieh, P.-Y. Chu, H.-Y. Lee(李信義), C.-M. Lin, and J.-Y. Juang, "*Enhanced Free Exciton and Direct Band-edge Emissions at Room Temperature in Ultrathin ZnO Films Grown on Si Nanopillars by Atomic Layer Deposition*", ACS Appl. Mater. Interfaces **3**, 4415 (2011). (I.F.=2.925) ☆

92. B. Wu, X. Li, C. Do, T.-H. Kim, C.-Y. Shew, Y. Liu, J. Yang, K. Hong, L. Porcar, C.-Y. Chen(陳軍佑), E. L. Liu, G. S. Smith, K. W. Herwig, and W.-R. Chen, "*Spatial Distribution of Intra-molecular Water and Polymeric Components in Polyelectrolyte Dendrimers Revealed by Small Angle Scattering Investigations*", J. Chem. Phys. **135**, 144903 (2011). (I.F.=2.92) ☆

93. H. Yamaoka, I. Jarrige, N. Tsujii, A. Kotani, J.-F. Lin, F. Honda, R. Settai, Y. Onuki, N. Hiraoka, H. Ishii, and K.-D. Tsuei, "*Pressure and Temperature Dependences of the Electronic Structure of $CeIrSi_3$ Probed by Resonant X-ray Emission Spectroscopy*", J. Phys. Soc. JPN. **80**, 124701 (2011). (I.F.=2.905) ☆

94. C.-H. Ko, F.-J. Chen, J. J. Lee(李之釗), and D.-L. M. Tzou, "*Effects of Fiber Physical and Chemical Characteristics on the Interaction between Endoglucanase and Eucalypt Fibers*", Cellulose **18**, 1043 (2011). (I.F.=2.817) ☆

95. C. L. Chen, S. M. rao, C. L. Dong, J. L. Chen, T. W. Huang, B. H. Mok, M. C. Ling, W. C. Wang, C. L. Chang, T. S. Chan(詹丁山), J. F. Lee(李志甫), J. H. Guo, and M. K. Wu, "*X-ray Absorption Spectroscopy Investigation of the Electronic Structure of Superconducting $FeSe_x$ Single Crystals*", EPL-Europhys. Lett. **93**, 47003 (2011). (I.F.=2.753) ☆

96. B. J. Ratliff, B. W. Alligood, L. J. Butler, S.-H. Lee(李世煌), and J. J.-M. Lin, "*Product Branching from the CH_2CH_2OH Radical Intermediate of the OH + Ethene Reaction*", J. Phys. Chem. A **115**, 9097 (2011). (I.F.=2.732) ☆

97. A. C. Gandhi, C. Y. Huang, C. C. Yang, T. S. Chan(詹丁山), C. L. Cheng, Y. R. Ma, and S. Y. Wu, "*Growth Mechanism and Magnon Excitation in NiO Nanowalls*", Nanoscale Res. Lett. **6**, 485 (2011). (I.F.=2.557) ☆

98. Y.-H. Chen, U.-S. Jeng(鄭有舜), and J.-P. Leu, "*Effect of Curing on the Porogen Size in the Low-k MSQ/SBS Hybrid Films*", J. Electrochem. Soc. **158**, G52 (2011). (I.F.=2.42) ☆

99. D. Y. Wang, L. L. Wang, T. J. Lee, T.-M. Chen, and B.-M. Cheng(鄭炳銘), "*Charge-transfer Luminescence and Energy Transfer in Eu^{2+}-doped Barium Zirconosilicates*", J. Electrochem. Soc. **158**, J377 (2011). (I.F.=2.42) ☆

100. K.-J. Lin, U.-S. Jeng(鄭有舜), and K.-F. Lin, "*Adsorption and Intercalation Processes of Ionic Surfactants on Montmorillonite Associated with Their Ionic Charge*", Mater. Chem. Phys. **131**, 120 (2011). (I.F.=2.356) ☆

101. R. G. Acres, S. L. Harmer, H. W. Shiu(許紘瑋), C.-H. Chen(陳家浩), and D. A. Beattie, "*Synchrotron Scanning Photoemission Microscopy of Homogeneous and Heterogeneous Metal Sulfide Minerals*", J. Synchrotron Radiat. **18**, 649 (2011). (I.F.=2.335) ☆

102. I. Qasim, B. J. Kennedy, Z. Zhang, M. Avdeev, and L.-Y. Jang(張凌雲), "*X-ray Absorption Near Edge Structure and Crystallographic Studies of the Mixed Valence Oxide* $SrRu_{0.8}Ni_{0.2}O_3$", J. Phys.-Condens. Mat. **23**, 435401 (2011). (I.F.=2.332) ☆

103. V. R. Singh, Y. Sakamoto, T. Kataoka, M. Kobayashi, Y. Yamazaki, A. Fujimori, F.-H. Chang(張凡修), D.-J. Huang(黃迪靖), H.-J. Lin(林宏基), C. T. Chen(陳建德), H. Toyosaki, T. Fukumura, and M. Kawasaki, "*Bulk and Surface Magnetization of Co Atoms in Rutile* $Ti_{1-x}Co_xO_{2-\delta}$ *Thin Films Revealed by X-ray Magnetic Circular Dichroism*", J. Phys.-Condens. Mat. **23**, 176001 (2011). (I.F.=2.332) ☆

104. Y. Yamazaki, T. Kataoka, V. R. Singh, A. Fujimori, F.-H. Chang(張凡修), D.-J. Huang(黃迪靖), H.-J. Lin(林宏基), C. T. Chen(陳建德), K. Ishikawa, K. Zhang, and S. Kuroda, "*Effect of Co-doping of Donor and Acceptor Impurities in the Ferromagnetic Semiconductor* $Zn_{1-x}Cr_xTe$ *Studied by Soft X-ray Magnetic Circular Dichroism*", J. Phys.-Condens. Mat. **23**, 176002 (2011). (I.F.=2.332) ☆

105. M.-L. Ho, M.-H. Lin, Y.-T. Chen, and H.-S. Sheu(許火順), "*Iridium(III) Complexes in Discs for Two-photon Excitation Applications*", Chem. Phys. Lett. **509**, 162 (2011). (I.F.=2.28) ☆

106. G. Jia, B. M. Cheng(鄭炳銘), C. K. Duan, and P. A. Tanner, "*Low Temperature Photoluminescence of* $Cs_2NaY_{1-x}Er_xCl_6$ *Excited by Synchrotron Radiation*", Chem. Phys. Lett. **515**, 235 (2011). (I.F.=2.28) ☆

107. M. H. Li, H.-L. Chen, Y.-F. Huang, W.-T. Chuang(莊偉綜), Y.-R. Chen, H.-S. Tsai, O. A. Semenikhin, and J. D. White, "*Increased Order and Improved Hole mobility in MEH-PPV Thin Films by Removing Shortest Chains*", Chem. Phys. Lett. **505**, 100 (2011). (I.F.=2.28) ☆

108. S. Shafeie, J. Grins, S. Y. Istomin, L. Karvonen, S. A. Chen(陳興安), T. H. Chen, J. M. Chen(陳錦明), A. Weidenkaff, M. Karppinen, T. Sirtl, and G.Svensson, "*Phase Formation, Crystal Structures and Magnetic Properties of Perovskite-type Phases in the System* $La_2Co_{1+z}(Mg_xTi_{1-x})_{1-z}O_6$", J. Solid State Chem. **184**, 177 (2011). (I.F.=2.261) ☆

109. C. H. Hsu, B. M. Cheng(鄭炳銘), and C. H. Lu, "*Structure and Novel Optical Characteristics of* $SrSi_2O_2N_2:Ce^{3+}/Tb^{3+}$ *Oxynitride Phosphors*", J. Am. Ceram. Soc. **94**, 3256 (2011). (I.F.=2.167) ☆

110. C. H. Hsu, B. M. Cheng(鄭炳銘), and C. H. Lu, "*Photoluminescent Properties and Energy Transfer Mechanism of Color-tunable* $CaSi_2O_2N_2$*:* Ce^{3+}, Eu^{2+} *Phosphors*", J. Am. Ceram. Soc. **94**, 2878 (2011). (I.F.=2.167) ☆

111. Y.-S. Lin, J.-G. Duha, and H.-S. Sheu(許火順), "*The Phase Transformations and Cycling Performance of Copper-tin Alloy Anode Materials Synthesized by Sputtering*", J. Alloy. Compounds **509**, 123 (2011). (I.F.=2.134) ☆

112. C.-P. Cheng, W.-Y. Chen, C.-H. Wei(魏竟軒), and T.-W. Pi(皮敦文), "*Effect of K Doping on CuPc:* C_{60} *Heterojunctions*", J. Appl. Phys. **110**, 113714 (2011). (I.F.=2.079) ☆

113. N. C. Das, N. K. Sahoo, D. Bhattacharyya, S. Thakur, D. Nanda, S. Hazra, J. K. Bal, J. F. Lee(李志甫), Y. L. Tai, and C. A. Hsieh, "*Modifications of Local Structures of* Gd_2O_3 *on Incorporation of* SiO_2", J. Appl. Phys. **110**, 063527 (2011). (I.F.=2.064) ☆

114. H.-C. Hou, J.-W. Liao, M.-S. Lin, H.-J. Lin(林宏基), F.-H. Chang(張凡修), R.-Z. Chen, C.-H. Chiu, and C.-H. Lai, "*Optimization of Exchange Coupled Composite Media by Tuning the Anisotropy in a Laminated Soft Layer*", J. Appl. Phys. **109**, 07C104 (2011). (I.F.=2.064) ☆

115. W. H. Huang, S. J. Sun, J. W. Chiou, H. Chou, T. S. Chan(詹丁山), H.-J. Lin(林宏基), K. Kumar, and J.-H. Guo, "*Electronic Structure of Al-doped ZnO Transparent Conductive Thin Films Studied by X-ray Absorption and Emission Spectroscopies*", J. Appl. Phys. **110**, 103705 (2011). (I.F.=2.079) ☆

116. J. K. Mei, F. T. Yuan, W. M. Liao, Y. D. Yao, H. M. Lin, H. Y. Lee(李信義), and J. H. Hsu, "*Effect of Initial Stress/Strain State on Formation of (001) Preferred Orientation in* $L1_0$ *FePt Thin Films*", J. Appl. Phys. **109**, 07A737 (2011). (I.F.=2.064) ☆

117. Y.-W. Tsai, C.-H. Chu, M.-T. Tang(湯茂竹), Y. P. Stetsko, L.-J. Chou, and S.-L. Chang(張石麟), "*Measuring Lattice Parameter of Iron Silicides Using X-ray Bragg-surface Diffraction Diffraction*", J. Appl. Phys. **109**, 013514 (2011). (I.F.=2.064) ☆

118. T. H. Wang, Y. Ding, C. S. Tu, Y. D. Yao, K. T. Wu, T. C. Lin, H. H. Yu, C. S. Ku, and H. Y. Lee(李信義), "*Structure, Magnetic, and Dielectric Properties of (1-x)$BiFeO_3$-x$BatiO_3$ Ceramics*", J. Appl. Phys. **109**, 07D907 (2011). (I.F.=2.064) ☆

119. C.-Y. Yang, C.-C. Huang, Y.-C. Tseng, C.-M. Liu, C. Chen, and H.-J. Lin(林宏基), "*Coupled Microstructural and Magnetic Transition in Co-doped Ni Nano-arrays*", J. Appl. Phys. **110**, 073913 (2011). (I.F.=2.064) ☆

120. F. T. Yuan, A. C. Sun, J. K. Mei, W. M. Liao, J. H. Hsu, and H. Y. Lee(李信義), "*Low Temperature Growth of FePt and CoPt Films on MgO(111) Substrate*", J. Appl. Phys. **109**, 07B743 (2011). (I.F.=2.064) ☆

121. F. T. Yuan, A. C. Sun, J. H. Hsu, C. S. Tan, P. C. Kuo, W. M. Liao, and H. Y. Lee(李信義), "*Coercivity Enhancement in $L1_1$ $Co_{50-x}Cu_xPt_{50}$ Thin Films*", J. Appl. Phys. **109**, 07B714 (2011). (I.F.=2.064) ☆

122. D.-Y. Wang, T.-M. Chen, and B.-M. Cheng(鄭炳銘), "*Charge Transfer Luminescence of Several Zirconium-containing Compounds Using Synchrotron Radiation*", Electrochem. Solid St. Lett. **14**, J61 (2011). (I.F.=1.967) ☆

123. L. F. Zhu, L. S. Wang, B. P. Xie, K. Yang, N. Hiraoka(平岡望), Y. Q. Cai(蔡永強), and D. L. Feng, "*Inelastic X-ray Scattering Study on the Single Excitations of Helium*", J. Phys. B-At. Mol. Opt. **44**, 025203 (2011). (I.F.=1.902) ☆

124. D. L. Chiang, M. H. Hon, L. G. Teoh, J. Shieh, B. M. Cheng(鄭炳銘), H. C. Lu(盧曉琪), and H. C. Cheng, "*Eliminated UV Light Emitted from Nanostructured Silica Thin Film Using H_2 Plasma by ICP-CVD*", Curr. Nanosci. **7**, 240 (2011). (I.F.=1.879) ☆

125. S. C. Ray, H. M. Tsai, C. W. Pao(包志文), W. H. Chang, W. F. Pong, J. W. Chiou, and M. H. Tsai, "*Electronic and Bonding Properties of Fe- and Ni Based Hydrogenated Amorphous Carbon Thin Films by X-ray Absorption, Valence-band Photoemission and Raman Spectroscopy*", Diam. Relat. Mater. **20**, 886 (2011). (I.F.=1.825) ☆

126. J. W. Chiou, S. Y. Chang, W. H. Huang, Y. T. Chen, C. W. Hsu, Y. M. Hu, J. M. Chen(陳錦明), C.-H. Chen(陳家浩), K. Kumar, and J.-H. Guo, "*The Characterization of Cr Secondary Oxide Phases in ZnO Films Studied by X-ray Spectroscopy and Photoemission Spectroscopy*", Appl. Surf. Sci. **257**, 4863 (2011). (I.F.=1.793) ☆

127. C. I. Hong, H. Y. Kang, H. P. Wang, W. K. Lin, U. S. Jeng(鄭有舜), and C. H. Su, "*Cu-ZnO@C Nanoreactors Studied by in Situ Synchrotron SAXS Spectroscopy*", J. Electron Spectrosc. **184**, 301 (2011). (I.F.=1.75) ☆

128. C. Y. R. Wu, J.-I. Lo, Y.-C. Lin, H.-S. Fung(馮學深), Y.-Y. Lee(李英裕), T.-S. Yih, and D. L. Judge, "*Rotationally Resolved Fluorescence Excitation Spectrum Produced through Photoexcitation of the Coupled $c'_4(0)$ and b'(1) States of N_2*", J. Electron Spectrosc. **184**, 149 (2011). (I.F.=1.75) ☆

129. C.-R. Lin, W.-H. Liao, D.-H. Wei, C.-K. Chang, W.-C. Fang, C.-L. Chen, C.-L. Dong(董崇禮), J.-L. Chen, and J.-H. Guo, "*Improvement on the Synthesis Technique of Ultrananocrystalline Diamond Films by Using Microwave Plasma Jet Chemical Vapor Deposition*", J. Cryst. Growth **326**, 212 (2011). (I.F.=1.746) ☆

130. T.-H. Wang, C.-S. Tu, Y. Ding, T.-C. Lin, C.-S. Ku, W.-C. Yang, H.-H. Yu, K.-T. Wu, Y.-D. Yao, and H.-Y. Lee(李信義), "*Phase Transition and Ferroelectric Properties of x$BiFeO_3$-1-(1-x)$BaTiO_3$ Ceramics*", Curr. Appl. Phys. **11**, S240 (2011). (I.F.=1.74) ☆

131. C.-C. Lo, C.-C. Huang, C.-M. Liu, C. Chen, C.-Y. Kuo, H.-J. Lin(林宏基), and Y.-C. Tseng, "*Magnetic Properties of Electroless-deposited Ni and Ni-NiO Core-shell Nano-arrays*", J. Magn. Magn. Mater. **323**, 1950 (2011). (I.F.=1.689) ☆

132. A. H. M. Selim Reza, J. S. Jean, H.-J. Yang, M.-K. Lee, H.-F. Hsu, C.-C. Liu, Y.-C. Lee(李耀昌), J. Bundschuh, K.-H. Lin, and C.-Y. Lee, "*A Comparative Study on Arsenic and Humic Substances in Alluvial Aquifers of Bengal Delta Plain(NW Bangladesh), Chianan Plain(SW Taiwan) and Lanyang Plain (NE Taiwan): Implication of Arsenic Mobilization Mechanisms*", Environ. Geochem. Health **33**, 235 (2011). (I.F.=1.66) ☆

133. Y. H. Chang, M. L. Huang, P. Chang, C. A. Lin, Y. J. Chu, B. R. Chen, C. L. Hsu, J. Kwob, T. W. Pi(皮敦文), and M. Hong, "*Electrical Properties and Interfacial Chemical Environments of in situ Atomic Layer Deposited Al_2O_3 on Freshly Molecular Beam Epitaxy Grown GaAs*", Microelectron. Eng. **88**, 440 (2011). (I.F.=1.569) ☆

134. C.-H. Lin, C.-H. Fong, Y.-M. Lin, Y.-Y. Lee(李英裕), H.-S. Fung(馮學深), B.-Y. Shew(許博淵), and J. Shieh, "*EUV Interferometric Lithography and Structural Characterization of an EUV Diffraction Grating with Nondestructive Spectroscopic Ellipsometry*", Microelectron. Eng. **88**, 2639 (2011). (I.F.=1.569) ☆

135. B. H. Mok, C. L. Chen, H. H. Hsieh, S. M. Rao, T. W. Huang, C. L. Dong(董崇禮), M. C. Ling, W. C. Wang, M. K. Wu, and T. B. Wu, "*Investigation of the Structural Distortion in $FeSe_x$ Crystals by X-ray Absorption Near Edge Structures (XANES) Spectroscopy*", J. Phys. Chem. Solids **72**, 527 (2011). (I.F.=1.381) ☆

136. B. A. Wallace, K. Gekko, S. V. Hoffmann, Y.-H. Lin(林易弘), J. C. Sutherland, Y. Tao, F. Wien, and R. W. Janes, "*Synchrotron Radiation Circular Dichroism (SRCD) Spectroscopy: An Emerging Method in Structural Biology for Examining Protein Conformations and Protein Interactions*", Nucl. Instrum. Meth. A **649**, 177 (2011). (I.F.=1.142) ☆

137. S. Kar, J. P. Maity, J.-S. Jean, C.-C. Liu, B. Nath, Y.-C. Lee(李耀昌), J. Bundschuh, C.-Y. Chen, and Z. Li, "*Role of Organic Matter and Humic Substances in the Binding and Mobility of Arsenic in a Gangetic Aquifer*", J. Environ. Sci. Heal. A **46**, 1231 (2011). (I.F.=1.107) ☆

138. Y.-J. Chen, M. Nuevo, C.-C. Chu, Y.-G. Fan, T.-S. Yih, W.-H. Ip, H.-S. Fung(馮學深), and C.-Y. R. Wu, "*Photo-desorbed Species Produced by the UV/EUV Irradiation of an H_2O:CO_2:NH_3 Ice Mixture*", Adv. Space Res. **47**, 1633 (2011). (I.F.=1.076) ☆

139. J. K. Mei, F. T. Yuan, W. M. Liao, A. C. Sun, Y. D. Yao, H. M. Lin, J. H. Hsu, and H. Y. Lee(李信義), "*Critical Thickness of (001) Texture Induction in FePt Thin Films on Glass Substrates*", IEEE T. Magn. **47**, 3633 (2011). (I.F.=1.052) ☆

140. J. K. Mei, F. T. Yuan, W. M. Liao, Y. D. Yao, H. M. Lin, J. H. Hsu, and H. Y. Lee(李信義), "*Rapid Thermal Annealing Induced Metastable Phase in FePt Thin Films*", IEEE T. Magn. **47**, 3629 (2011). (I.F.=1.052) ☆

141. S. Hosokawa, N. Happo, K. Hayashi, K. Mimura, K. Wakita, W. Hu, H. Ishii(石井啟文), M. Yoshimura(吉村政人), J. Jeyakanthan, and N. Mamedov, "*Three-dimensional Atomic Images of $TlInSe_2$ Thermoelectric Material Obtained by X-ray Fluorescence Holography*", Jpn. J. Appl. Phys. 1 **50**, 05FC06 (2011). (I.F.=1.018) ☆

142. C. P. Yuan, S. Y. Lin, T. H. Chang, and B. Y. Shew(許博淵), "*Millimeter-wave Bragg Diffraction of Microfabricated Crystal Structures*", Am. J. Phys. **79**, 619 (2011). (I.F.=0.791) ☆

143. C. C. Wu, B. M. Cheng(鄭炳銘), and T. M. Chen, "*Synthesis and Photoluminescence Properties of $(Ca,Ln)_3(PO_4)_2$.(Ln^{3+}=Tm^{3+} or Ce^{3+} Phosphors Under VUV Excitation*", J. Ceram. Process. Res. **12**, s55 (2011). (I.F.=0.481) ☆

144. Q. He, Y.-H. Chu, J. T. Heron, S. Y. Yang, W. I. Liang, C. Y. Kuo(郭昌洋), H. J. Lin(林宏基), P. Yu, C. W. Liang, R. J. Zeches, W. C. Kuo, J. Y. Juang, C. T. Chen, E. Arenholz, A. Scholl, and R. Ramesh, "*Electrically Controllable Spontaneous Magnetism in Nanoscale Mixed Phase Multiferroics*", Nat. Commun. **2**, 225 (2011). (I.F.=0) ☆

145. A. Q. Hernandez, Y. Y. Lee(李英裕), T.-P. Huang(黃自平), W.-C. Pan, R. A. Mata, and A. M. Wodtke, "*Photoionization of CH_3N_3 Produces $^3B_2$ N_3^-: a Theoretical and Experimental Study of the Ion-pair Channel*", J. Phys. Chem. Lett. **2**, 2311 (2011). ☆

協助性之 SCI 論文

1. C. C. Wu, T. K. Li, L. Farh, L. Y. Lin, T. S. Lin, Y. J. Yu, T. J. Yen, C. W. Chiang, and N. L. Chan(詹迺立), "*Structural Basis of Type II Topoisomerase Inhibition by the Anticancer Drug Etoposide*", Science **333**, 459 (2011). (I.F.=31.364) ◆

2. Y.-Y. Hsiao, C.-C. Yang, C.-L. Lin, J. L. J. Lin, Y. Duh, and H. S. Yuan(袁小玲), "*Structural Basis for RNA Trimming by RNase T in Stable RNA 3'-end Maturation*", Nat. Chem. Biol. **7**, 236 (2011). (I.F.=15.808) ◆

3. Y. C. Liu, Y. S. Li, S. Y. Lyu, L. J. Hsu, Y. H. Chen, Y. T. Huang, H. C. Chan, C. J. Huang, G. H. Chen, C. C. Chou, M. D. Tsai, and T. L. Li(李宗璘), "*Interception of Teicoplanin Oxidation Intermediates Yields New Antimicrobial Scaffolds*", Nat. Chem. Biol. **7**, 304 (2011). (I.F.=15.808) ◆

4. H.-Y. Hsueh, Y.-C. Huang, R.-M. Ho(何榮銘), C.-H. Lai, T. Makida, and H. Hasegawa, "*Nanoporous Gyroid Nickel from Block Copolymer Templates via Electroless Plating*", Adv. Mater. **23**, 3041 (2011). (I.F.=10.857) ◆

5. S.-C. Liao, P.-Y. Tsai, C.-W. Liang, H.-J. Liu, J.-C. Yang, S.-J. Lin, C.-H. Lai, and Y.-H. Chu(朱英豪), "*Misorientation Control and Functionality Design of Nanopillars in Self-assembled Perovskite-spinel Heteroepitaxial Nanostructures*", ACS Nano **5**, 4118 (2011). (I.F.=9.855) ◆

6. X. Tang, C. Yang, Y. Gu, C. Song, X. Zhang, Y. Wang, J. Zhang, C. L. Hew, S. Li, N. Xia, and J. Sivaraman, "*Structural Basis for the Neutralization and Genotype Specificity of Hepatitis E Virus*", P. Natl. Acad. Sci. USA **108**, 10266 (2011). (I.F.=9.771) ◆

7. Y. H. Chang, C. L. Su. R. R. Wu, J. H. Liao, Y. H. Liu, and H. F. Hsu(許鏵芬), "*An Eight-coordinate Vanadium Thiolate Complex with Charge Delocalization Between V(V)-Thiolate and V(IV)-Thiyl Radical Forms*", J. Am. Chem. Soc. **133**, 5708 (2011). (I.F.=9.019) ◆

8. L. R. Tsai, M. H. Chen, C. T. Chien, M. K. Chen, F. S. Lin, K. M. Lin, Y. K. Hwu(胡宇光), C. S. Yang, and S. Y. Lin, "*A Single-monomer Derived Linear-like PEI-co-PEG for siRNA Delivery and Silencing*", Biomaterials **32**, 3647 (2011). (I.F.=7.882) ◆

9. N. Husain, S. Obranic, L. Koscinski, J. Seetharaman, F. Babic, J. M. Bujnicki, G. Maravic-Vlahovicek, and J. Sivaraman, "*Structural Basis for the Methylation of A1408 in 16S rRNA by a Panaminoglycoside Resistance Methyltransferase NpmA from a Clinical Isolate and Analysis of the NpmA Interactions with the 30S Ribosomal Subunit*", Nucleic Acids Res. **39**, 1903 (2011). (I.F.=7.836) ◆

10. I. Jiang, C.-K. Tsai, S.-C. Chen, S.-H. Wang, I, Amiraslanov, C.-F. Chang, W.-J. Wu, J.-H. Tai, Y.-C. Liaw(廖彥銓), and T.-H. Huang(黃太煌), "*Molecular Basis of the Recognition of the Ap65-1 Gene Transcription Promoter Elements by a Myb Protein from the Protozoan Parasite Trichomonas Vaginalis*", Nucleic Acids Res. **39**, 8992 (2011). (I.F.=7.836) ◆

11. F.-L. Hsieh, T.-H. Chang, T.-P. Ko, and A. H.-J. Wang(王惠鈞), "*Structure and Mechanism of an Arabidopsis Medium/Long-chain Length Prenyl Pyrophosphate Synthase*", Plant Physiol. **155**, 1079 (2011). (I.F.=6.451) ◆

12. H.-Y. Wu, M.-S. Liu, T.-P. Lin, and Y.-S. Cheng(鄭貽生), "*Structural and Functional Assays of AtTLP18.3 Identify Its Novel Acid Phosphatase Activity in Thylakoid Lumen*[1[W][OA]]", Plant Physiol. **157**, 1015 (2011). (I.F.=6.451) ◆

13. M.-C. Yang, B. Xu, J.-H. Cheng, C.-J. Pan, B.-J. Hwang(黃炳照), and Y. S. Meng, "*Electronic, Structural, and Electrochemical Properties of* $LiNi_xCu_yMn_{2-x-y}O_4$ *(0 <x <0.5, 0 <y <0.5) High-voltage Spinel Materials*", Chem. Mater. **23**, 2832 (2011). (I.F.=6.397) ◆

14. C.-Y. Yang, K.-H. Chin, M. L.-C. Chuah, Z.-X. Liang, A. H.-J. Wang(王惠鈞), and S.-H. Chou, "*The Structure and Inhibition of a GGDEF Diguanylate Cyclase Complexed with* $(c\text{-di-GMP})_2$ *at the Active Site*", Acta Crystallogr. D **67**, 997 (2011). (I.F.=6.326) ◆

15. C. S. Chen, C. C. Chen, C. T. Chen, adn H. M. Kao(高憲明), "*Synthesis of Cu Nanoparticles in Mesoporous Silica SBA-15 Functionalized with Carboxylic Acid Groups*", Chem. Commun. **47**, 2288 (2011). (I.F.=5.787) ◆

16. N. Chouhan, C. L. Yeh, S.-F. Hu, R.-S. Liu(劉如熹), W.-S. Chang, and K.-H. Chen, "*Photocatalytic CdSe QDs-decorated ZnO nanotubes: an effective Photoelectrode for Splitting Water*", Chem. Commun. **47**, 3493 (2011). (I.F.=5.787) ◆

17. Y.-F. Huang, W.-H. Chiang, P.-L. Tsai, C.-S. Chern, and H.-C. Chiu(邱信程), "*Novel Hybrid Vesicles Co-assembled from a Cationic Lipid and PAAc-g-mPEG with pH-triggered Transmembrane Channels for Controlled Drug Release*", Chem. Commun. **47**, 10978 (2011). (I.F.=5.787) ◆

18. C. C. Ting, C. H. Chung, and H. M. Kao(高憲明), "*Direct Synthesis of Bifunctional Periodic Mesoporous Benzene-silicas Functionalized with a High Loading of Carboxylic Acid Groups*", Chem. Commun. **47**, 5897 (2011). (I.F.=5.787) ◆

19. H. T. Tung, Y. Hwu(胡宇光), I. G. Chen, M. G. Tsai, J. M. Song, I, M. Kempson, and G. Margaritondo, "*Fabrication of Single Crystal* $CuGaS_2$ *Nanorods by X-ray Irradiation*", Chem. Commun. **47**, 9152 (2011). (I.F.=5.787) ◆

20. C. T. Liao, H. H. Chen, H. F. Hsu(徐秀福), A. Poloek, H. H. Yeh, Y. Chi, K. W. Wang, C. H. Lai, G. H. Lee, C. W. Shih, and P. T. Chou, "*Mesomorphism and Luminescence Properties of Platinum(II) Complexes with Tris(alkoxy)phenyl-functionalized Pyridyl Pyrazolate Chelates*", Chem.-Eur. J. **17**, 546 (2011). (I.F.=5.476) ◆

21. C.-Y. Chou, T.-P. Ko, K.-J. Wu, K.-F. Huang, C.-H. Lin, C.-H. Wong, and A. H.-J. Wang(王惠鈞), "*Modulation of Substrate Specificities of D-sialic Acid Aldolase through Single Mutations of Val-251*", J. Biol. Chem. **286**, 14057 (2011). (I.F.=5.328) ◆

22. K.-F. Huang, S.-S. Liaw, W.-L. Huang, C.-Y. Chia, Y.-C. Lo, Y.-L. Chen, and A. H.-J. Wang(王惠鈞), "*Structures of Human Golgi-resident Glutaminyl Cyclase and Its Complexes with Inhibitors Reveal a Large Loop Movement upon Inhibitor Binding*", J. Biol. Chem. **286**, 12439 (2011). (I.F.=5.328) ◆

23. W.-Y. Jeng, N. C. Wang, C. T. Lin, L. F. Shyur, and A. H.-J. Wang(王惠鈞), "*Crystal Structures of the Laminarinase Catalytic Domain from Thermotoga Maritima MSB8 in Complex with Inhibitors: Essential Residues for β-1,3 and β-1,4 Glucan Selection*", J. Biol. Chem. **286**, 45030 (2011). (I.F.=5.328) ◆

24. P.-T. Hsiao, L.-C. Chen, T.-L. Li, and H. Teng(鄧熙聖), "*Vapor Treatment of Nanocrystalline WO_3 Photoanodes for Enhanced Photoelectrochemical Performance in the Decomposition of Water*", J. Mater. Chem. **21**, 19402 (2011). (I.F.=5.099) ◆

25. Y.-C. Huang, J.-H. Hsu, Y.-C. Liao, W.-C.Yen, S.-S. Li, S.-T. Lin, C.-W. Chen, and W.-F. Su(林唯芳), "*Employing an Amphiphilic Interfacial Modifier to Enhance the Performance of a Poly(3-hexyl Thiophene)/TiO_2 Hybrid Solar Cell*", J. Mater. Chem. **21**, 4450 (2011). (I.F.=5.101) ◆

26. Y. G. Lin, Y. K. Hsu, S. Y. Chen, L. C. Chen(林麗瓊), and K. H. Chen, "*Microwave-activated CuO Nanotip/ZnO Nanorod Nanoarchitectures for Efficient Hydrogen Production*", J. Mater. Chem. **21**, 324 (2011). (I.F.=5.099) ◆

27. S. H. Liu(劉守恆), M. T. Wu, Y. H. Lai, C. C. Chiang, N. Yu, and S. B. Liu(劉尚斌), "*Fabrication and Electrocatalytic Performance of Highly Stable and Active Platinum Nanoparticles Supported on Nitrogen-doped Ordered Mesoporous Carbons for Oxygen Reduction Reaction*", J. Mater. Chem. **21**, 12489 (2011). (I.F.=5.099) ◆

28. M.-C. Tzeng, S.-C. Liao, T.-H. Chang, S.-C. Yang, M.-W. Weng, H.-C. Yang, M. Y. Chiang, Z. Kai, J. Wu, and C. W. Ong(王志偉), "*Enforced Liquid Crystalline Properties of Dibenzo[a,c] Phenazine Dimer and Self Assembly*", J. Mater. Chem. **21**, 1704 (2011). (I.F.=5.099) ◆

29. Y.-C. Lo, W. C. Su, T. P. Ko, N. C. Wang, and A. H.-J. Wang(王惠鈞), "*Terpyridine Platinum(II) Complexes Inhibit Cysteine Proteases by Binding to Active-site Cysteine*", J. Biomol. Struct. Dyn. **29**, 267 (2011). (I.F.=4.986) ◆

30. J.-Y. Chen, C.-C. Kuo, C.-S. Lai, W.-C. Chen, and H.-L. Chen(陳信龍), "*Manipulation on the Morphology and Electrical Properties of Aligned Electrospun Nanofibers of Poly(3-hexylthiophene) for Field-effect Transistor Applications*", Macromolecules **44**, 2883 (2011). (I.F.=4.838) ◆

31. Y. Cong, H. Liu, D. Wang, B. Zhao, T. Yan, L. Li, W. Chen, Z. Zhong, M.-C. Lin, H.-L. Chen(陳信龍), and C. Yang, "*Stretch-induced Crystallization through Single Molecular Force Generating Mechanism*", Macromolecules **44**, 5878 (2011). (I.F.=4.837) ◆

32. S. G. Johnston, A. F. Keene, E. D. Burton, R. T. Bush, and L. A. Sullivan, "*Iron and Arsenic Cycling in Intertidal Surface Sediments during Wetland Remediation*", Environ. Sci. Technol. **45**, 2179 (2011). (I.F.=4.825) ◆

33. Y. T. Liu and D. Hesterberg, "*Phosphate Bonding on Noncrystalline Al/Fe-hydroxide Coprecipitates*", Environ. Sci. Technol. **45**, 6283 (2011). (I.F.=4.825) ◆

34. L. C. Chen and S. D. Lin(林昇佃), "*The Ethanol Steam Reforming Over Cu-Ni/SiO_2 Catalysts: Effect of Cu/Ni Ratio*", Appl. Catal. B-Environ. **106**, 639 (2011). (I.F.=4.749) ◆

35. S. H. Liu(劉守恆), F. S. Zheng, and J. R. Wu, "*Preparation of Ordered Mesoporous Carbons Containing Well-dispersed and Highly Alloying Pt-Co Bimetallic Nanoparticles toward Methanol-resistant Oxygen Reduction Reaction*", Appl. Catal. B-Environ. **108-109**, 81 (2011). (I.F.=4.749) ◆

36. Y.-H. Shih(施養信), M.-Y. Chen, and Y.-F. Su, "*Pentachlorophenol Reduction by Pd/Fe Bimetallic Nanoparticles: Effects of Copper, Nickel, and Ferric Cations*", Appl. Catal. B-Environ. **105**, 24 (2011). (I.F.=4.749) ◆

37. L.-Y. Chen(陳良益), Y.-T. Yin, C.-H. Chen, and J.-W. Chiou, "*Influence of Polyethyleneimine and Ammonium on the Growth of ZnO Nanowires by Hydrothermal Method*", J. Phys. Chem. C **115**, 20913 (2011). (I.F.=4.52) ◆

38. J. Du and C. Jing, "*Preparation of Thiol Modified Fe_3O_4@Ag Magnetic SERS Probe for PAHs Detection and Identification*", J. Phys. Chem. C **115**, 17829 (2011). (I.F.=4.52) ◆

39. Y.-C. Fang, H.-C. Lin, I.-J. Hsu, T.-S. Lin, and C.-Y. Mou(牟中原), "*Bioinspired Design of a Cu-Zn- Imidazolate Mesoporous Silica Catalyst System for Superoxide Dismutation*", J. Phys. Chem. C **115** , 20639 (2011). (I.F.=4.52) ◆

40. H.-Y. Hou, H.-H. Wu, J.-Y. Chung, and D.-S. Lin(林登松), "*Adsorption of Diatomic Interhalogens on the Si(100) and Ge(100) Surfaces*", J. Phys. Chem. C **115**, 13262 (2011). (I.F.=4.52) ◆

41. Y.-J. Liou, P.-T. Hsiao, L.-C. Chen, Y.-Y. Chu, and H. Teng(鄧熙聖), "*Structure and Electron-conducting Ability of TiO_2 Films from Electrophoretic Deposition and Paste-coating for Dye-sensitized Solar Cells*", J. Phys. Chem. C **115**, 25580 (2011). (I.F.=4.524) ◆

42. C.-J. Chang, Y.-H. Lee, H.-L. Chen, C.-H. Chiang, H.-F. Hsu, C.-C. Ho, W.-F. Su, and C.-A. Dai(戴子安), "*Effect of Rod-rod Interaction on Self-assembly Behavior of ABC π-conjugated Rod-coil-coil Triblock Copolymers*", Soft Matter **7**, 10951 (2011). (I.F.=4.457) ◆

43. C.-H. Lee and S.-H. Tung(童世煌), "*Microdomain Control in Block Copolymer-based Supramolecular Thin Films Through Varying the Grafting Density of Additives*", Soft Matter **7**, 5660 (2011). (I.F.=4.457) ◆

44. Y.-H. Lee, W.-C. Yen, W.-F. Su, and C.-A. Dai(戴子安), "*Self-assembly and Phase Transformations of π-conjugated Block Copolymers That Bend and Twist: from Rigid-rod Nanowires to Highly Curvaceous Gyroids*", Soft Matter **7**, 10429 (2011). (I.F.=4.457) ◆

45. H.-S. Sun, C.-H. Lee, C.-S. Lai, H.-L. Chen(陳信龍), S.-H. Tung(童世煌), and W.-C. Chen, "*Self-assembled Structures in Rod-coil Block Copolymers with Hydrogen-bonded Amphiphiles*", Soft Matter **7**, 4198 (2011). (I.F.=4.457) ◆

46. C. Chatterjee, S. Kumar, S. Chakraborty, Y. W. Tan, K. Y. Leung, J. Sivaraman, and Y. K. Mok, "*Crystal Structure of the Heteromolecular Chaperone, AscE-AscG, from the Type III Secretion System in Aeromonas Hydrophila*", PLoS One **6**, e19208 (2011). (I.F.=4.411) ◆

47. V. Kumar and J. Sivaraman, "*A Conformational Switch in the Active Site of BT_2972, a Methyltransferase from an Antibiotic Resistant Pathogen B. Thetaiotaomicron*", PLoS One **6** , e27543 (2011). (I.F.=4.411) ◆

48. C.-C. Lee, T.-W. Lin, T.-P. Ko, and A. H.-J. Wang(王惠鈞), "*The Hexameric Structures of Human Heat Shock Protein 90*", PLoS One **6**, e19961 (2011). (I.F.=4.411) ◆

49. T.-N. Li, K.-H. Chin, K.-M. Fung, M.-T. Yang, A. H.-J. Wang(王惠鈞), and S.-H. Chou(周三和), "*A Novel Tetrameric PilZ Domain Structure from Xanthomonads*", PLoS One **6**, e22036 (2011). (I.F.=4.411) ◆

50. C.-J. Lin, W.-K. Tu, C.-K. Kuo, and S.-H. Chien(簡淑華), "*Single-step Fabrication of Phase-controllable Nanocrystalline TiO_2 Films for Enhanced Photoelectrochemical Water Splitting and Dye-sensitized Solar Cells*", J. Power Sources **196**, 4865 (2011). (I.F.=4.283) ◆

51. S.-T. Chen and G.-S. Chen(陳錦山), "*Nanoseeding via Dual Surface Modification of Alkyl Monolayer for Site-controlled Electroless Metallization*", Langmuir **27**, 12143 (2011). (I.F.=4.269) ◆

52. S. F. Lai, W. C. Chen, C. L. Wang, H. H. Chen, S. T. Chen, C. C. Chien, Y. Y. Chen, W. T. Hung, X. Cai, E. Li, I. M. Kempson, Y. Hwu(胡宇光), C. S. Yang, E. S. Tok, H. R. Tan, M. Lin, and G. Margaritondo, "*One-pot Tuning of Au Nucleation and Growth: from Nanoclusters to Nanoparticles*", Langmuir **27**, 8424 (2011). (I.F.=4.268) ◆

53. I. L. Hsiao and Y. J. Huang(黃鈺軫), "*Titanium Oxide Shell Coatings Decrease the Cytotoxicity of ZnO Nanoparticles*", Chem. Res. Toxicol. **24**, 303 (2011). (I.F.=4.148) ◆

54. E. D. Burton, R. T. Bush, S. G. Johnston, L. A. Sullivan, and A. F. Keene, "*Sulfur Biogeochemical Cycling and Novel Fe-S Mineralization Pathways in a Tidally Re-flooded Wetland*", Geochim. Cosmochim. Acta **75**, 3434 (2011). (I.F.=4.101) ◆

55. Y. J. Huang(黃鈺軫), K. L. Ng, and H. Y. Huang, "*The Effect of Gold on the Copper-zinc Oxides Catalyst During the Partial Oxidation of Methanol Reaction*", Int. J. Hydrog. Energy **36**, 15203 (2011). (I.F.=4.053) ◆

56. S. H. Liu(劉守恆) and J. R. Wu, "*Nitrogen-doped Ordered Mesoporous Carbons as Electrocatalysts for Methanol-tolerant Oxygen Reduction in Acid Solution*", Int. J. Hydrog. Energy **36**, 87 (2011). (I.F.=4.053) ◆

57. M. S. S. Manimekalai, A. Kumar, J. Jeyakanthan, and G. Grüber, "*The Transition-like State and P_i Entrance into the Catalytic A Subunit of the Biological Engine A-ATP Synthase* ", J. Mol. Biol. **408**, 736 (2011). (I.F.=4.008) ◆

58. R. Priya, A. Kumar, M. S. S. Manimekalai, and G. Grüber, "*Conserved Glycine Residues in the P-loop of ATP Synthases Form a Doorframe for Nucleotide Entrance*", J. Mol. Biol. **413**, 657 (2011). (I.F.=4.008) ◆

59. Y.-F. Zeng, T.-P. Ko, H.-L. Lai, Y.-S. Cheng, T.-H. Wu, Y. Ma, C.-C. Chen, C.-S. Yang, K.-J. Cheng, C.-H. Huang, R.-T. Guo, and J.-R. Liu(劉嘉睿), "*Crystal Structures of Bacillus Alkaline Phytase in Complex with Divalent Metal Ions and Inositol Hexasulfate*", J. Mol. Biol. **409**, 214 (2011). (I.F.=4.008) ◆

60. H.-C. Lee, H. Lim, W.-F. Su, and C.-Y. Chao(趙基揚), "*Novel Sulfonated Block Copolymer Containing Pendant Alkylsulfonic Acids: Syntheses, Unique Morphologies, and Applications in Proton Exchange Membrane*", J. Polym. Sci. A- Pol. Chem. **49**, 2325 (2011). (I.F.=3.894)

61. J.-Y. Chung, H.-D. Li, W.-H. Chang, T. C. Leung, and D.-S. Lin(林登松), "*Sodium Chloride on Si(100) Grown by Molecular Beam Epitaxy*", Phys. Rev. B **83**, 085305 (2011). (I.F.=3.772) ◆

62. D. F. Forster, J. Klinkhammer, C. Busse, S. G. Altendorf, T. Michely, Z. Hu, Y.-Y. Chin, L. H. Tjeng, J. Coraux, and D. Bourgault, "*Epitaxial Europium Oxide on Ni(100) with Single-crystal Quality*", Phys. Rev. B **83**, 045424 (2011). (I.F.=3.772) ◆

63. S. Mukherjee, C. H. Chen, C. C. Chou, K. F. Tseng, B. K. Chaudhuri, and H. D. Yang, "*Reply to "Comment on 'Colossal Dielectric and Magnetodielectric Effect in Er_2O_3 Nanoparticles Embedded in a SiO_2 Glass Matrix'"*", Phys. Rev. B **84**, 056103 (2011). (I.F.=3.774) ◆

64. L. M. Schoop, S. A. Medvedev, V. Ksenofontov, A. Williams, T. Palasyuk, I. A. Troyan, J. Schmitt, F. Casper, C. Wang, M. Eremets,R. J. Cava, and C. Felser, "*Pressure-restored Superconductivity in Cu-substituted FeSe*", Phys. Rev. B **84**, 174505 (2011). (I.F.=3.774) ◆

65. Y.-C. Tseng(曾院介), H.-J. Ma, C.-Y. Yang, Y. Mudryk, V. K. Pecharsky, K. A. Gschneidner Jr., N. M. Souza-Neto, and D. Haskel, "*Effect of Si Doping and Applied Pressure upon Magnetostructural Properties of $Tb_5(Si_xGe_{1-x})_4$ Magnetocaloric Compounds*", Phys. Rev. B **83**, 104419 (2011). (I.F.=3.772) ◆

66. T.-Y. Chen, Y.-T. Chen, C.-L. Wang, I. M. Kempson, W.-K. Lee, Y. S. Chu, Y. Hwu(胡宇光), and G. Margaritondo, "*Full-field Microimaging with 8 keV X-rays Achieves a Spatial Resolutions Better Than 20 nm*", Opt. Express **19**, 19919 (2011). (I.F.=3.753) ◆

67. C. L. Wang, B. J. Hsao, S. F. Lai, W. C. Chen, H. H. Chen, Y. Y. Chen, C. C. Chien, X. Cai, I, M. Kempson, Y. Hwu(胡宇光), and G. Margaritondo, "*One-pot Synthesis of AuPt Alloyed Nanoparticles by Intense X-ray Irradiation*", Nanotechnology **22**, 065605 (2011). (I.F.=3.644) ◆

68. C.-W. Tsai, H. M. Chen, R.-S. Liu(劉如熹), K. Asakura, L. Zhang, J. Zhang, M.-Y. Lo, and Y.-M. Peng, "*Carbon Incorporated FeN/C Electrocatalyst for Oxygen Reduction Enhancement in Direct Methanol Fuel Cells: X-ray Absorption Approach to Local Structures*", Electrochim. Acta **56**, 8734 (2011). (I.F.=3.642) ◆

69. Y.-Y. Chen, T.-P. Ko, C.-H. Lin, W.-H. Chen, and A. H.-J. Wang(王惠鈞), "*Conformational Change upon Product Binding to Klebsiella Pneumoniae UDP-glucose Dehydrogenase: A Possible Inhibition Mechanism for the key enzyme in polymyxin resistance*", J. Struct. Biol. **175**, 300 (2011). (I.F.=3.5) ◆

70. W. Chuenchor, S. Pengthaisong, R. C. Robinson, J. Yuvaniyama, J. Svasti, and J. R. K. Cairns, "*The Structural Basis of Oligosaccharide Binding by Rice BGlu1 beta-glucosidase*", J. Struct. Biol. **173**, 169 (2011). (I.F.=3.497) ◆

71. W.-Y. Jeng, N.-C. Wang, M.-H. Lin, C.-T. Lin, Y.-C. Liaw, W.-J. Chang, C.-I. Liu, P.-H. Liang, and A. H.-J. Wang(王惠鈞), "*Structural and Functional Analysis of Three β-glucosidases from Bacterium Clostridium Cellulovorans, Fungus Trichoderma Reesei and Termite Neotermes Koshunensis*", J. Struct. Biol. **173**, 46 (2011). (I.F.=3.497) ◆

72. T.-H. Kao, Y. Chen, C.-H. Pai, M.-C. Chang, and A. H.-J. Wang(王惠鈞), "*Structure of a NADPH-dependent Blue Fluorescent Protein Revealed the Unique Role of Gly176 on the Fluorescence Enhancement*", J. Struct. Biol. **174**, 485 (2011). (I.F.=3.497) ◆

73. V. Kumar and J. Sivaraman, "*Structural Characterization of BVU_3255, a Methyltransferase from Human Intestine Antibiotic Resistant Pathogen Bacteroides Vulgatus*", J. Struct. Biol. **176**, 409 (2011). (I.F.=3.5) ◆

74. J. J. Lin(林志民), "*Dynamics of Reactions Between Two Closed-shell Molecules*", Phys. Chem. Chem. Phys. **13**, 19206 (2011). (I.F.=3.454) ◆

75. A. Mijovilovich, S. Hamman, F. Thomas, F. M. F. de Groot, and B. M. Weckhuysen, "*Protonation of the Oxygen Axial Ligand in Galactose Oxidase Model Compounds as Seen with High Resolution X-ray Emission Experiments and FEFF Simulations*", Phys. Chem. Chem. Phys. **13**, 5600 (2011). (I.F.=3.453) ◆

76. M.-H. Chu, K.-L. Liu, H.-Y. Wu, K.-W. Yeh, and Y.-S. Cheng(鄭貽生), "*Crystal Structure of Tarocystatin-papain Complex: Implications for the Inhibition Property of Group-2 Phytocystatins*", Planta **234**, 243 (2011). (I.F.=3.098) ◆

77. Y.-Q. Yeh, H.-P. Lin, C.-Y. Tang, and C.-Y. Mou(牟中原), "*Mesoporous Silica SBA-15 Sheet with Perpendicular Nanochannels*", J. Colloid Interf. Sci. **362**, 354 (2011). (I.F.=3.066) ◆

78. K. S. Lin(林錕松), A. K. Adhikari, K. C. Chang, M. T. Tu, and W. Lu, "*Hydrogen Adsorption in Metal Organic Frameworks by Hydrogen Spillover*", Catal. Today **164**, 23 (2011). (I.F.=2.993)

79. K. S. Lin(林錕松), S. Chowdhury, H. P. Yeh, W. T. Hong, and C. T. Yeh, "*Preparation and Characterization of CuO/ZnO-Al_2O_3 Catalyst Washcoats with CeO_2 Sols for Autothermal Reforming of Methanol in a Microreactor*", Catal. Today **164**, 251 (2011). (I.F.=2.993) ◆

80. K.-S. Lin(林錕松), A. K. Adhikari, Z.-Y. Tsai, Y.-P. Chen, T.-T. Chien, and H.-B. Tsai, "*Synthesis and Characterization of Nickel Ferrite Nanocatalysts for CO_2 Decomposition*", Catal. Today **174**, 88 (2011). (I.F.=2.993) ◆

81. M.-L. Lin, M.-Y. Lo, and C.-Y. Mou(牟中原), "*PtRuP Nanoparticles Supported on Mesoporous Carbon Thin Film as Highly Active Anode Materials for Direct Methanol Fuel Cell*", Catal. Today **160**, 109 (2011). (I.F.=2.993) ◆

82. C.-S. Cheng, W.-T. Chen, L.-H. Lee, Y.-W. Chen, Shun-Ya Changa, P.-C. Lyu, and H.-S. Yin(殷獻生), "*Structural and Functional Comparison of Cytokine Interleukin-1 Beta from Chicken and Human*", Mol. Immunol. **48**, 947 (2011). (I.F.=2.916) ◆

83. J. Kung(龔慧貞), Y.-J. Lin, and C.-M. Lin, "*Phonon Behavior of $CaSnO_3$ Perovskite under Pressure*", J. Chem. Phys. **135**, 224507 (2011). (I.F.=2.921) ◆

84. Y.-S. Cheng, T.-P. Ko, T.-H. Wu, Y. Ma, C.-H. Huang, H.-L. Lai, A. H.-J. Wang(王惠鈞), J.-R. Liu, and R.-T. Guo, "*Crystal Structure and Substrate-binding Mode of Cellulase 12A from Thermotoga Maritime*", Proteins **79**, 1193 (2011). (I.F.=2.813) ◆

85. T.-H. Wu, C.-H. Huang, T.-P. Ko, H.-L. Lai, Y. Ma, C.-C. Chen, Y.-S. Cheng, J.-R. Liu(劉囍睿), and R.-T. Guo, "*Diverse Substrate Recognition Mechanism Revealed by Thermotoga Maritima Cel5A Structures in Complex with Cellotetraose, Cellobiose and Mannotriose*", BBA-Proteins Proteomics **1814**, 1832 (2011). (I.F.=2.773) ◆

86. C.-H. Pai, H.-J. Wu, C.-H. Lin, and A. H.-J. Wang(王惠鈞), "*Structure and Mechanism of Escherichia Coli Glutathionylspermidine Amidase Belonging to the Family of Cysteine; Histidine-dependent Amidohydrolases/Peptidases*", Protein Sci. **20**, 557 (2011). (I.F.=2.741) ◆

87. A. F. Keene, S. G. Johnston, R. T. Bush, L. A. Sullivan, E. D. Burton, A. E. McElnea, C. R. Ahern, and B. Powell, "*Effects of Hyper-enriched Reactive Fe on Sulfidisation in a Tidally Inundated Acid Sulfate Soil Wetland*", Biogeochemistry **103**, 263 (2011). (I.F.=2.674) ◆

88. P.-J. Chiu, S. Vetrivel, A. S. T. Chiang, and H.-M. Kao(高憲明), "*Synthesis and Characterization of Cubic Periodic Mesoporous Organosilicas with a High Loading of Disulfide Groups*", New J. Chem. **35**, 489 (2011). (I.F.=2.631) ◆

89. C.-S. Cheng, C.-H. Chen, Y.-C. Luo, W.-T. Chen, S.-Y. Chang, P.-C. Lyu, M.-C. Kao, and H.-S. Yin(殷獻生), "*Crystal Structure and Biophysical Characterisation of Helicobacter Pylori Phosphopantetheine Adenylyltransferase*", Biochem. Biophys. Res. Comm. **408**, 356 (2011). (I.F.=2.595) ◆

90. L.-C. Tsai(蔡麗珠), C.-H. Hsiao, W.-Y. Liu, L.-M. Yin, and L.-F. Shyur, "*Structural Basis for the Inhibition of 1,3-1,4-b-D-glucanase by Noncompetitive Calcium Ion and Competitive Tris Inhibitors*", Biochem. Biophys. Res. Comm. **407**, 593 (2011). (I.F.=2.595) ◆

91. C. J. Lin, J. C. Hsu, J. H. Tsai, C. C. Kuo, W. Y. Lee, and W. C. Chen(陳文章), "*High-performance FETs Prepared from Electrospun Aligned P4TDPP Nanofibers*", Macromol. Chem. Phys. **212**, 2452 (2011). (I.F.=2.437) ◆

92. J.-Y. Chen, Y.-C. Hsieh, L.-Y. Wang, and P.-W. Wu(吳樸偉), "*Electroless Deposition of Ru Films via an Oxidative-reductive Mechanism*", J. Electrochem. Soc. **158**, D463 (2011). (I.F.=2.42) ◆

93. M.-Y. Hsu, W.-C. Yang, H. Teng, and J. Leu(呂志鵬), "*Microstructure and Composition of TiO_2 Nanotube Arrays Fabricated with HF and NH_4F Electrolytes and Their Evolution during Annealing*", J. Electrochem. Soc. **158**, K81 (2011). (I.F.=2.42) ◆

94. W.-Y. Wu, T.-W. Shih, P. Chen, J.-M. Ting(丁志明), and J.-M. Chen, "*Plasma Surface Treatments of TiO_2 Photoelectrodes for Use in Dye-sensitized Solar Cells*", J. Electrochem. Soc. **158**, K101 (2011). (I.F.=2.42) ◆

95. C. H. Wang, C. J. Liu, C. C. Chien, H. T. Chen, T. E. Hua, W. H. Leng, H. H. Chen, I. M. Kempson, Y. Hwu(胡宇光), M. Hsiao, T. C. Lai, J. L. Wang, C. S. Yang, H. M. Lin, Y. J. Chen, and G. Margaritondo, "*X-ray Synthesized PEGylated(Polyethylene Glycol Coated) Gold Nanoparticles in Mice Strongly Accumulate in Tumors*", Mater. Chem. Phys. **126**, 352 (2011). (I.F.=2.353) ◆

96. Z.-Q. Li, C.-H. Tsai, A. F. Chen, Y.-J. Lu, and J. J. Lin(林志民), "*Double Methyl Substitution in Simple Alkenes Leads to Low-barrier Reactions Towards Molecular Fluorine*", Chem. Phys. Lett. **510**, 42 (2011). (I.F.=2.28) ◆

97. B.-Y. Tsui(崔秉鉞), C.-C. Yen, P.-H. Li, and J.-Y. Lai, "*Effects of EUV Irradiation on Poly-Si SONOS NVM Devices*", IEEE T. Electron Dev. **32**, 614 (2011). (I.F.=2.255) ◆

98. B.-Y. Tsui(崔秉鉞), P.-H. Li, and C.-C. Yen, "*Observation of Extreme-ultraviolet-irradiation-induced Damages on High-dielectric-constant Dielectrics*", IEEE T. Electron Dev. **32**, 1594 (2011). (I.F.=2.255) ◆

99. C.-C. Huang, C.-C. Lo, Y.-C. Tseng(曾院介), C.-M. Liu, and C. Chen, "*Magnetostructural Phase Transition in Electroless-plated Ni Nanoarrays*", J. Appl. Phys. **109**, 113905 (2011). (I.F.=2.064) ◆

100. B. Nath, J. P. Maity, J.-S. Jean, G. Birch, S. Kar, H.-J. Yang(楊懷仁), M.-K. Lee, R. Hazra, and D. Chatterjee, "*Geochemical Characterization of Arsenic-affected Alluvial Aquifers of the Bengal Delta (West Bengal and Bangladesh) and Chianan Plains (SW Taiwan): Implications for Human Health*", Appl. Geochem. **26**, 705 (2011). (I.F.=2.017) ◆

101. K.-S. Lin(林錕松), C.-Y. Pan, S. Chowdhury, M. T. Tu, W. T. Hong, and C.-T. Yeh, "*Hydrogen Generation Using a CuO/ZnO-ZrO_2 Nanocatalyst for Autothermal Reforming of Methanol in a Microchannel Reactor*", Molecules **16**, 348 (2011). (I.F.=1.988) ◆

102. K.-S. Lin(林錕松), C.-Y. Pan, S. Chowdhury, W. Lu, and C.-T. Yeh, "*Synthesis and Characterization of CuO/ZnO-Al_2O_3 Catalyst Washcoat Thin Films with ZrO_2 Sols for Steam Reforming of Methanol in a Microreactor*", Thin Solid Films **519**, 4681 (2011). (I.F.=1.909) ◆

103. C.-S. Cheng, W.-S. Lu, I.-F. Tu, P.-C. Lyu, and H.-S. Yin(殷獻生), "*Comparative Analysis of Receptor Binding by Chicken and Human Interleukin-1β*", J. Mol. Model. **17**, 1283 (2011). (I.F.=1.871) ◆

104. C. H. Wang(王丞浩), S. T. Chang, H. C. Hsu, H. Y. Du, J. C. S. Wu, L. C. Chen, and K. H. Chen(陳貴賢), "*Oxygen Reducing Activity of Methanol-tolerant Catalysts by High-temperature Pyrolysis*", Diam. Relat. Mater. **20**, 322 (2011). (I.F.=1.825) ◆

105. C.-J. Chang, Y.-H. Lee, C.-A. Dai(戴子安), C.-C. Hsiao, S.-H. Chen, N. P. D. Nurmalasari, J.-C. Chen, Y.-Y. Cheng, W.-P. Shih, and P.-Z. Chang, "*A Large Area Bimaterial Sheet of Piezoelectric Nanogenerators for Energy Harvesting: Effect of RF Sputtering on ZnO Nanorod*", Microelectron. Eng. **88**, 2236 (2011). (I.F.=1.569) ◆

106. Y. Huang(黃鈺軫), L. Hsu, and Y. Chang, "*Comprehensive Characterization of Ambient Nanoparticles Collected Near an Industrial Science Park: Particle Size Distributions and Relationships with Environmental Factors*", J. Environ. Sci. - China **23**, 1334 (2011). (I.F.=1.513) ◆

107. C. Y. Liao, C. Y. Peng, H. C. Wang, H. Y. Kang, and H. P. Wang(王鴻博), "*Extraction of Arsenic from a Soil in the Blackfoot Disease Endemic Area with Ionic Liquids*", Nucl. Instrum. Meth. A **652**, 925 (2011). (I.F.=1.142) ◆

108. F. K. Chiang, C. H. Chen, F. R. Chen, and M. W. Chu(朱明文), "*Structural and Magnetic Characteristics of Dy(Fe,Mn)O_3 Perovskites*", IEEE T. Magn. **47**, 3764 (2011). (I.F.=1.053) ◆

109. N. Kamariah, F. Eisenhaber, S. Adhikari, B. Eisenhaber, and G. Gruber, "*Purification and Crystallization of Yeast Glycosylphosphatidylinositol Transamidase Subunit PIG-S (PIG-S_{71-467})*", Acta Crystallogr. F **67**, 896 (2011). (I.F.=0.563) ◆

110. V. S. Tadwal, M. S. S. Manimekalai, and G. Gruber, "*Engineered Tryptophan in the Adenine-binding Pocket of Catalytic Subunit A of A-ATP Synthase Demonstrates the Importance of Aromatic Residues in Adenine Binding, Forming a Tool for Steady-state and Time-resolved Fluorescence Spectroscopy*", Acta Crystallogr. F **67**, 1485 (2011). (I.F.=0.563) ◆

111. C.-W. Tseng, T.-P. Ko, R.-T. Guo, J.-W. Huang, H.-C. Wang, C.-H. Huang, Y.-S. Cheng, A. H.-J. Wang(王惠鈞), and J.-R. Liu, "*Substrate Binding of a GH5 Endoglucanase from the Ruminal Fungus Piromyces Rhizinflata*", Acta Crystallogr. F **67**, 1189 (2011). (I.F.=0.563) ◆

112. Y.-K. Wang, S.-C. Huang, Y.-F. Wu, Y.-C. Chen, W.-H. Chen, Y.-L. Lin, M. Nayak, Y.-R. Lin, T.-H. Li(李天雄), and T.-K. Wu, "*Purification, Crystallization and Preliminary X-ray Analysis of a Thermostable Direct Haemolysin from Grimontia hollisae*", Acta Crystallogr. F **67**, 224 (2011). (I.F.=0.563) ◆

主導性之非 SCI 論文

1. C.-J. Su, C.-Y. Chen, H.-L. Chen, and V. A. Ivanov, "*Beads-on-string Structure of the Electrostatic Complex of DNA with a High-generation PAMAM Dendrimer*", J. Phys.-Conf. Ser. **272**, 012002 (2011). ★

合作性之非 SCI 論文

1. J.-Y. Jeng, M.-W. Lin, Y.-J. Hsu, T.-C. Wen, and T.-F. Guo, "*The Roles of Poly(Ethylene Oxide) Electrode Buffers in Efficient Polymer Photovoltaics*", Adv. Ene. Mater. **1**, 1192 (2011). ☆

2. H. M. Chen, C. K. Chen, R. S. Liu, C. C. Wu, W. S. Chang, K. H. Chen, T. S. Chan, J. F. Lee, and D. P. Tsai, "*A New Approach to Solar Hydrogen Production: a ZnO-ZnS Solid Solution Nanowire Array Photoanode*", Adv. Ene. Mater. **1**, 742 (2011). ☆

3. S. H. Liu, J. C. A. Huang, X. Qi, W. J. Lin, Y. J. Siao, C. R. Lin, J. M. Chen, M. T. Tang, Y. H. Lee, and J. C. Lee, "*Structural Transformation and Charge Transfer Induced Ferroelectricity and Magnetism in Annealed $YMnO_3$*", AIP Advances **1**, 032173 (2011). ☆

協助性之非 SCI 論文

1. A. J. Chen, S. T. Wong, C. C. Hwang, and C. Y. Mou, "*Highly Efficient and Regioselective Halogenation Over Well Dispersed Rhenium-promoted Mesoporous Zirconia*", ACS Catalysis **1**, 786 (2011). ◆

2. H. H. Chen, C. C. Chien, C. petibois, C. L. Wang, Y. S. Chu, S. F. Lai, T. E. Hua, Y. Y. Chen, X. Cai, I. M. Kempson, Y. Hwu, and G. Margaritondo, "*Quantitative Analysis of Nanoparticle Internalization in Mammalian Cells by High Resolution X-ray Microscopy*", J. Nanobiotech. **9**, 14 (2011). ◆

Publications related to the Accelerator Facility Development

主導性之 SCI 論文

1. S. Chunjarean, J. C. Jan(詹智全), C. S. Hwang(黃清鄉), P. H. Lin, and H. Wiedemann, "*A New Field Correction Scheme for Superconducting Undulators by Modification the Iron Pole Geometry*", Supercond. Sci. Tech. **24**, 055013 (2011). (I.F.=2.402) ★

2. C. S. Hwang(黃清鄉), J. C. Jan(詹哲鎧), C. S. Chang(張正星), S. D. Chen, C. H. Chang, and M. T. Uen, "*Development Trends for Insertion Devices of Future Synchrotron Light Sources*", Phys. Rev. Spec. Top.-Accel. Beam. **14**, 044801 (2011). (I.F.=1.661) ★

3. R. L. Lin, H. M. Shih, C. Y. Liu(柳振堯), and K. B. Liu(劉國賓), "*A Family of Piezoelectric-transformer-based Bridgeless Continuous-conduction-mode Charge-pump Power-factor-correction Electronic Ballasts*", IEEE T. Ind. Appl. **47**, 1149 (2011). (I.F.=1.204) ★

4. N. Y. Huang(黃暖雅), W. K. Lau(劉偉強), C. C. Liang(梁成志), A. P. Lee(李安平), W. C. Cheng, and S. S. Yang, "*Driver Linac Design for a Femtosecond Head-on Inverse Compton Scattering X-ray Source*", Nucl. Instrum. Meth. A **637**, S76 (2011). (I.F.=1.142) ★

5. Y.-C. Huang(黃衍介), C.-H. Chen, A.-P. Lee(李安平), W.-K. Lau(劉偉強), and S.-G. Liu, "*Laser-beat-wave Photoinjector*", Nucl. Instrum. Meth. A **637**, S1 (2011). (I.F.=1.142) ★

6. W. K. Lau(劉偉強), S. B. Hung, A. P. Lee(李安平), C. S. Chou(周家聲), and N. Y. Huang(黃暖雅), "*Emittance Control and RF Bunch Compression in the NSRRC Photoinjector*", Nucl. Instrum. Meth. A **637**, S91 (2011). (I.F.=1.142) ★

7. I. C. Sheng(沈怡青) and C. K. Kuan(管建銳), "*Power Density Distribution and Associated Thermal Analysis of an Elliptical Polarizing Undulator*", Nucl. Instrum. Meth. A **636**, 87 (2011). (I.F.=1.142) ★

8. M.-H. Chang(張美霞), Ch. Wang(王兆恩), M.-C. Lin(林明泉), M.-H. Tsai(蔡明訓), L.-H. Chang(張隆海), M.-S. Yeh(葉孟書), T.-T. Yang(楊滋德), C.-H. Lo(羅志宏), C.-K. Liu(劉志凱), F.-T. Chung(鍾福財), Y.-H. Lin(林于寒), T.-C. Yu(尤宗旗), and L.-J. Chen(陳令振), "*Calculation of the Cryogenic Loads on a Superconducting RF Module*", IEEE T. Appl. Supercon. **21**, 1908 (2011). (I.F.=1.013) ★

9. S. D. Chen, Y. T. Yu, Z. W. Huang, J. C. Jan(詹智全), C. S. Hwang(黃清鄉), I. G. Chen, C. H. Du, T. M. Uen, D. J. Huang(黃迪靖), and C. Y. Chang, "*Design of a HTS Magnet for Application to Resonant X-Ray Scattering*", IEEE T. Appl. Supercon. **21**, 1661 (2011). (I.F.=1.013) ★

10. J. C. Jan(詹智全), C. S. Hwang(黃清鄉), C. M. Wu(吳仲明), F. Y. Lin(林富源), and C. H. Chang(張正祥), "*Magnetic-field Shimming and Field Measurement Issue of the 130-pole Superconducting Undulator*", IEEE T. Appl. Supercon. **21**, 1705 (2011). (I.F.=1.013) ★

11. M.-C. Lin(林明泉), Ch. Wang(王兆恩), T. Furuya, T.-T. Yang(楊滋德), M.-S. Yeh(葉孟書), L.-H. Chang(張隆海), C.-K. Liu(劉志凱), F.-T. Chung(鍾福財), M.-H. Tsai(蔡明訓), M.-H. Chang(張美霞), Y.-H. Lin(林于寒), C.-H. Lo(羅志宏), T.-C. Yu(尤宗旗), and L.-J. Chen(陳令振), "*Effects of Material Properties on the Elastoplastic Buckling of an SRF Cavity under External Pressure*", IEEE T. Appl. Supercon. **21**, 2605 (2011). (I.F.=1.013) ★

主導性之會議論文

1. C.-H. Chang(張正星), C. S. Hwang(黃清鄉), C. H. Chang(張正祥), J. C. Huang(黃睿哲), and C. K. Yang(楊謹綱), "*Progress in Insertion Devices for TPS in Phase I*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

2. H.-P. Chang(張和平), C.-C. Chiang(江政錦), and M.-S. Chiu(邱茂森), "*Decoupling Problem of Weakly Linear Coupled Double Mini-beta-y Lattice of TPS Storage Ring*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

3. J. C. Chang(張瑞麒), T. S. Ueng(翁宗賢), Z. D. Tsai(蔡宗達), Y. C. Lin(林育智), C. Y. Liu(柳振堯), Y. C. Chung(鍾炎慶), and Y. F. Chiu(邱永豐), "*Power Saving Status in the NSRRC*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

4. J. C. Chang(張瑞麒), Z. D. Tsai(蔡宗達), Y. C. Lin(林育智), I. Liu, C. Y. Liu(劉清源), Y. C. Chung(鍾炎慶), J. R. Chen(陳俊榮), and C. K. Kuan(管建銑), "*Construction Status of the Utility System for the 3GeV TPS Storage Ring*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

5. M. H. Chang(張美霞), Ch. Wang(王兆恩), M. C. Lin(林明泉), F. Z. Hsiao(蕭豐礽), H. H. Tsai(蔡黃修), M. S. Yeh(葉孟書), L. H. Chang(張隆海), T. T. Yang(楊滋德), C. H. Lo(羅志宏), F. T. Chung(鍾福財), Y. H. Lin(林于寒), T. C. Yu(尤宗旗), L. J. Chen(陳令振), M. H. Tsai, and L. L. Han, "*Design of a Cryogenic Regulation Valve Box for SRF Operation at TPS*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

6. Y. T. Chang(張銀濤), C. H. Kuo(郭長和), Y. S. Cheng(鄭永森), J. Chen(陳秀珍), S. Y. Hsu(許森元), C. Y. Wu(吳俊億), K. H. Hu(胡國華), and K. T. Hsu(許國棟), "*Infrastructure of Taiwan Photon Source Control Network*", International Conference on Accelerator and Large Experimental Physics Control System (ICALEPCS), Grenoble, France (2011).

7. C.-S. Chen(陳志昇), Y.-H. Liu(劉永慧), C. Y. Kuo(郭政穎), Y.-L. Chu(朱耘諒), C.-S. Yang(楊智勝), K.-H. Hsu(許耿豪), C.-K. Chan(詹哲鎧), and C.-L. Chen(陳慶隆), "*The Radiated EMI Isolation for TPS Kicker Magnet*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

8. J. Chen(陳秀珍), C. H. Kuo(郭長和), C. Y. Wu(吳俊億), Y. S. Cheng(鄭永森), P. C. Chiu(邱斐珍), C. Y. Liao(廖志裕), K. H. Hu(胡國華), Y. T. Chang(張銀濤), D. Lee(李淑華), S. Y. Hsu(許森元), C. S. Wang, Y. K. Chen(陳勇克), Y. R. Pan(潘彥儒), and K. T. Hsu(許國棟), "*Progress of the TPS Control System Development*", International Conference on Accelerator and Large Experimental Physics Control System (ICALEPCS), Grenoble, France (2011).

9. M. L. Chen(陳美玲), H. C. Ho(何西洲), W. Y. Lai(賴惟揚), Y. L. Tsai(蔡依霖), K. H. Hsu(許耿豪), S. Y. Perng(彭賢耀), H. S. Wang, T. C. Tseng(曾澤川), and J. R. Chen(陳俊榮), "*Design and Development of a Laser Positioning System for TPS Magnets Alignment Inspection during the Installation on a Girder*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

10. S. D. Chen, T. M. Uen, and C. S. Hwang(黃清鄉), "*Spectral Analysis with an Arbitrary Strength Parameter for Various Insertion Devices*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

11. Y. K. Chen(陳勇克), P. C. Chiu(邱斐珍), J. Chen(陳秀珍), K. H. Hu(胡國華), C. H. Kuo(郭長和), and K.T. Hsu(許國棟), "*Vibration and Beam Motion Diagnostics in TLS*", Proceedings of DIPAC, Hamburg, Germany (2011).

12. Y. K. Chen(陳勇克), P. C. Chiu(邱斐珍), J. Chen(陳秀珍), K. H. Hu(胡國華), C. H. Kuo(郭長和), and K.-T. Hsu(許國棟), "*Vibration and Beam Motion Monitoring in TLS*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

13. Y. S. Cheng(鄭永森), J. Chen(陳秀珍), C. Y. Liao(廖志裕), P. C. Chiu(邱斐珍), C. Y. Wu(吳俊億), Y. T. Chang(張銀濤), K. H. Hu(胡國華), C. H. Kuo(郭長和), and K. T. Hsu(許國棟), "*Virtual Power Supply Control Environment for the TPS Project*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

14. Y. S. Cheng(鄭永森), J. Chen(陳秀珍), P. C. Chiu(邱斐珍), C. H. Kuo(郭長和), C. Y. Liao(廖志裕), K. T. Hsu(許國棟), and C. Y. Wu(吳俊億), "*Preliminary Design and Integration of EPICS Operation Interface for the Taiwan Photon Source*", International Conference on Accelerator and Large Experimental Physics Control System (ICALEPCS), Grenoble, France (2011).

15. Y. T. Cheng(鄭宇尊), C. K. Kuan(管建銧), H. Y. Yan(顏宏益), G. Y. Hsiung(熊高鈺), and J. R. Chen(陳俊榮), "*Photo-stimulated Desorption Experiment for a TPS Crotch Absorber*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

16. M. S. Chiu(邱茂森), Y. C. Lee(李益志), C. C. Chiang(江政錦), C. H. Yang, H. P. Chang(張和平), H. J. Tsai(蔡弘人), C. C. Kuo(郭錦城), and C. T. Chen(陳建德), "*Double Mini-betay Lattice of TPS Storage Ring*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

17. P. C. Chiu(邱斐珍), C. H. Kuo(郭長和), K. H. Hu(胡國華), J. Chen(陳秀珍), Y. K. Chen(陳勇克), and K. T. Hsu(許國棟), "*Injection Efficiency Diagnostic at Taiwan Light Source Storage Ring*", Proceedings of DIPAC, Hamburg, Germany (2011).

18. P. C. Chiu(邱斐珍), C. H. Kuo(郭長和), K. H. Hu(胡國華), J. Chen(陳秀珍), Y. K. Chen(陳勇克), and K. T. Hsu(許國棟), "*Photon BPM Electronics Development at Taiwan Light Source*", Proceedings of DIPAC, Hamburg, Germany (2011).

19. S. Chunjarean, C. S. Hwang(黃清鄉), J. C. Jan(詹智全), and H. Wiedemann, "*Field Error Correction for a Superconducting Undulator*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

20. F. Z. Hsiao(蕭豐礽), T. Y. Huang(黃亭淵), C. P. Liu(劉朝斌), and H. H. Tsai(蔡黃修), "*Design of a Helium Phase Separator with Condenser*", Particle Accelerator Conference (PAC), New York, USA (2011).

21. F. Z. Hsiao(蕭豐礽) and C. S. Hwang(黃清鄉), "*Experience of the Cryogenic System for Taiwan Light Source*", Particle Accelerator Conference (PAC), New York, USA (2011).

22. G.-Y. Hsiung(熊高鈺), C.-K. Chan(詹哲鎧), C.-H. Chang(張嘉航), C.-C. Chang(張進春), C.-L. Chen(陳慶隆), C.-M. Cheng(鄭家沐), Y. T. Cheng(鄭宇尊), S.-N. Hsu(許憲能), H.-P. Hsueh(薛心白), C.-S. Huang(黃春憲), I.-T. Huang(黃英子), T.-Y. Lee(李宗諭), I.-C. Sheng(沈怡青), L.-H. Wu(吳怜慧), H.-Y. Yan(顏宏益), Y.-C. Yang(楊易晨), and J.-R. Chen(陳俊榮), "*Progress of Construction of the TPS Vacuum System*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

23. H.-P. Hsueh(薛心白), C.-K. Chan(詹哲鎧), C.-H. Chang(張嘉航), C.-C. Chang(張進春), C.-L. Chen(陳慶隆), C.-M. Cheng(鄭家沐), Y. T. Cheng(鄭宇尊), G.-Y. Hsiung(熊高鈺), S.-N. Hsu(許憲能), C.-S. Huang(黃春憲), I.-T. Huang(黃英子), T.-Y. Lee(李宗諭), H.-Y. Yan(顏宏益), Y.-C. Yang(楊易晨), and J.-R. Chen(陳俊榮), "*The Installation of One 14 Meter Cell of TPS Vacuum System*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

24. K. H. Hu(胡國華), Y. S. Cheng(鄭永森), C. Y. Liao(廖志裕), Y. T. Chang(張銀濤), C. Y. Wu(吳俊億), P. C. Chiu(邱斐珍), D. Lee(李淑華), S. Y. Hsu(許森元), J. Chen(陳秀珍), C. H. Kuo(郭長和), and K. T. Hsu(許國棟), "*RF Reference Distribution for the Taiwan Photon Source*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

25. K. H. Hu(胡國華), Y. R. Pan(潘彥儒), Y. T. Chang(張銀濤), P. C. Chiu(邱斐珍), J. Chen(陳秀珍), C. H. Kuo(郭長和), K. T. Hsu(許國棟), and Y. H. Lin(林于寒), "*Analysis of the Post-mortem Events at the TLS*", Proceedings of DIPAC, Hamburg, Germany (2011).

26. I. T. Huang(黃英子), H. P. Hsueh(薛心白), C. L. Chen, C. C. Chang(張進春), G. Y. Hsiung(熊高鈺), and J. R. Chen(陳俊榮), "*Development of a Feedthrough with Small Reflection for the TPS BPM*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

27. J.-C. Huang(黃昭銓), Y.-S. Wong(黃永信), and K.-B. Liu(劉國賓), "*Improvement of Output Current Characteristics for Bira MCOR30 Correction Magnet Power Supply*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

28. J.-C. Huang(黃睿哲), C.-S. Hwang(黃清鄉), J.-T. Chen, C.-H. Chang(張正祥), and F.-Y. Lin(林富源), "*Field Correction of NSRRC Elliptically Polarized Undulator 46*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

29. N. Y. Huang, H. Hama, M. Kawai, S. Kashiwagi, F. Hinode, K. Nanbu, T. Muto, F. Miyahara, Y. Tanaka, X. Li, and W. K. Lau(劉偉強), "*Coherent Synchrotron Radiation Source Based on an Isochronous Accumulator Ring with Femtosecond Electron Bunches*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

30. J. Y. Hwang(黃景一), A. P. Lee(李安平), J. H. Chen(陳敬宏), W. K. Lau(劉偉強), T. H. Wu, and N. Y. Huang, "*A Low Energy Thermionic RF Gun Linac for Ultrashort Electron Beam*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

31. J. C. Jan(詹智全), C. Y. Kuo(郭昌洋), F. Y. Lin(林富源), Y. L. Chu(朱耘諒), T. Y. Chung(鍾廷翊), C. H. Chang(張正祥), and C. S. Hwang(黃清鄉), "*Magnetic Field Inspection and Analysis of Multipole Lattice Magnets Using a Rotating-coil System*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

32. C.-K. Kuan(管建銑), H.-Y. Yan(顏宏益), Y. T. Cheng(鄭宇尊), W.-Y. Lai(賴惟揚), I.-C. Sheng(沈怡青), T.-C. Tseng(曾澤川), and J.-R. Chen(陳俊榮), "*Alignment of the TPS Front-end Prototype*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

33. C. H. Kuo(郭長和), P. C. Chiu(邱斐珍), K. H. Hu(胡國華), C. Y. Liao(廖志裕), Y. S. Cheng(鄭永森), J. Chen(陳秀珍), and K. T. Hsu(許國棟), "*Preliminary BPM Electronic Testing for the Taiwan Photon Source Project*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

34. C. H. Kuo(郭長和), K. H. Hu(胡國華), Y. S. Cheng(鄭永森), P. C. Chiu(邱斐珍), C. Y. Liao(廖志裕), and K. T. Hsu(許國棟), "*Operation Status of Bunch-by-bunch Feedback System for the TLS*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

35. C. H. Kuo(郭長和), P. C. Chiu(邱斐珍), K. H. Hu(胡國華), C. Y. Wu(吳俊億), C. Y. Liao(廖志裕), Y. S. Cheng(鄭永森), J. Chen(陳秀珍), and K. T. Hsu(許國棟), "*Commissioning Tune Feedback in the Taiwan Light Source*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

36. C. H. Kuo(郭長和), J. Chen(陳秀珍), Y. S. Cheng(鄭永森), P. C. Chiu(邱斐珍), K. H. Hu(胡國華), K. T. Hsu(許國棟), and C. Y. Wu(吳俊億), "*BPM System and Orbit Feedback System Design for the Taiwan Photon Source*", International Conference on Accelerator and Large Experimental Physics Control System (ICALEPCS), Grenoble, France (2011).

37. C. H. Kuo(郭長和), P. C. Chiu(邱斐珍), K. H. Hu(胡國華), J. Chen(陳秀珍), and K. T. Hsu(許國棟), "*Preliminary Tune Feedback Study in the Taiwan Light Source*", Proceedings of DIPAC, Hamburg, Germany (2011).

38. C. H. Kuo(郭長和), K. H. Hu(胡國華), Y. S. Cheng(鄭永森), P. C. Chiu(邱斐珍), Y. K. Chen(陳勇克), and K. T. Hsu(許國棟), "*New Bunch-by-bunch Feedback System for the TLS*", Proceedings of DIPAC, Hamburg, Germany (2011).

39. W. Y. Lai(賴惟揚), M. H. Wu(吳孟修), T. C. Tseng(曾澤川), H. S. Wang, M. L. Chen(陳美玲), H. C. Ho(何西洲), Y. L. Tsai(蔡依霖), C. J. Lin(林家瑞), H. M. Luo(駱宏明), K. H. Hsu(許耿豪), S. Y. Perng(彭賢耀), P. L. Sung(宋沛倫), and J. R. Chen(陳俊榮), "*From Survey Alignment toward Auto-alignment for the Installation of the TPS Storage Ring Girder System*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

40. C. Y. Lee, P. J. Chou(周炳榮), C. C. Chiang(江政錦), and S. Y. Lee, "*Design Study of Low Emittance Lattice for Taiwan Light Source at 1 GeV*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

41. H. C. Li(李興傑), H. H. Tsai(蔡黃修), F. Z. Hsiao(蕭豐礽), S. H. Chang(張盛雄), W. S. Chiou(邱文崧), and T. F. Lin(林再福), "*Application of a 400-KW DC-bank for the Cryogenic System at NSRRC*", Particle Accelerator Conference (PAC), New York, USA (2011).

42. Y.-D. Li(李易達) and K.-B. Liu(劉國賓), "*TPS Fast Corrector Magnet Power Converter*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

43. Y.-D. Li(李易達), Y.-C. Chien(簡源震), and K.-B. Liu(劉國賓), "*TPS Digital Corrector Magnet Power Converter Based on FPGA*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

44. C. Y. Liao(廖志裕), C. H. Kuo(郭長和), C. Y. Wu(吳俊億), K. H. Hu(胡國華), Y. S. Cheng(鄭永森), P. C. Chiu(邱斐珍), S. Y. Hsu(許森元), J. Chen(陳秀珍), and K. T. Hsu(許國棟), "*Beam Profiles Analysis for Beam Diagnostic Applications*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

45. C. Y. Liao(廖志裕), J. Chen(陳秀珍), Y. S. Cheng(鄭永森), K. T. Hsu(許國棟), K. H. Hu(胡國華), C. H. Kuo(郭長和), and C. Y. Wu(吳俊億), "*Image Acquisition and Analysis for Beam Diagnostics Applications of the Taiwan Photon Source*", International Conference on Accelerator and Large Experimental Physics Control System (ICALEPCS), Grenoble, France (2011).

46. C. Y. Liao(廖志裕), S. Y. Hsu(許森元), C. H. Kuo(郭長和), C. Y. Wu(吳俊億), K. H. Hu(胡國華), Y. S. Cheng(鄭永森), D. Lee(李淑華), Y. T. Chang(張銀濤), J. Chen(陳秀珍), P. C. Chiu(邱斐珍), K. T. Hsu(許國棟), K. L. Tsai(蔡光隆), and K. K. Lin(林克剛), "*Diagnostics for the 150 MeV Linac and Test Transport Line of Taiwan Photon Source*", Proceedings of DIPAC, Hamburg, Germany (2011).

47. C. P. Liu(劉朝斌), H. H. Tsai(蔡黃修), F. Z. Hsiao(蕭豐礽), and T. Y. Huang(黃亭淵), "*The Numerical Simulation of a Condenser in a Helium Phase Separator*", Asian Conference on Applied Superconductivity and Cryogenics (ACASC), New Delhi, India (2011).

48. C.-Y. Liu(柳振堯) and Y.-S. Wong(黃永信), "*Design and Implementation the LLC Resonant Transformer*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

49. Y.-H. Liu(劉永慧), C.-S. Yang(楊智勝), K.-H. Hsu(許耿豪), C.-K. Chan(詹哲鎧), C.-S. Chen(陳志昇), Y.-L. Chu(朱耘諒), C.-Y. Kuo(郭政穎), H.-P. Hsueh(薛心白), and C.-K. Kuan(管建銧), "*TPS SR Kicker Prototype Installation Status*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

50. H. M. Luo(駱宏明), C. J. Lin(林家瑞), H. C. Ho(何西洲), W. Y. Lai(賴惟揚), Y. L. Tsai(蔡光隆), T. C. Tseng(曾澤川), S. Y. Perng(彭賢耀), H. S. Wang, M. L. Chen(陳美玲), K. H. Hsu(許耿豪), P. L. Sung(宋沛倫), and J. R. Chen(陳俊榮), "*The Survey Status at NSRRC during the TPS Civil Construction*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

51. Y. R. Pan(潘彥儒), K. H. Hu(胡國華), Y. T. Chang(張銀濤), P. C. Chiu(邱斐珍), J. Chen(陳秀珍), C. H. Kuo(郭長和), and K. T. Hsu(許國棟), "*Post-mortem Analysis at TLS*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

52. A. Sadeghipanah, W. K. Lau(劉偉強), J. Y. Hwang(黃景一), and T. H. Chang, "*The Plane Wave Transformer Linac Development at NSRRC*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

53. A. Sadeghipanah, W. K. Lau(劉偉強), S. B. Hung, A. P. Lee(李安平), and N. Y. Huang, "*A Study of Emittance Growth in a Photoinjector Linac by Using PWT as Pre-accelerator*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

54. H. H. Tsai(蔡黃修), C. P. Liu(劉朝斌), F. Z. Hsiao(蕭豐礽), T. Y. Huang(黃亭淵), H. C. Li(李興傑), W. S. Chiou(邱文崧), S. H. Chang(張盛雄), and T. F. Lin(林再福), "*Effect of the Connection Gap on Heat-load Characteristics of a Liquid-nitrogen Bayonet Coupling*", Asian Conference on Applied Superconductivity and Cryogenics (ACASC), New Delhi, India (2011).

55. H. H. Tsai(蔡黃修), F. Z. Hsiao(蕭豐礽), C. Wang(王兆恩), M. C. Lin(林明泉), C. P. Liu(劉朝斌), M. H. Chang(張美霞), H. C. Li(李興傑), T. F. Lin(林再福), W. S. Chiou(邱文崧), and S. H. Chang(張盛雄), "*Design of a Liquid-helium Transfer System for the TPS Project*", Particle Accelerator Conference (PAC), New York, USA (2011).

56. H. J. Tsai(蔡弘人), C. C. Chiang(江政錦), P. J. Chou(周炳榮), C. C. Kuo(郭錦城), and C. C. Wang, "*Top-up Safety Simulations for the TPS Storage Ring*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

57. K. L. Tsai(蔡光隆), C. S. Fann(范棋翔), H. M. Shih(施旭明), S. Y. Hsu(許森元), Y. S. Wong(黃永信), Y. D. Li(李易達), K. B. Liu(劉國賓), K.-K. Lin(林克剛), and C. T. Chen(陳建德), "*Optimization of a Dual One-turn Coils Kicker Magnet System*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

58. K. L. Tsai(蔡光隆), C. S. Fann(范棋翔), H. M. Shih(施旭明), S. Y. Hsu(許森元), H. P. Chang(張和平), C. Y. Liao, K. T. Hsu(許國棟), K. K. Lin(林克剛), C. T. Chen(陳建德), and K. Dunkel, "*Beamline Design and Beam Measurement for TPS Linac*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

59. Z. D. Tsai(蔡宗達), W. S. Chan(詹文碩), and C. K. Kuan(管建銧), "*Design of the De-ionized Water Treatment for Taiwan Photon Source*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

60. F. H. Tseng(曾繁信), H. P. Chang(張和平), and C. C. Chiang(江政錦), "*High-level Application Programs for the TPS Commissioning and Operation at NSRRC*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

61. T.-S. Ueng(翁宗賢), Y.-C. Lin(林郁埼), J.-C. Chang(張瑞麒), and C.-K. Kuan(管建銧), "*The Ground Testing of TPS Ground System*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

62. B.-S. Wang(王寶勝), K.-B. Liu(劉國賓), and Y.-S. Wong(黃永信), "*Development of a DSP-based Digital Control Three Phase Shunt Active Power Filter for Magnet Power Supply System*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

63. B.-S. Wang(王寶勝), K.-B. Liu(劉國賓), and Y.-S. Wong(黃永信), "*N+1 Redundancy Power Supply System by Paralleling Current Converter Modules with Digital Regulation Control*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

64. Ch. Wang(王兆恩), L. H. Chang(張隆海), M. C. Lin(林明泉), M. S. Yeh(葉孟書), T. T. Yang(楊滋德), F. T. Chung(鍾福財), M. H. Tsai(蔡明訓), M. H. Chang(張美霞), Y. H. Lin(林于寒), C. H. Lo(羅志宏), T. C. Yu(尤宗旗), L. J. Chen(陳令振), M. C. Lee, F. Z. Hsiao(蕭豐礽), G. H. Luo(羅國輝), and C. T. Chen(陳建德), "*Design Features and Construction Progress of 500-Mhz Rf Systems for the Taiwan Photon Source*", Particle Accelerator Conference (PAC), New York, USA (2011).

65. H. S. Wang(王懷三), Y. L. Tsai(蔡依霖), S. Y. Perng(彭賢耀), M. L. Chen(陳美玲), K. H. Hsu(許耿豪), W. Y. Lai(賴惟揚), T. C. Tseng(曾澤川), and J. R. Chen(陳俊榮), "*Design and Test of a Girder Control System at NSRRC*", International Conference on Accelerator and Large Experimental Physics Control System (ICALEPCS), Grenoble, France (2011).

66. Y.-S. Wong(黃永信), K.-B. Liu(劉國賓) and J.-C. Huang, "*Analysis and Compensator Design of Magnet Correction Power Supply*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

67. Y.-S. Wong(黃永信), K.-B. Liu(劉國賓), J.-C. Huang, and W.-S. Wen(溫武憲), "*Using a High Precision Programmable DC Power Supply of TPS Magnet*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

68. Y.-S. Wong(黃永信), K.-B. Liu(劉國賓), and W.-S. Wen(溫武憲), "*External Energy Dump for Superconducting Magnet of the Uni-polar Power System*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

69. C. Y. Wu(吳俊億), J. Chen(陳秀珍), Y. S. Cheng(鄭永森), P. C. Chiu(邱斐珍), Y. T. Chang(張銀濤), C. Y. Liao(廖志裕), D. Lee(李淑華), K. H. Hu(胡國華), C. H. Kuo(郭長和), and K. T. Hsu(許國棟), "*Preliminary Testing of TPS Timing System*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

70. C. Y. Wu(吳俊億), J. Chen(陳秀珍), Y. S. Cheng(鄭永森), P. C. Chiu(邱斐珍), D. Lee(李淑華), C. Y. Liao(廖志裕), K. B. Liu(劉國賓), K. T. Hsu(許國棟), K. H. Hu(胡國華), and C. H. Kuo(郭長和), "*Power Supply Control Interface for the Taiwan Photon Source*", International Conference on Accelerator and Large Experimental Physics Control System (ICALEPCS), Grenoble, France (2011).

71. C. Y. Wu(吳俊億), J. Chen(陳秀珍), Y. S. Cheng(鄭永森), P. C. Chiu(邱斐珍), D. Lee(李淑華), C. Y. Liao(廖志裕), K. B. Liu(劉國賓), K. T. Hsu(許國棟), K. H. Hu(胡國華), and C. H. Kuo(郭長和), "*Timing System of the Taiwan Photon Source*", International Conference on Accelerator and Large Experimental Physics Control System (ICALEPCS), Grenoble, France (2011).

72. C. Y. Wu(吳俊億), J. Chen(陳秀珍), K. H. Hu(胡國華), Y. S. Cheng(鄭永森), P. C. Chiu(邱斐珍), Y. T. Chang(張銀濤), C. Y. Liao(廖志裕), C. H. Kuo(郭長和), and K. T. Hsu(許國棟), "*RF Reference Distribution and Timing System for the Taiwan Photon Source*", Proceedings of DIPAC, Hamburg, Germany (2011).

73. H. Y. Yan(顏宏益), C. K. Kuan(管建銳), Z. D. Tsai(蔡宗達), I. C. Sheng(沈怡青), G. Y. Hsiung(熊高鈺), and J. R. Chen(陳俊榮), "*Design of Front End Safety Interlock System for Taiwan Photon Source*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

74. Y.-C. Yang(楊易晨), C.-L. Chen(陳慶隆), C.-C. Chang(張進春), C.-K. Chan(詹哲鎧), T.-Y. Lee(李宗諭), C.-S. Huang(黃春憲), G.-Y. Hsiung(熊高鈺), J.-R. Chen(陳俊榮), "*Manufacturing and Vacuum Testing of an Aluminum Bending Chamber for TPS*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

75. M. S. Yeh(葉孟書), F. T. Chung(鍾福財), L. J. Chen(陳令振), L. H. Chang(張隆海), T. C. Yu(尤宗旗), Y. H. Lin(林于寒), Ch. Wang(王兆恩), M. C. Lin(林明泉), and C. H. Lo(羅志宏), "*Low-level RF Control System for the Taiwan Photon Source*", International Particle Accelerator Conference (IPAC), San Sebastian, Spain (2011).

Other Publications

主導性之 SCI 論文

1. C.-E. Tsai, C. W. Lin, J. Rick, and B.-J. Hwang(黃炳照), "*Poly(Styrene Sulfonic Acid)/Poly(Vinyl Alcohol) Copolymers with Semi-interpenetrating Networks as Highly Sulfonated Proton-conducting Membranes*", J. Power Sources **196**, 5470 (2011). (I.F.=4.283) ★

2. H.-L. Chou, F.-J. Lai, W.-N. Su, K. C. Pillai, L. S. Sarma, and B.-J. Hwang(黃炳照), "*Investigation of Formation Mechanism of Pt(111) Nanoparticle Layers Grown on Ru(0001) Core*", Langmuir **27**, 1131 (2011). (I.F.=4.268) ★

3. C.-Y. Tseng, Y.-S. Ye, K.-Y. Kao, J. Joseph, W.-C. Shen, J. Rick, and B.-J. Hwang(黃炳照), "*Interpenetrating Network-forming Sulfonated Poly(vinyl alcohol) Proton Exchange Membranes for Direct Methanol Fuel Cell Applications*", Int. J. Hydrog. Energy **36**, 11936 (2011). (I.F.=4.053) ★

4. C. Y. Wu, C. K. Huang, C. Y. Chung, I. P. Huang, Y. Hwu, C. S. Yang, Y. K. Lai, L. W. Lo, and S. Y. Chiang(江素玉), "*Probing the Binding Kinetics of Proinflammatory Cytokine-antibody Interactions Using Dual Color Fluorescence Cross Correlation Spectroscopy*", Analyst **136**, 2111 (2011). (I.F.=3.913) ★

5. K. H. Lee(李凱璿), P. C. Chang, and S. J. Chang, "*AlGaN/GaN Metal-insulator-semiconductor Heterostructure Field-effect Transistor with an In-situ AlN Cap Layer*", Appl. Phys. Lett. **99**, 153505 (2011). (I.F.=3.82) ★

6. Y.-J. Wu(吳宇中), C. Y. R. Wu, and M.-C. Liang, "*Quantum Chemical Calculation on the Potential Energy Surface of H_2CO_3 and Its Implication for Martian Chmistry*", Icarus **214**, 228 (2011). (I.F.=3.813) ★

7. H.-Y. Huang, N. A. Bogdanov, L. Siurakshina, P. Fulde, J. Brink, and L. Hozoi, "*Ab Initio Calculation of d-d Excitations in Quasi-one-dimensional Cu d^9 Correlated Materials*", Phys. Rev. B **84**, 235125 (2011). (I.F.=3.774) ★

8. C. C. Lee, W. L. Lee, J. -Y. Lin, C. C. Tsuei, J. G. Lin, and F. C. Chou(周方正), "*Superconducting to Spin-glass State Transformation in β-pyrochlore $K_xOs_2O_6$*", Phys. Rev. B **83**, 104503 (2011). (I.F.=3.772) ★

9. B.-J. Hwang(黃炳照), J. Joseph, Y.-Z. Zeng, C.-W. Lin, and M.-Y. Cheng, "*Analysis of States of Water in Poly (Vinyl Alcohol) Based DMFC Membranes Using FTIR and DSC*", J. Membr. Sci. **369**, 88 (2011). (I.F.=3.673) ★

10. M.-J. Deng(鄧名傑), P.-C. Lin, J.-K. Chang, J.-M. Chen(陳錦明), and K.-T. Lu(盧桂子), "*Electrochemistry of Zn(II)/Zn on Mg Alloy from the N-butyl-N-methylpyrrolidinium Dicyanamide Ionic Liquid*", Electrochim. Acta **56**, 6071 (2011). (I.F.=3.642) ★

11. C.-L. Liu(劉振霖), J. D. Smith, D. L. Che, M. Ahmed, S. R. Leone, and K. R. Wilson, "*The Direct Observation of Secondary Radical Chain Chemistry in the Heterogeneous Reaction of Chlorine Atoms with Submicron Squalane Droplets*", Phys. Chem. Chem. Phys. **13**, 8993 (2011). (I.F.=3.453) ★

12. B.-J. Chang, S. H. Lin, L.-J. Chou, and S.-Y. Chiang(江素玉), "*Subdiffraction Scattered Light Imaging of Gold Nanoparticles Using Structured Illumination*", Opt. Lett. **36**, 4773 (2011). (I.F.=3.318) ★

13. K.-H. Lee(李凱璿), P.-C. Chang, S.-J. Chang, and S.-L. Wu, "*InGaN Metal-semiconductor-metal Photodetectors with Aluminum Nitride Cap Layers*", IEEE J. Quantum Elect. **47**, 1107 (2011). (I.F.=2.477) ★

14. Y.-C. Lee(李益志), Y.-H. Chang, Y.-Y. Chang, Y.-Y. Chen, C.-C. Tsai, and H.-C. Chui, "*Hyperfine Coupling Constants of Cesium 7D States Using Two-photon Spectroscopy*", Appl. Phys. B-Laser Opt. **105**, 391 (2011). (I.F.=2.239) ★

15. S. V. Rajasekaran, T. Tite, Y.-M. Chang, R. Sankar, and F. C. Chou(周方正), "*Local Inhomogeneity and Surface Degradation of $Fe_{1.15}Te$ and $Fe_{1.03}Te_{0.62}Se_{0.38}$ Single Crystals*", J. Mater. Sci. **46**, 7582 (2011). (I.F.=1.855) ★

16. Y.-C. Lee(李益志), C.-C. Tsai, Y.-Y. Chang, C.-H. Huang, and H.-C. Chui, "*Determining Hyperfine Transitions with Electromagnetically Induced Transparency and Optical Pumping*", Chinese Phys. B **20**, 073101 (2011). (I.F.=1.63) ★

17. Y. F. Chen, R. J. Sheu(許榮鈞), S. H. Jiang, J. N. Wang, and U. T. Lin, "*Surface Dose Rate Calculations of a Spent-fuel Storage Cask by Using Mavric and Its Comparison with SAS4 and MCNP*", Nucl. Technol. **175**, 343 (2011). (I.F.=0.662) ★

18. R. J. Sheu(許榮鈞), Y. F. Chen, S. H. Jiang, J. N. Wang, and U. T. Lin, "*Dose Evaluation for an Independent Spent-fuel Storage Installation Using Mavric*", Nucl. Technol. **175**, 335 (2011). (I.F.=0.662) ★

19. H. L. Chou, C. C. Lee, H. M. Chen, W. N. Su, and B. J. Hwang(黃炳照), "*Characterization of $K_4Nb_6O_{17}$ Synthesized by a Sol-gel Method for H_2 Evolution*", J. Chin. Inst. Eng. **34**, 3 (2011). (I.F.=0.225) ★

合作性之 SCI 論文

1. C. H. Wang, F. Davamani, S. C. Sue, S. C. Lee, P. I. Wu, F. M. Tang, C. Shih, T. H. Huang, and W. G. Wu(吳文桂), "*Cell Surface Heparan Sulfates Mediate Internalization of the PWWP/HATH Domain of HDGF via Macropinocytosis to Fine-tune Cell Signalling Processes Involved in Fibroblast Cell Migration*", Biochem. J. **433**, 127 (2011). (I.F.=5.016) ☆

2. H.-L. Chou, C.-H. Tseng, K. C. Pillai, B.-J. Hwang(黃炳照), and L.-Y. Chen, "*Surface Related Emission in CdS Quantum Dots. DFT Simulation Studies*", J. Phys. Chem. C **115**, 20856 (2011). (I.F.=4.52) ☆

3. C.-Y. Li, Y.-N. Chou, J.-R. Syu, S.-N. Hsieh, T.-D. Tsai, C.-H. Wu, T.-F. Guo, W.-C. Hsu, Y.-J. Hsu(許瑤真), and T.-C. Wen, "*Effect of Annealing ZnO on the Performance of Inverted Polymer Light-emitting Diodes Based on SAM/ZnO as an Electron Injection Layer*", Org. Electron. **12**, 1477 (2011). (I.F.=3.998) ☆

4. S. Yasuda, T. Yasuda, M.-Y. Liu(劉明毅), S. Shetty, S. Idell, V. Boggaram, M. Suiko, Y. Sakakibara, J. Fu, and M.-C. Liu, "*Sulfation of Chlorotyrosine and Nitrotyrosine by Human Lung Endothelial and Epithelial Cells: Role of the Human SULT1A3*", Toxicol. Appl. Pharmacol. **251**, 104 (2011). (I.F.=3.993) ☆

5. P. T. Li, C. J. Liao, W. G. Wu(吳文桂), L. C. Yu, and S. T. Chu, "*Progesterone-regulated B4galnt2 Expression is a Requirement for Embryo Implantation in Mice*", Fertil. Steril. **95**, 2404 (2011). (I.F.=3.958) ☆

6. H. C. Shih, L. Y. Chen, C. W. Luo, K. H. Wu, J.-Y. Lin, J. Y. Juang, T. M. Uen, J. M. Lee(李振民), J. M. Chen(陳錦明), and T. Kobayashi, "*Ultrafast Thermoelastic Dynamics of $HoMnO_3$ Single Crystals Derived from Femtosecond Optical Pump-probe Spectroscopy*", New J. Phys. **13**, 053003 (2011). (I.F.=3.849) ☆

7. L. M. Wang, U.-C. Sou, H. C. Yang, L. J. Chang, C.-M. Cheng(鄭澄懋), K.-D. Tsuei(崔古鼎), Y. Su, T. Wolf, and P. Adelmann, "*Mixed-state Hall Effect and Flux Pinning in $Ba(Fe_{1-x}Co_x)_2As_2$ Single Crystals (x = 0.08 and 0.10)*", Phys. Rev. B **83**, 134506 (2011). (I.F.=3.772) ☆

8. Y.-K. Liu, Y.-L. Lin, C.-H. Chen, C.-M. Lin, K.-L. Ma, F.-H. Chou, J.-S. Tsai(蔡錦盛), H.-Y. Lin, F.-R. Chen, T.-L. Cheng, C.-C. Chang, and K.-W. Liao, "*A Unique and Potent Protein Binding Nature of Liposome Containing Polyethylenimine and Polyethylene Glycol: A Nondisplaceable Property*", Biotechnol. Bioeng. **108**, 1318 (2011). (I.F.=3.7) ☆

9. M.-V. Le, D.-S. Tsai, C.-Y. Yang, W.-H. Chung, and H.-Y. Lee(李信義), "*Proton conductors of Cerium Pyrophosphate for Intermediate Temperature Fuel Cell*", Electrochim. Acta **56**, 6654 (2011). (I.F.=3.642) ☆

10. A. Alazizi, M.-Y. Liu(劉明毅), F. E. Williams, K. Kurogi, Y. Sakakibara, M. Suiko, and M.-C. Liu, "*Identification, characterization, and Ontogenic Study of a Catechol O-methyltransferase from Zebrafish*", Aquat. Toxicol. **102**, 18 (2011). (I.F.=3.333) ☆

11. P. T. Li, C. J. Liao, W. G. Wu(吳文桂), L. C. Yu, and S. T. Chu, "*Progesterone-regulated B4galnt2 Expression is a Requirement for Embryo Implantation in Mice*", Fertil. Steril. **95**, 2404 (2011). (I.F.=3.122) ☆

12. H.-C. Wu, B.-H. Lin(林碧軒), H.-C. Chen, P.-C. Chen, H.-S. Sheu(許火順), I.-N. Lin, H.-T. Chiu, and C.-Y. Lee, "*One-step Ge/Si Epitaxial Growth*", ACS Appl. Mater. Interfaces **3**, 2398 (2011). (I.F.=2.925) ☆

13. T.-M. Cheng, S. J..T. Mao, S.-T. Lai, C.-C. Chang, M.-C. Yang(楊明誌), N.-C. Chen(陳乃齊), S.-C. Chou, and J.-P. Pan, "*Haemoglobin-induced Oxidative Stress is Associated with Both Endogenous Peroxidase Activity and H_2O_2 Generation from Polyunsaturated Fatty Acids*", Free Radic. Res. **45**, 303 (2011). (I.F.=2.805) ☆

14. C. J. Koh, C.-L. Liu(劉振霖), C. W. Harmon, D. Strasser, A. Golan, O. Kostko, S. D. Chambreau, G. L. Vaghjiani, and S. R. Leone, "*Soft Ionization of Thermally Evaporated Hypergolic Ionic Liquid Aerosols*", J. Phys. Chem. A **115**, 4630 (2011). (I.F.=2.732) ☆

15. P.-C. Ou, W.-R. Liu(劉維仁), H.-J. Ton, J.-H. Lin, and W.-F. Hsieh, "*Ultrafast Relaxation and Absorption Saturation at Near Exciton Resonance in a Thin ZnO Epilayer*", J. Appl. Phys. **109**, 013102 (2011). (I.F.=2.064) ☆

16. C.-R. Shen, S.-T. Wu, Z.-T. Tsai, J.-J. Wang, T.-C. Yen, J.-S. Tsai(蔡錦盛), M.-F. Shih, and C.-L. Liu, "*Characterization of Quaternized Chitosan-stabilized Iron Oxide Nanoparticles as a Novel Potential Magnetic Resonance Imaging Contrast Agent for Cell Tracking*", Polym. Int. **60**, 945 (2011). (I.F.=2.056) ☆

17. C.-Y. Yen, S.-R. Jian, G.-J. Chen, C.-M. Lin, H.-Y. Lee(李信義), W.-C. Ke, Y.-Y. Liao, P.-F. Yang, C.-T. Wang, Y.-S. Lai, J. S.-C. Jang, and J.-Y. Juang, "*Influence of Annealing Temperature on the Structural, Optical and Mechanical Properties of ALD-derived ZnO Thin Films*", Appl. Surf. Sci. **257**, 7900 (2011). (I.F.=1.793) ☆

18. I. C. Cho, M. F. Weng(翁茂峰), J. M. Wu, S. Y. Chiang(江素玉), W. T. Chou, H. Niu, and C. H. Hsu, "*A Novel Cell Irradiation System Using 90°-scattering Technique*", IEEE T. Nucl. Sci. **58**, 95 (2011). (I.F.=1.519) ☆

19. Y.-H. Lin, C.-C. Yang, C.-T. Yang, S.-W. Chen(陳世偉), C.-M. Chu, and D. Chiang, "*Deep Dry Etching Patterned Silicon Using GeSbSnOx Thermal Lithography Photoresist*", IEEE T. Magn. **47**, 560 (2011). (I.F.=1.052) ☆

20. Y.-F. Chen, J.-W. Lin, R.-J. Sheu(許榮鈞), U.-T. Lin, and S.-H. Jiang, "*Measurement of Natural Background Radiation Intensity on a Train*", Radiat. Prot. Dosim. **144**, 663 (2011). (I.F.=0.966) ☆

21. H. F. Chen and Y. J. Wu(吳宇中), "*A Theoretical Study of Carbon Chains of Type C(N)F (N=1-7) in Neutral and Ionic Forms*", J. Theor. Comput. Chem. **10**, 789 (2011). (I.F.=0.8) ☆

22. S.-H. Cheng, N.-T. Chen, C.-Y. Wu, C.-Y. Chung(鍾昭宇), Y. Hwu(胡宇光), C.-Y. Mou, C.-S. Yang, and L.-W. Lo, "*Recent Advances in Dynamic Monitoring of Drug Release of Nanoparticle Using Förster Resonance Energy Transfer and Fluorescence Lifetime Imaging*", J. Chin. Chem. Soc.-Taipei **58**, 798 (2011). (I.F.=0.718) ☆

內部技術報告

1. 林宏隆，李長生，張劍虹，黃良仁，張世泓, "光束線元件定位校準儀器操作手冊", 2011
2. 張劍虹，劉金炎，李長生，林宏隆，莊瑞明，劉定國，張世泓，鍾世俊，"TPS 硬 X 光光束線白光狹縫概念設計報告", 2011
3. 劉定國，趙俊雄，張劍虹，莊瑞明，劉金炎，張家峯，姜政宏，曾建璋，周重光，簡玉成，鍾世俊, "TPS 微米 X 光蛋白質結晶學光束線概念設計報告", 2011
4. 李易達，劉國賓, "電阻式電流感測設計", 2011
5. 蔡光隆，范棋翔，施旭明，許森元，林克剛, "PFN 雙單匝線圈偏踢磁鐵系統", 2011
6. 吳怜慧, "真空聚頻磁鐵之組裝流程", 2011
7. 張家峯，劉金炎，劉定國 ,張劍虹，莊瑞明，陳慶曰，張世泓，簡玉成，鍾世俊，"BL15A 生技醫藥蛋白質結晶學光束線安全審查報告", 2011
8. 黃昭銓，劉國賓，黃永信，李易達, "修正磁鐵電源供應器 Bira MCOR30 輸出電流特性之改善", 2011
9. 黃昭銓，劉國賓，黃永信, "六極磁鐵電源供應器 Chroma62075H-30 測試報告", 2011
10. 尤宗旗，鍾福財，林于寒，陳令振，羅志宏，蔡明訓，張美霞，楊滋德，林明泉，張隆海，葉孟書，王兆恩，"高頻系統之 CPI 100-kW 調束管高功率測試之特性分析", 2011
11. 蔡光隆，范棋翔，許森元，施旭明，林克剛, "台灣光子源線型加速器的規格量測報告", 2011
12. 黃昭銓，黃永信，溫武憲，劉國賓, "零電壓切換之雙開關返馳式串順向式轉換器", 2011
13. 顏宏益，管建銑，沈怡青, "台灣光子源前端區控制系統維修技術手冊", 2011
14. 宋艷芳，于冠禮，黃玉山，黃繼億，張世泓，劉定國 ,張劍虹，李長生，湯茂竹，鍾世俊，杜昭宏，徐嘉鴻，張石麟, "TPS 時間同調 X 光繞射光束線概念設計報告", 2011
15. 王寶勝，劉國賓, "以 Shunt 為電流回授元件之數位化修正磁鐵電源供應器設計", 2011
16. 王寶勝，劉國賓, "利用 LabVIEW 進行全數位化修正磁鐵電源供應器的補償器設計", 2011
17. 張世泓，李志甫，張劍虹，莊瑞明，黃良仁，劉金炎，張家峯，劉定國，湯茂竹，鍾世俊, "NSRRC BL07A 光束線操作手冊", 2011
18. 賴惟揚，吳孟修, "TPS 儲存環支架自動準直系統設計與測試報告", 2011
19. 溫武憲，黃永信，黃昭銓，劉國賓, "數位化高精度電源供應器系統直流轉換模組量測報告", 2011
20. 林郁埼，陳建榮，劉志青，張富東，高小萍，張夢書, "台灣光子源線型加速器實驗室輻射安全分析報告", 2011
21. 梁成志，劉毅志，范正光，林再福，鍾福財，林于寒，周重光, "地震訊息報知系統", 2011
22. 李德輝，于冠禮，莊惠芳, "同步輻射 X 光二維偵檢器 ASIC 和感應器規格書", 2011
23. 梁成志，劉毅志，林再福，陳秀珍，吳俊億, "增能環速調管調制器電源設定自動調整回饋系統", 2011
24. 周家聲，李安平，黃暖雅，陳敬宏，梁成志，王端正，李英裕，劉偉強，"光陰極射頻電子槍驅動雷射系統及相關之光學設計", 2011
25. 施旭明，蔡光隆，許森元，范棋翔，林克剛, "TPS Linac 電源工程系統安裝報告", 2011

26. 張夢書，高小萍, “化學品反應性與儲存管理”, 2011

27. 王寶勝，劉國賓, “以 DSP 為基礎之數位化磁鐵電源供器三相分流式主動濾波器”, 2011

28. 張世汯，黃良仁，張劍虹，莊瑞明，劉金炎，湯茂竹，鍾世俊，“NSRRC BL16A 柔 X 光光束線概念設計報告”, 2011

29. 陳鴻樵，林耀光，范正光，梁成志，陳秀珍，黎家安，劉毅志, “增能環電子束引出效率之優化”, 2011

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 2010 JCR (Journal Citation Reports) 為資料依據。
3. “★” 表中心主導性論文(主導性論文指該論文中心同仁為第一作者或通訊作者);
“☆” 表中心合作性論文(合作性論文指該論文的作者群中有中心同仁);
“◆” 表中心協助性論文(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: 2012.05.09.