

List of Publications (2005)

SCI Publications based on TLS Experiments

1. K.-F. Huang, Y.-L. Liu, W.-J. Cheng, T.-P. Ko, and A. H.-J. Wang, "Crystal Structures of Human Glutaminyl Cyclase, an Enzyme Responsible for Protein N-terminal Pyroglutamate Formation", P. NATL. ACAD. SCI. USA **102**, 13117 (2005). (I.F.=10.452)#
2. K.-C. Hsia, C.-L. Li, and H.-S. Yuan, "Structural and Functional Insight into Sugar-nonspecific Nucleases in Host Defence", CURR. OPIN. STRUC. BIOL. **15**, 126 (2005). (I.F.=9.821)#
3. A. R. Inigo, C. C. Chang, W. Fann, J. D. White, Y.-S. Huang, U.-S. Jeng, H. S. Sheu, K.-Y. Peng, and S.-A. Chen, "Enhanced Hole Mobility in Poly-(2-methoxy-5-(2'-ethylhexoxy)-1, 4-phenylenevinylene) by Elimination of Nanometer-sized Domains", ADV. MATER. **17**, 1835 (2005). (I.F.=8.079)+
4. C.-C. Chu, G.-L. Hwang, J.-W. Chou, W.-F. Pong, C.-L. Lin, C.-Y. Tsai, H.-M. Lin, Y.-C. Chang, C.-S. Chang, A. H. Hsu, W.-L. Huang, J. H. Guo, P.-H. Chen, and T.-Y. Luh, "Polymerization of a Confined π -system: Chemical Synthesis of Tetrahedral Amorphous Carbon Nanoballs from Graphitic Carbon Nanocapsules", ADV. MATER. **17**, 2707 (2005). (I.F.=8.079)#
5. C.-Y. Chen, T.-P. Ko, T.-W. Lin, C. C. Chou, C.-J. Chen, and A. H. J. Wang, "Probing the DNA Kink Structure Induced by the Hyperthermophilic Chromosomal Protein Sac7d", NUCLEIC ACIDS RES. **33**, 430 (2005). (I.F.=7.260)+
6. S. I. Csiszar, M. W. Haverkort, Z. Hu, A. Tanaka, H. H. Hsieh, H.-J. Lin, C. T. Chen, T. Hibma, and L. H. Tjeng, "Controlling Orbital Moment and Spin Orientation in CoO Layers by Strain", PHYS. REV. LETT. **95**, 187205 (2005). (I.F.=7.218)+
7. M. W. Haverkort, Z. Hu, A. Tanaka, W. Reichelt, S. V. Streltsov, M. A. Korotin, V. I. Anisimov, H. H. Hsieh, H.-J. Lin, C. T. Chen, E. I. Khomskii, and L. H. Tjeng, "Orbital-assisted Metal-insulator Transition in VO_2 ", PHYS. REV. LETT. **95**, 196404 (2005). (I.F.=7.218)+
8. M. W. Haverkort, Z. Hu, A. Tanaka, G. Ghiringhelli, H. Roth, M. Cwik, T. Lorenz, C. Schüßler-Langeheine, S. V. Streltsov, A. S. Mylnikova, V. I. Anisimov, c. Nadai, N. B. Brookes, H. H. Hsieh, H. J. Lin, C. T. Chen, T. Mizokawa, Y. Taguchi, Y. Tokura, D. I. Khomskii, and L. H. Tjeng, "Determination of the Orbital Moment and Crystal-field Splitting in $LaTiO_3$ ", PHYS. REV. LETT. **94**, 056401 (2005). (I.F.=7.218)+
9. C. Schüßler-Langeheine, J. Schlappa, A. Tanaka, Z. Hu, C. F. Chang, E. Schierle, M. Benomar, H. Ott, E. Weschke, G. Kaindl, O. Friedt, G. A. Sawatzky, H.-J. Lin, C. T. Chen, M. Braden, and L. H. Tjeng, "Spectroscopy of Stripe Order in $La_{1.8}Sr_{0.2}NiO_4$ Using Resonant Soft X-ray Diffraction", PHYS. REV. LETT. **95**, 156402 (2005). (I.F.=7.218)+
10. W. B. Wu, D. J. Huang, J. Okamoto, A. Tanaka, H.-J. Lin, F. C. Chou, A. Fujimori, and C. T. Chen, "Orbital Symmetry and Electron Correlation in Na_xCoO_2 ", PHYS. REV. LETT. **94**, 146402 (2005). (I.F.=7.218)*
11. Y. Q. Cai, H. K. Mao, P. C. Chow, J. S. Tse, Y. Ma, S. Patchkovskii, J. F. Shu, V. Struzhkin, R. J. Hemley, H. Ishii, C. C. Chen, I. Jarrige, C. T. Chen, S. R. Shieh, E. P. Huang, and C. C. Kao, "Ordering of Hydrogen Bonds in High-pressure Low-temperature H_2O ", PHYS. REV. LETT. **94**, 025502 (2005). (I.F.=7.218)*
12. S.-L. Chang, Y. P. Stetsko, M.-T. Tang, Y.-R. Lee, W.-H. Sun, M. Yabashi, and T. Ishikawa, "X-ray Resonance in Crystal Cavities: Realization of Fabry-perot Resonator for Hard X-rays", PHYS. REV. LETT. **94**, 174801 (2005). (I.F.=7.218)+
13. B.-J. Hwang, L. S. Sarma, J.-M. Chen, C.-H. Chen, S.-C. Shih, G.-R. Wang, D.-G. Liu, J.-F. Lee, and M.-T. Tang, "Structural Models and Atomic Distribution of Bimetallic Nanoparticles as Investigated by X-ray Absorption Spectroscopy", J. AM. CHEM. SOC. **127**, 11140 (2005). (I.F.=6.903)+
14. R.-T. Guo, T.-P. Ko, A.-P. Chen, C.-J. Kuo, A. H. J. Wang, and P.-H. Liang, "Crystal Structures of Undecaprenyl Pyrophosphate Synthase in Complex with Magnesium, Isopentenyl Pyrophosphate, and Farnesyl Thiopyrophosphate: Roles of the Metal Ion and Conserved Residues in Catalysis", J. BIOL. CHEM. **280**, 20762 (2005). (I.F.=6.355)#
15. C.-H. Huang, W.-L. Lai, M.-H. Lee, C.-J. Chen, A. Vasella, Y.-C. Tsai, and S.-H. Liaw, "Crystal Structure of Glucosyltransferase from *Acremonium strictum*: A Novel Flavinylation of 6-S-cysteinyl, 8 α -N1-histidyl FAD", J. BIOL. CHEM. **280**, 38831 (2005). (I.F.=6.355)+
16. S.-C. Lee, H.-H. Guan, C.-H. Wang, W.-N. Huang, S.-C. Tjong, C. J. Chen, and W.-G. Wu, "Structural Basis of Citrate-dependent Heparan Sulfate-mediated Cell Surface Retention of Cobra Cardiotoxin A3", J. BIOL. CHEM. **280**, 9567 (2005). (I.F.=6.355)+

17. M.-F. Hsu, C.-J. Kuo, J.-M. Fang, J.-J. Shie, K.-T. Chang, H.-C. Chang, C.-C. Chou, T.-P. Ko, H.-L. Shr, G.-G. Chang, Y.-T. Wu, A. H. J. Wang, and P.-H. Liang, "*Mechanism of the Maturation Process of SARS-CoV 3CL Protease*", J. BIOL. CHEM. **280**, 31257 (2005). (I.F.=6.355)#
18. K. B. Kilunga, T. Inoue, Y. Okano, Z. Kabututu, S. K. Martin, M. Lazarus, M. Duszenko, Y. Sumii, Y. Kusakari, H. Matsumura, Y. Kai, S. Sugiyama, K. Inaka, T. Inui, and Y. Urade, "*Structural and Mutational Analysis of Trypanosoma brucei Prostaglandin H₂ Reductase Provides Insight into the Catalytic Mechanism of Aldo-ketoreductases*", J. BIOL. CHEM. **280**, 26371 (2005). (I.F.=6.355)#
19. Y. Chen, S. J. Shiue, C. W. Huang, J. L. Chang, Y. L. Chien, N. T. Hu, and N. L. Chan, "*Structure and Function of the XpsE N-terminal Domain, an Essential Component of the Xanthomonas Campestris Type II Secretion System*", J. BIOL. CHEM. **280**, 42356 (2005). (I.F.=6.355)#
20. C.-I. Wu, G.-R. Lee, and T.-W. Pi, "*Energy Structures and Chemical Reactions at the Al/LiF/Alq₃ Interfaces Studied by Synchrotron-radiation Photoemission Spectroscopy*", APPL. PHYS. LETT. **87**, 212108 (2005). (I.F.=4.308)+
21. C. K. Yang, J. W. Chiou, H. M. Tsai, C. W. Pao, J. C. Jan, S. C. Ray, C. L. Yeh, K. C. Huang, H. C. Hsueh, W. F. Pong, M.-H. Tsai, H. H. Hsieh, H. J. Lin, T. Y. Hou, and J. H. Hsu, "*Electronic Structure and Magnetic Properties of Al-doped Fe₃O₄ Films Studied by X-ray Absorption and Magnetic Circular Dichroism*", APPL. PHYS. LETT. **86**, 062504 (2005). (I.F.=4.308)+
22. Y. L. Huang, P. Chang, Z. K. Yang, Y. J. Lee, H. Y. Lee, H. J. Liu, J. Kwo, J. P. Mannaerts, and M. Hong, "*Thermodynamic Stability of Ga₂O₃(Gd₂O₃)/GaAs Interface*", APPL. PHYS. LETT. **86**, 191905 (2005). (I.F.=4.308)+
23. C. H. Huang, J. C. Jan, J. W. Chiou, H. M. Tsai, C. W. Pao, C. H. Du, W. F. Pong, M.-H. Tsai, M. T. Tang, J. J. Lee, and J. F. Lee, "*Electronic and Atomic Structures of Quasi-one-dimensional K_{0.3}MoO₃*", APPL. PHYS. LETT. **86**, 141905 (2005). (I.F.=4.308)+
24. J. C. Jan, P. D. Babu, H. M. Tsai, C. W. Pao, J. W. Chiou, S. C. Ray, K. P. K. Kumar, W. F. Pong, M.-H. Tsai, C. A. Jong, and T. S. Chin, "*Bonding Properties and Their Relation to Residual Stress and refractive Index of Amorphous Ta(N,O) Films Investigated by X-ray Absorption Spectroscopy*", APPL. PHYS. LETT. **86**, 161910 (2005). (I.F.=4.308)#
25. J. C. Jan, H. M. Tsai, C. W. Pao, J. W. Chiou, K. Asokan, K. P. K. Kumar, W. F. Pong, Y. H. Tang, M.-H. Tsai, S. Y. Kuo, and W. F. Hsieh, "*Direct Experimental Evidence of Hybridization of Pb States with O 2p States in Ferroelectric Perovskite Oxides*", APPL. PHYS. LETT. **87**, 012103 (2005). (I.F.=4.308)#
26. C.-R. Wen, Y.-J. Wang, H.-C. Wang, H.-S. Sheu, G.-H. Lee, and C. K. Lai, "*Columnar Metallomesogens Derived from 1,3,4-Oxadiazoles and X-Ray Crystal Structure of Dichlorobis [2,5-bis(3,4,5-trimethoxyphenyl) -1,3,4-oxadiazole] Palladium(II)*", CHEM. MATER. **17**, 1646 (2005). (I.F.=4.103)+
27. Y. W. Tsai, B. J. Hwang, G. Ceder, H. S. Sheu, D. G. Liu, and J. F. Lee, "*In-situ X-ray Absorption Spectroscopic Study on Variation of Electronic Transitions and Local Structure of LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Cathode Material During Electrochemical Cycling*", CHEM. MATER. **17**, 3191 (2005). (I.F.=4.103)+
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30. T.-S. Chen, F.-Y. Chung, S.-C. Tjong, K.-S. Goh, W.-N. Huang, K.-Y. Chien, P.-L. Wu, H.-C. Lin, C.-J. Chen, and W.-G. Wu, "*Structural Difference Between Group I and Group II Cobra Cardiotoxins: X-ray, NMR, CD Analysis of the Effect of Cis-proline Conformation on Three-fingered Toxins*", BIOCHEMISTRY **44**, 7414 (2005). (I.F.=4.008)+
31. Y.-C. Lo, S.-C. Lin, J.-F. Shaw, and Y.-C. Liaw, "*Substrate Specificities of Escherichia Coli Thioesterase I/Protease I/Lysophospholipase L₁ are Governed by Its Switch Loop Movement*", BIOCHEMISTRY **44**, 1971 (2005). (I.F.=4.008)#
32. H.-M. Kao, C.-C. Ting, A. S. T. Chiang, C.-C. Teng, and C.-H. Chen, "*Facile Synthesis of Stable Cubic Mesoporous Silica SBA-1 over a Broad Temperature Range with the Aid of D-fructose*", CHEM. COMMUN. **8**, 1058 (2005). (I.F.=3.997)#
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