

List of Publications (2009)

SCI Publications based on TLS Experiments

1. S.-H. Huang, C.-H. Lin, W.-C. Wu, and S.-L. Wang, "Network Topology of a Hybrid Organic Zinc Phosphate with Bimodal Porosity and Hydrogen Adsorption", *ANGEW. CHEM. INT. EDIT.* **48**, 6124 (2009). (I.F.=10.879) #
2. P. C. Jhang, Y. C. Yang, Y. C. Lai, W. R. Liu, and S. L. Wang, "A Fully Integrated Nanotubular Yellow-green Phosphor from an Environmentally Friendly Eutectic Solvent", *ANGEW. CHEM. INT. EDIT.* **48**, 742 (2009). (I.F.=10.879) #
3. Y.-G. Lin, Y.-K. Hsu, S.-Y. Chen, Y.-K. Lin, L.-C. Chen, and K.-H. Chen, "Nanostructured Zinc Oxide Nanorods with Copper Nanoparticles as a Microreformation Catalyst", *ANGEW. CHEM. INT. EDIT.* **48**, 7586 (2009). (I.F.=10.879) #
4. S. Chumnarnsilpa, W. L. Lee, S. Nag, B. Kannan, M. Larsson, L. D. Burtnick, and R. C. Robinson, "The Crystal Structure of the C-terminus of Adseverin Reveals the Actin-binding Interface", *P. NATL. ACAD. SCI. USA* **106**, 13719 (2009). (I.F.=9.38) #
5. S. Nag, Q. Ma, H. Wang, S. Chumnarnsilpa, W. L. Lee, M. Larsson, B. Kannan, M. Hernandez-Valladares, L. D. Burtnick, and R. C. Robinson, " Ca^{2+} Binding by Domain 2 Plays a Critical Role in the Activation and Stabilization of Gelsolin", *P. NATL. ACAD. SCI. USA* **106**, 13713 (2009). (I.F.=9.38) #
6. M.-T. Sung, Y.-T. Lai, C.-Y. Huang, L.-Y. Chou, H.-W. Shih, W.-C. Cheng, C.-H. Wong, and C. Ma, "Crystal Structure of the Membrane-bound Bifunctional Transglycosylase PBP1b from *Escherichia Coli*", *P. NATL. ACAD. SCI. USA* **106**, 8824 (2009). (I.F.=9.38) #
7. W. H. Chang, C. H. Lee, Y. C. Chang, P. Chang, M. L. Huang, Y. J. Lee, C. H. Hsu, J. M. Hong, C. C. Tsai, J. R. Kwo, and M. Hong, "Nanometer-thick Single-crystal Hexagonal Gd_2O_3 on GaN for Advanced Complementary Metal-oxide-semiconductor Technology", *ADV. MATER.* **21**, 4970 (2009). (I.F.=8.191) *
8. Y.-F. Huang, C.-W. Chang, D.-M. Smilgies, U.-S. Jeng, A. R. Inigo, J. D. White, K.-C. Li, T.-S. Lim, T.-D. Li, H.-Y. Chen, S.-A. Chen, W.-C. Chen, and W.-S. Fann, "Correlating Nanomorphology with Charge-transport Anisotropy in Conjugated-polymer Thin Films", *ADV. MATER.* **21**, 2988 (2009). (I.F.=8.191) +
9. H. M. Chen, C. F. Hsin, P. Y. Chen, R.-S. Liu, S.-F. Hu, C.-Y. Huang, J.-F. Lee, and L.-Y. Jang, "Ferromagnetic $CoPt_3$ Nanowires: Structural Evolution from Fcc to Ordered $L1_2$ ", *J. AM. CHEM. SOC.* **131**, 15794 (2009). (I.F.=8.091) +
10. R. M. Ho, Y. W. Chiang, C. K. Chen, H. W. Wang, H. Hasegawa, S. Akasaka, E. L. Thomas, C. Burger, and B. S. Hsiao, "Block Copolymers with a Twist", *J. AM. CHEM. SOC.* **131**, 18533 (2009). (I.F.=8.091) #
11. C.-S. Lee, S.-L. Wang, and K.-H. Lii, " $Cs_2K(UO)_2Si_4O_{12}$: a Mixed-valence Uranium(IV, V) Silicate", *J. AM. CHEM. SOC.* **131**, 15116 (2009). (I.F.=8.091) #
12. Y. H. Lee, C. Z. Chang, S. L. Yau, L. J. Fan, Y. W. Yang, L.-Y. O. Yang, and K. Itaya, "Conformations of Polyaniline Molecules Adsorbed on Au(111) Probed by in Situ STM and ex Situ XPS and NEXAFS", *J. AM. CHEM. SOC.* **131**, 6468 (2009). (I.F.=8.091) +
13. M.-H. Lin, C.-F. Chen, H.-W. Shiu, C.-H. Chen, and S. Gwo, "Multilength-scale Chemical Patterning of Self-assembled Monolayers by Spatially Controlled Plasma Exposure: Nanometer to Centimeter Range", *J. AM. CHEM. SOC.* **131**, 10984 (2009). (I.F.=8.091) +
14. M.-C. Liu, H.-S. Sheu, and S. Cheng, "Anion-exchange Induced Phase Transformation of Mesostructured Silica", *J. AM. CHEM. SOC.* **131**, 3998 (2009). (I.F.=8.091) +
15. C. S. Tsao, M. S. Yu, C. Y. Wang, P. Y. Liao, H. L. Chen, U. S. Jeng, Y. R. Tzeng, T. Y. Chung, and H. C. Wu, "Nanostructure and Hydrogen Spillover of Bridged Metal-organic Frameworks", *J. AM. CHEM. SOC.* **131**, 1404 (2009). (I.F.=8.091) +
16. Y.-T. Wang, J. D. Wright, L. G. Doudeva, H. C. Jhang, C. Lim, and H. S. Yuan, "Redesign of High-affinity Nonspecific Nucleases with Altered Sequence Preference", *J. AM. CHEM. SOC.* **131**, 17345 (2009). (I.F.=8.091) #
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18. C. F. Chang, Z. Hu, H. Wu, T. Burnus, N. Hollmann, M. Benomar, T. Lorenz, A. Tanaka, H.-J. Lin, H. H. Hsieh, C. T. Chen, and L. H. Tjeng, "*Spin Blockade, Orbital Occupation, and Charge Ordering in $La_{1.5}Sr_{0.5}CoO_4$* ", PHYS. REV. LETT. **102**, 116401 (2009). (I.F.=7.18) +
19. Y. J. Choi, J. Okamoto, D. J. Huang, K. S. Chao, H. J. Lin, C. T. Chen, M. V. Veenendaal, T. A. Kaplan, and S. W. Cheong, "*Thermally or Magnetically Induced Polarization Reversal in the Multiferroic $CoCr_2O_4$* ", PHYS. REV. LETT. **102**, 067601 (2009). (I.F.=7.18) +
20. H. W. Ou, J. F. Zhao, Y. Zhang, B. P. Xie, D. W. Shen, Y. Zhu, Z. Q. Yang, J. G. Che, X. G. Luo, X. H. Chen, M. Arita, K. Shimada, H. Namatame, M. Taniguchi, C. M. Cheng, K. D. Tsuei, and D. L. Feng, "*Novel Electronic Structure Induced by a Highly Strained Oxide Interface with Incommensurate Crystal Fields*", PHYS. REV. LETT. **102**, 026806 (2009). (I.F.=7.18) +
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22. P.-H. Kuo, L. G. Doudeva, Y.-T. Wang, C.-K. J. Shen, and H. S. Yuan, "*Structural Insights into TDP-43 in Nucleic-acid Binding and Domain Interactions*", NUCLEIC ACIDS RES. **37**, 1799 (2009). (I.F.=6.878) #
23. Y.-H. Lo, K.-L. Tsai, Y.-J. Sun, W.-T. Chen, C.-Y. Huang, and C.-D. Hsiao, "*The Crystal Structure of a Replicative Hexameric Helicase DnaC and Its Complex with Single-stranded DNA*", NUCLEIC ACIDS RES. **37**, 804 (2009). (I.F.=6.878) #
24. Y. C. Chen, D. C. Lee, C. Y. Hsiao, Y. F. Chung, H. C. Chen, J. P. Thomas, W. F. Pong, N. H. Tai, I. N. Lin, and I. M. Chiu, "*The Effect of Ultra-nanocrystalline Diamond Films on the Proliferation and Differentiation of Neural Stem Cells*", BIOMATERIALS **30**, 3428 (2009). (I.F.=6.646) #
25. Y.-L. Chiu, S.-C. Chen, C.-J. Su, C.-W. Hsiao, Y.-M. Chen, H.-L. Chen, and H.-W. Sung, "*PH-triggered Injectable Hydrogels Prepared from Aqueous N-palmitoyl Chitosan: in Vitro Characteristics and in Vivo Biocompatibility*", BIOMATERIALS **30**, 4877 (2009). (I.F.=6.646) +
26. S. F. Peng, M. J. Yang, C. J. Su, H. L. Chen, P. W. Lee, M. C. Wei, and H. W. Sung, "*Effects of Incorporation of Poly(γ -glutamic Acid) in Chitosan/DNA Complex Nanoparticles on Cellular Uptake and Transfection Efficiency*", BIOMATERIALS **30**, 1797 (2009). (I.F.=6.646) #
27. Y.-J. Wu, H.-F. Chen, C. Camacho, H. A. Witek, S.-C. Hsu, M.-Y. Lin, S.-L. Chou, J. F. Ogilvie, and B.-M. Cheng, "*Formation and Identification of Interstellar Molecule Linear C_5H from Photolysis of Methane Dispersed in Solid Neon*", ASTROPHYS. J. **701**, 8 (2009). (I.F.=6.331) *
28. S. Seshadri, T. Akiyama, R. Opassiri, B. Kuaprasert, and J. K. Cairns, "*Structural and Enzymatic Characterization of Os3BGlu6, a Rice β -Glucosidase Hydrolyzing Hydrophobic Glycosides and (1->3)- and (1->2)-linked Disaccharides^{[C][W][OA]}*", PLANT PHYSIOL. **151**, 47 (2009). (I.F.=6.11) #
29. Y.-Y. Hsiao, A. Nakagawa, Z. Shi, S. Mitani, D. Xue and H. S. Yuan, "*Crystal Structure of CRN-4: Implications for Domain Function in Apoptotic DNA Degradation*", MOL. CELL. BIOL. **29**, 448 (2009). (I.F.=5.942) #
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34. H.-M. Wu, S.-W. Liu, M.-T. Hsu, C.-L. Hung, C.-C. Lai, W.-C. Cheng, H.-J. Wang, Y.-K. Li, and W.-C. Wang, "*Structure, Mechanistic Action, and Essential Residues of a GH-64 Enzyme, Laminaripentaose-producing β -1, 3-glucanase*", J. BIOL. CHEM. **284**, 26708 (2009). (I.F.=5.52) #
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