

## 2008 SRC PUBLICATIONS

63 Items Published

1. **H. Cheun, X. Liu, F. J. Himpsel, M. Knaapila, U. Scherf, M. Torkkeli, and M. J. Winokur**, "Polarized Optical Absorption Spectroscopy, NEXAFS, and GIXRD Measurements of Chain Alignment in Polyfluorene Thin Films," *Macromolecules* **41**, 6463–6472 (2008).
2. **L. Li, X. Shi, C. M. Evans, and G. L. Findley**, "Xenon Low- $n$  Rydberg States in Supercritical Argon Near the Critical Point," *Chem. Phys. Lett.* **461**, 207–210 (2008).
3. **X. B. Shi, L. X. Li, G. M. Moriarty, C. M. Evans, and G. L. Findley**, "Energy of the Quasi-Free Electron in Low Density Ar and Kr: Extension of the Local Wigner-Seitz Model," *Chem. Phys. Lett.* **454**, 12–16 (2008).
4. **R. Wehlitz, P. N. Juranić, and D. V. Lukić**, "Double Photoionization of Magnesium from Threshold to 54 eV Photon Energy," *Phys. Rev. A* **78**, 033428 (2008).
5. **S. B. Whitfield, K. Caspary, R. Wehlitz, and M. Martins**, "Photoionization of Atomic Thulium in the Region of the 5p Excitations," *J. Phys. B* **41**, 015001 (2008).
6. **P. N. Juranić and R. Wehlitz**, "Triple Photoionization of Lithium Up to 650 eV Photon Energy," *Phys. Rev. A* **78**, 033401 (2008).
7. **T. Arakane, T. Sato, T. Takahashi, H. Ding, T. Fujii, and A. Asamitsu**, "Universal Character of CoO<sub>2</sub> Plane Studied by High-Resolution Angle-Resolved Photoemission," *Physica B* **403**, 1086–1088 (2008).
8. **D. Ariosa, C. Cancellieri, P. H. Lin, and D. Pavuna**, "Fermi Surface Determination from Wavevector Quantization in LaSrCuO Films," *Appl. Phys. Lett.* **92**, 092506 (2008).
9. **T. Durakiewicz, P. S. Riseborough, C. G. Olson, J. J. Joyce, P. M. Oppeneer, S. Elgazzar, E. D. Bauer, J. L. Sarrao, E. Guziewicz, D. P. Moore, M. T. Butterfield, and K. S. Graham**, "Observation of a Kink in the Dispersion of f-Electrons," *EPL* **84**, 37003 (2008).
10. **C. Euaruksakul, Z. W. Li, F. Zheng, F. J. Himpsel, C. S. Ritz, B. Tanto, D. E. Savage, X. S. Liu, and M. G. Lagally**, "Influence of Strain on the Conduction Band Structure of Strained Silicon Nanomembranes," *Phys. Rev. Lett.* **101**, 147403 (2008).
11. **D. Hsieh, D. Qian, L. Wray, Y. Xia, Y. S. Hor, R. J. Cava, and M. Z. Hasan**, "A Topological Dirac Insulator in a Quantum Spin Hall Phase," *Nature* **452**, 970–974 (2008).
12. **Kanigel, U. Chatterjee, M. Randeria, M. R. Norman, G. Koren, K. Kadowaki, and J. C. Campuzano**, "Evidence for Pairing Above the Transition Temperature of Cuprate Superconductors from the Electronic Dispersion in the Pseudogap Phase," *Phys. Rev. Lett.* **101**, 137002 (2008).
13. **Y. Liu, J. J. Paggel, M. H. Upton, T. Miller, and T.-C. Chiang**, "Quantized Electronic Structure and Growth of Pb Films on Highly Oriented Pyrolytic Graphite," *Phys. Rev. B* **78**, 235437 (2008).
14. **Y. Liu, N. J. Speer, S. J. Tang, T. Miller, and T.-C. Chiang**, "Interface-Induced Complex Electronic Interference Structures in Ag Films on Ge(111)," *Phys. Rev. B* **78**, 035443-1–035443-4 (2008).
15. **D. Pavuna, D. Ariosa, C. Cancellieri, D. Cloetta, and M. Abrecht**, "Direct Angle Resolved Photoelectron Spectroscopy (DARPES) on High- $T_c$  Films: Doping, Strains, Fermi Surface Topology and Superconductivity," *J. Phys. Conf. Series* **108**, 012040 (2008).

16. **D. Pavuna, D. Ariosa, D. Cloetta, C. Cancellieri, and M. Abrecht**, "Direct Angle Resolved Photoemission Spectroscopy and Superconductivity of Strained High- $T_c$  Films," *Pramana-J. Phys.* **70**, 237–243 (2008).
17. **S. Raj, T. Sato, S. Souma, T. Takahashi, D. D. Sarma, P. Mahadevan, J. C. Campuzano, M. Greenblatt, and W. H. McCarroll**, "Direct Evidence for Hidden One-Dimensional Fermi Surface of Hexagonal  $K_{0.25}WO_3$ ," *Phys. Rev. B* **77**, 245120 (2008).
18. **J. C. E. Rasch, T. Stemmler, B. Müller, L. Dudy, and R. Manzke**, "1T-TiSe<sub>2</sub>: Semimetal or Semiconductor?" *Phys. Rev. Lett.* **101**, 237602 (2008).
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24. **P. Starowicz, C. Liu, R. Khasanov, T. Kondo, G. Samolyuk, D. Gardenghi, Y. Lee, T. Ohta, B. Harmon, P. Canfield, S. Bud'ko, E. Rotenberg, and A. Kaminski**, "Direct Observation of a Fermi Surface and Superconducting Gap in  $LuNi_2B_2C$ ," *Phys. Rev. B* **77**, 134520 (2008).
25. **S.-J. Tang, W. Chang, Y. Chiu, H. Chen, C. Cheng, K. Tsuei, T. Miller, and T.-C. Chiang**, "Enhancement of Subband Effective Mass in  $Ag/Ge(111)$  Thin Film Quantum Wells," *Phys. Rev. B* **78**, 245407 (2008).
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29. **R. A. Bosch**, "Longitudinal Wakes of a Short Magnet, Coherent Transition Radiation, and Coherent Diffraction Radiation for an Ultrarelativistic Electron Bunch," *Phys. Rev. ST Accel. Beams* **11**, 100704 (2008).

30. **R. A. Bosch, K. J. Kleman, and J. Wu**, "Modeling Two-Stage Bunch Compression with Wakefields: Macroscopic Properties and Microbunching Instability," *Phys. Rev. ST Accel. Beams* **11**, 090702 (2008).
31. **R. A. Legg, W. S. Graves, T. Grimm, and P. Piot**, "Half Wave Injector Design for WIFEL," *Proc. 2008 Euro. Part. Accel. Conf.*, 469–471 (2008).
32. **M. H. Stockett, M. P. Wood, S. Nagarajan, and J. E. Lawler**, "Echelle Spectrograph Optimized for a Diffuse Interstellar Band Carrier Search using Synchrotron Radiation," *Appl. Opt.* **47**, 5390–5393 (2008).
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34. **S. P. Cullen, X. Liu, I. C. Mandel, F. J. Himpfel, and P. Gopalan**, "Polymeric Brushes as Functional Templates for Immobilizing Ribonuclease A: Study of Binding Kinetics and Activity," *Lang.* **24**, 913–920 (2008).
35. **K. Jilkine, K. M. Gough, R. Julian, and S. G. W. Kaminskyj**, "A Sensitive Method for Examining Whole-Cell Biochemical Composition in Single Cells of Filamentous Fungi using Synchrotron FTIR Spectromicroscopy," *J. Inorg. Biochem.* **102**, 540–546 (2008).
36. **S. Kaminskyj, K. Jilkine, A. Szeghalmi, and K. Gough**, "High Spatial Resolution Analysis of Fungal Cell Biochemistry—Bridging the Analytical Gap using Synchrotron FTIR Spectromicroscopy," *FEMS Microbiol. Lett.* **284**, 1–8 (2008).
37. **L. C. W. MacLean, T. Tyliszczak, P. U. P. A. Gilbert, D. Zhou, T. J. Pray, T. C. Onstott, and G. Southam**, "A High-Resolution Chemical and Structural Study of Framboidal Pyrite Formed within a Low-Temperature Bacterial Biofilm," *Geobiology* **6**, 471–480 (2008).
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43. **F. A. Detcheverry, H. M. Kang, K. C. Daoulas, M. Müller, P. F. Nealey, and J. J. de Pablo**, "Monte Carlo Simulations of a Coarse Grain Model for Block Copolymers and Nanocomposites," *Macromolecules* **41**, 4989–5001 (2008).
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