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Education

Johns Hopkins University, Baltimore, MD
Ph.D. in Physics, March, 2001
M. S. in Physics, May, 1998
University of Science and Technology of China, Hefei, P. R. China
M. S. in Physics, June, 1995
B. A. in Physics, June, 1992

Experience

Ohio State University (September, 2003 – present)

- Assistant Professor, Department of Physics.

Johns Hopkins University (April, 2001 – August, 2003)

- Associate Research Scientist, Materials Research Science and Engineering Center (MRSEC).

Johns Hopkins University, Department of Physics and Astronomy (September, 1995 - March, 2001)

- Research Assistant, Advisor: Professor C. L. Chien. (June, 1998 - March, 2001)
- Teaching Assistant (September, 1995 - May, 1998)

University of Science & Technology of China, Department of Physics (1992 - 1995)

- Research assistant in the National Synchrotron Radiation Laboratory in China.

Honors

- Guanhua Scholarship, University of Science & Technology of China, P. R. China, 1993.
- Guo Moruo Award, University of Science & Technology of China, P. R. China, 1992.
- Zhang Zhongzhi Award, University of Science & Technology of China, P. R. China, 1991.
- First-Class Fellowship, University of Science & Technology of China, P. R. China, 1989-1991.

Publications

- (1). F. Y. Yang and C. L. Chien, "Oscillatory Exchange Bias due to an Antiferromagnet with Incommensurate Spin Density Wave", *Phys. Rev. Lett.* 90, 147201 (2003).
- (2). F. Y. Yang, C. L. Chien, "Exchange coupling between Cr and ferromagnetic thin films", *J. Appl. Phys.* 93, 6829 (2003).
- (3). Q. Zhu, F. Y. Yang, C. L. Chien, L. Ritchie, G. Xiao, and G. H. Wu, "Ferromagnetic Shape Memory Alloys $\text{Ni}_{51.9}\text{Mn}_{23.2}\text{Ga}_{24.9}$ with Martensitic Transition Near Room Temperature," Submitted to *Appl. Phys. Lett.*
- (4). F. Y. Yang, C. H. Shang, C. L. Chien, T. Ambrose, J. J. Krebs, G. A. Prinz, V. I. Nikitenko, V. S. Gornakov, A. J. Shapiro, and R. D. Shull, "Multi-Step Magnetic Switching in Single-Crystal (001) Co_2MnGe Films", *Phys. Rev. B* 65, 174410 (2002).
- (5). Y. Ji, G. J. Strijkers, F. Y. Yang, and C. L. Chien, "A comparison of two models for spin polarization measurements by Andreev reflection", *Phys. Rev. B* 64, 224425 (2001).
- (6). G. J. Strijkers, F. Y. Yang, D. H. Reich, P. C. Searson, C. L. Chien, Y. M. Strelniker, and D. J. Bergman, "Magnetoresistance anisotropy of a Bi antidot array", *IEEE Tran. Magn.* 37, 2067 (2001).
- (7). Y. Ji, G. J. Strijkers, F. Y. Yang, C. L. Chien, J. M. Byers, A. Anguelouch, G. Xiao, and A. Gupta, "Determination of the Spin Polarization of Half-Metallic CrO_2 by Point Contact Andreev Reflection", *Phys. Rev. Lett.* 86, 5585 (2001).

- (8). F. Y. Yang, G. J. Strijkers, K. Hong, D. H. Reich, C. L. Chien, and P. C. Searson, "Large Magnetoresistance and Lateral Finite Size Effect in Thin Lines of Bi Films made by Electrodeposition", *J. Appl. Phys.* 89, 7206 (2001).
- (9). G. J. Strijkers, Y. Ji, F. Y. Yang, C. L. Chien, and J. M. Byers, "Andreev Reflections at Metal/Superconductor Point-Contacts: Measurement and Analysis", *Phys. Rev. B* 63, 104510 (2001).
- (10). F. Y. Yang, C. L. Chien, X. W. Li, A. Gupta, and G. Xiao, "Critical-point behavior in Epitaxial CrO₂ Films", *Phys. Rev. B* 63, 092403 (2001).
- (11). G. J. Strijkers, S. M. Zhou, F. Y. Yang, and C. L. Chien, "Magnetic characterization and modeling of exchange-bias artificial antiferromagnet FeMn/Co/Ru/Co", *Phys. Rev. B* 62, 13896 (2000).
- (12). F. Y. Yang and C. L. Chien, "Spiraling spin structure in exchange-coupled antiferromagnetic layer", *Phys. Rev. Lett.* 85, 2597 (2000).
- (13). C. L. Chien, F. Y. Yang, K. Liu, D. H. Reich, and P. C. Searson, "Very Large Magnetoresistance in Electrodeposited Single-Crystal Bi Thin Films", *J. Appl. Phys.* 87, 4659 (2000).
- (14). F. Y. Yang, C. L. Chien, X. W. Li, A. Gupta, and G. Xiao, "Uniaxial Anisotropy and Switching Behavior in Epitaxial CrO₂ Films", *Appl. Phys. Lett.* 77, 286 (2000).
- (15). F. Y. Yang, K. Liu, K. Hong, D. H. Reich, P. C. Searson, C. L. Chien, Y. Leprince-Wang, K. Yu-Zhang, and K. Han, "Shubnikov - de Haas Oscillations in Electrodeposited Single-Crystal Bismuth Films", *Phys. Rev. B* 61, 6631 (2000).
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- (17). K. Hong, F. Y. Yang, K. Liu, D. H. Reich, C. L. Chien, P. C. Searson, F. F. Balakirev, and G. S. Boebinger, "Giant positive magnetoresistance of Bi nanowire arrays in high magnetic fields", *J. Appl. Phys.* 85, 6184 (1999).
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- (19). D. Y. Ban, F. Y. Yang, R. C. Fang, S. H. Xu, and P. S. Xu, "Interface formation of Ge/ZnSe(100) and Ge/ZnS(111) heterojunctions studied by synchrotron radiation photoemission", *ACTA Physica Sinica-Overseas Edition* 5, 590 (1996).
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- (21). F. Y. Yang, D. Y. Ban, R. C. Fang, S. H. Xu, P. S. Xu, and S. X. Yuan, "Valence band offset and interface formation of Ge/ZnSe(100) studied by synchrotron radiation photoemission", *Journal of Electron Spectroscopy and Related Phenomena* 80, 193(1996).
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Patent

- F. Y. Yang, K. Liu, C. L. Chien, and P. C. Searson, "Bismuth thin films structure and method of construction", U.S. Patent # 6,358,392, March 19, 2002.