

# Hongtao Shi's Publications

August 24, 2006

## PUBLICATIONS

- 31** Parallel versus antiparallel interfacial coupling in exchange biased  $Co/FeF_2$   
Hendrik Ohldag, **Hongtao Shi**, Elke Arenholz, Joachim Stohr, and David Lederman  
Physical Review Letters, **96**, 027203 (Jan. 2006)
- 30** Exchange bias of polycrystalline Co on single-crystalline  $Fe_xZn_{1-x}F_2$  thin films  
**Hongtao Shi**, Zhongyuan Liu, and David Lederman  
Physical Review B, **72**, 224417 (Dec. 2005)
- 29** Superparamagnetic behavior of cobalt nanodots on  $Al_2O_3$  (0001)  
J. Espinosa, **Hongtao Shi**, and D. Lederman  
Journal of Applied Physics, **97**, 10B310 (May, 2005)
- 28** Electrical and magnetic properties of  $La_{2/3}Ca_{1/3}MnO_3/YBa_2Cu_3O_{7-\delta}/La_{2/3}Ca_{1/3}MnO_3$   
trilayers  
F. Perez, E. Baca, W. Saldarriaga, L. F. Castro, M. E. Gomez, P. Prieto, **Hongtao Shi** and D. Lederman  
Journal of Applied Physics, **97**, 10B115 (May, 2005)
- 27** Exchange bias and enhancement of the Neel temperature in thin  $NiF_2$  films  
**Hongtao Shi**, D. Lederman, K. V. O'Donovan, and J. A. Borchers  
Physical Review B, **69**, 214416 (2004)
- 26** Exchange-induced anisotropies at ferromagnetic-antiferromagnetic interfaces above  
and below the Neel temperature  
M. Grimsditch, A. Hoffmann, P. Vavassori, **Hongtao Shi**, and D. Lederman  
Physical Review Letters, **90**, 257201 (2003)
- 25** Temperature-induced sign change of the exchange bias in  $Fe_{0.82}Zn_{0.18}F_2/Co$  bi-  
layers  
**Hongtao Shi**, D. Lederman, N.R. Dilley, R.C. Black, J. Diedrichs, K. Jensen and  
M.B. Simmons  
Journal of Applied Physics, **93**, 8600 (2003)

- 24** Exchange bias field flop in  $FeF_2/Co$  bilayers  
**Hongtao Shi** and D. Lederman  
 Physical Review B, **66**, 094426 (2002)
- 23** Exchange bias in  $FeF_2/Co$  bilayers  
**Hongtao Shi**, D. Lederman, and E. E. Fullerton  
 Journal of Applied Physics, **91**, 7763 (2002)
- 22** Growth study of epitaxial  $Fe_xZn_{1-x}F_2$  thin films  
 J. McChesney, M. Hetzer, **Hongtao Shi**, T. Charlton, and D. Lederman  
 Journal of Materials Research, **16**, 1769 (2001)
- 21** Annealed  $Co$  thin films: Pit formation and magnetic anisotropy  
**Hongtao Shi** and D. Lederman  
 Journal of Applied Physics, **87**, pt.1-3, 6095 (2000)
- 20** Surface smoothing and crystalline reorientation in thin cobalt films  
**Hongtao Shi** and D. Lederman  
 Physical Review B, **58**, R1778 (1998)
- 19** Electrical and optical properties of  $InGaN/AlGaN$  double heterostructure blue light emitting diodes  
 Z. Chen, B. Shen, K. Yang, **Hongtao Shi**, P. Chen, Y. Zheng, and X. Li  
 Semiconductor Optoelectronics, **19**, 256 (1998)
- 18** Influence of metallic impurities on oxygen precipitation in Czochralski-grown silicon  
 B. Shen, K. Yang, X. Zhang, **Hongtao Shi**, R. Zhang, Y. Shi, Y. Zheng, T. Sekiguchi, and K. Sumino  
 Chinese Journal of Semiconductors, **18**, 118 (1997)
- 17** Photorefectance study of  $GaN$  films grown by MOCVD  
 K. Yang, R. Zhang, L. Zang, L. Qin, B. Shen, **Hongtao Shi**, Y. Zheng, Z. Huang, and J. Chen  
 Research & Progress of Solid State Electronics, **17**, 188 (1997)
- 16** Optical property studies of  $GaN$  films grown by MOCVD  
 R. Zhang, K. Yang, L. Qin, B. Shen, **Hongtao Shi**, Y. Zheng, Z. Huang, and J. Chen  
 Chinese Journal of Semiconductors, **18**, 91 (1997)
- 15** Developments in the study of  $GaN$ -based blue light devices  
 Y. Zheng, B. Shen, **Hongtao Shi**, R. Zhang, K. Yang, P. Cheng and X. Li  
 Optoelectronic Technology, **16**, 286 (1996)
- 14** Optical properties of  $GaN$  film grown by metalorganic chemical vapor deposition  
 R. Zhang, K. Yang, L. Qin, B. Shen, **Hongtao Shi**, Y. Shi, Y. Zheng, Z. Huang, and J. Chen  
 Journal of Vacuum Science & Technology A, **14**, 840 (1996)

- 13** A clarification of optical transition of  $\beta - FeSi_2$  film  
L. Wang, C. Lin, X. Chen, S. Zou, L. Qin, **Hongtao Shi**, W. Shen, and M. Ostling  
Solid State Communications, **97**, 385 (1996)
- 12** Precipitation of *Cu* and *Fe* in dislocated floating-zone-grown silicon  
B. Shen, T. Sekiguchi, R. Zhang, Y. Shi, **Hongtao Shi**, K. Yang, Y. Zheng, and  
K. Sumino  
Japanese Journal of Applied Physics, Part 1: Regular Papers & Short Notes &  
Review Papers, **35**, 3301 (1996)
- 11** Optical properties of *GaN* films grown on  $\alpha - Al_2O_3$  substrate  
K. Yang, R. Zhang, L. Qin, B. Shen, **Hongtao Shi**, Y. Zheng, Z. Huang, and J.  
Chen  
High Technology Communications, 10, **29** (1996)
- 10** Blue light emitting semiconductor *SiC*: material, device and technology  
R. Zhang, **Hongtao Shi**, S. Yu, K. Yang, B. Shen, and Y. Zheng  
Research & Progress of Solid State Electronics, **16**, 94 (1996)
- 09** Cubic silicon carbide film growth and characterization by hot filament chemical  
vapor deposition  
**Hongtao Shi**, R. Zhang, Y. Zheng, Y. He, and X. Liu  
Chinese Physics Letters, **11**, 709 (1994)
- 08** Ellipsometric studies of porous silicon  
L. Qin, Y. Zheng, R. Zhang, S. Gu, **Hongtao Shi**, and D. Feng  
Applied Physics A (Solids and Surfaces), **58**, 163 (1994)
- 07** Growth of *SiC* single crystal film on *Si* at low temperature by hot filament chemical  
vapor deposition  
R. Zhang, **Hongtao Shi**, Y. Zheng, S. Yu, Y. He, and X. Liu  
High Technology Communications, **11**, 10 (1994)
- 06** The future of silicon optoelectronic integration: current-induced light emission  
from porous silicon  
**Hongtao Shi** and Y. Zheng  
Chinese Physics, **22**, 715 (1993)
- 05** Temperature-dependent photoluminescence and Raman spectra from porous *GeSi/Si*  
heterostructures  
**Hongtao Shi**, Y. Zheng, Y. Wang, and R. Yuan  
Applied Physics A (Solids and Surfaces), **57**, 573 (1993)
- 04** Current-induced light emission from a porous silicon device  
**Hongtao Shi**, Y. Zheng, Y. Wang, and R. Yuan  
Research & Progress of Solid State Electronics, **13**, 201(1993)
- 03** Electrically induced light emission and novel photocurrent response of a porous  
silicon device

**Hongtao Shi**, Y. Zheng, Y. Wang, and R. Yuan  
Applied Physics Letters, **63**, 770 (1993)

**02** Phonon participation in the light emission process of porous *GeSi* layer  
**Hongtao Shi**, Y. Zheng, and R. Yuan  
Chinese Physics Letters, **10**, 317 (1993)

**01** Current-induced light emission from a laterally anodizing porous silicon device  
**Hongtao Shi**, Y. Zheng, Y. Wang, and R. Yuan  
Chinese Physics Letters, **9**, 555 (1992)

## CONFERENCE PROCEEDINGS

- 06** Study of electrical and optical properties of *InGaN/AlGaN* double heterostructure blue light emitting diodes  
B. Shen, **Hongtao Shi**, K. Yang, Z. Chen, Y. Zhou, P. Chen, R. Zhang, and Y. Zheng  
Fifth International Conference on Solid-State and Integrated Circuit Technology Proceedings (Cat. No. 98EX105), 689-92 (1998)
- 05** Electrical and optical properties of *InGaN/AlGaN* double heterostructure blue light emitting diodes  
K. Yang, **Hongtao Shi**, B. Shen, R. Zhang, Z. Chen, P. Chen, and Y. Zheng  
Gallium Nitride and Related Materials II: Symposium held April 1-4, 1997, San Francisco, California. Materials Research Society Symposium Proceedings, **468**, 469-74 (1997)
- 04** Optical and structural properties of  $\alpha - Si_{1-x}C_x$  films  
Z. Chen, K. Yang, R. Zhang, **Hongtao Shi**, and Y. Zheng  
III-Nitride, SiC and Diamond Materials for Electronic Devices: Symposium held April, 1996, San Francisco, California. Materials Research Society Symposium Proceedings, **423**, 753-7 (1996)
- 03** Photorefectance study of *GaN* film grown by metalorganic chemical vapor deposition  
K. Yang, R. Zhang, Y. Zheng, L. Qin, B. Shen, **Hongtao Shi**, Z. Huang, and J. Chen  
III-Nitride, SiC and Diamond Materials for Electronic Devices: Symposium held April, 1996, San Francisco, California. Materials Research Society Symposium Proceedings, **423**, 735-9 (1996)
- 02** Optical characterization of *GaN* films grown on (0001) sapphire substrate  
K. Yang, R. Zhang, Y. Zheng, L. Qin, B. Shen, **Hongtao Shi**, Z. Huang, and J. Chen  
III-Nitride, SiC and Diamond Materials for Electronic Devices: Symposium held April, 1996, San Francisco, California. Materials Research Society Symposium Proceedings, **423**, 747-52 (1996)
- 01** Growth of  $\beta - SiC$  film on *Si* by hot-filament CVD  
R. Zhang, **Hongtao Shi**, S. Yu, Y. Zheng, Y. He, and X. Liu  
Diamond, SiC and Nitride Wide Bandgap Semiconductor: Symposium held April 4-8, 1994, San Francisco, California. Materials Research Society Symposium Proceedings, **339**, 747-52 (1994)