

References

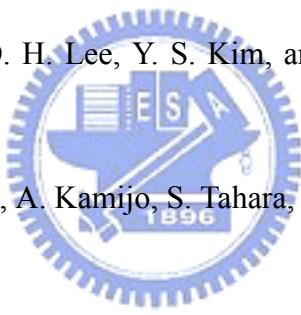
- [1] S. Parkin, X. Jiang, C. Kaiser, A. Panchula, K. Roche, and M. Samant, *Proceedings of the IEEE*, **91**, 5, pp. 661 (May 2003)
- [2] S. A. Wolf, D. D. Awschalom, R. A. Buhrman, J. M. Daughton, S. von Molnár, M. L. Roukes, A. Y. Chtchelkanova, and D. M. Treger, *Science*, **294**, 1488 (2001)
- [3] W. J. Gallagher and S. S. P. Parkin, *IBM J. Res. & Dev.*, **50**, pp. 5 (January 2006)
- [4] S. S. P. Parkin, C. Kaiser, A. Panchula, P. M. Rice, B. Hughes, M. Samant, and S. H. Yang, *Nat. Mater.*, **3**, 862 (2004)
- [5] S. Yuasa, T. Nagahama, A. Fukushima, Y. Suzuki, and K. Ando, *Nat. Mater.*, **3**, 868 (2004)
- [6] D. Wang, C. Nordman, J. M. Daughton, Z. Qian, and J. Fink, *IEEE Trans. Magn.*, **40**, 2269 (2004)
- [7] Y. M. Lee, J. Hayakawa, S. Ikeda, F. Matsukura, and H. Ohno, *Appl. Phys. Lett.*, **89**, 042506 (2006)
- [8] S. Yuasa, A. Fukushima, H. Kubota, Y. Suzuki, and K. Ando, *Appl. Phys. Lett.*, **89**, 042505 (2006)
- [9] K. Tsunekawa, Y. S. Choi, Y. Nagamine, David D. Djayaprawira, T. Takeuchi, and Y. Kitamoto, *Jpn. J. Appl. Phys.*, **45**, L1152 (2006)
- [10] J. H. Lee, H. D. Jeong, C. S. Yoon, C. K. Kim, B. G. Park, and T. D. Lee, *J. Appl. Phys.*, **91**, 1431 (2002)
- [11] S. S. P. Parkin and M. G. Samant, *US Patent*, No. 6326637, December 4 (2001)
- [12] R. Yamauchi, M. Miyakawa, K. Sasao, and K. Fukamichi, *J. Alloys and Compounds*, vol. **311**, pp. 124–129 (2000)
- [13] M Miyakawa, R Y Umetsu and K Fukamichi, *J. Phys.: Condens. Matter*, vol. **13**, pp.

3809–3816 (2001)

- [14] D. Josell, C. Witt, and T. P. Moffat, *Electrochem. Solid-State Lett.*, **9** C41 (2006)
- [15] M. Pakala, Y. Huai, and G. Anderson, *IEEE Trans. Magn.*, **36**, 2620 (2000)
- [16] G. Pan, S. Huo, D. J. Mapps, and W. W. Clegg, *IEEE Trans. Magn.*, **35**, 2556 (1999)
- [17] C. Tsang, M. Pinarbasi, H. Santini, E. Marinero, P. Arnett, R. Olson, R. Hsiao, M. Williams, R. Payne, R. Wang, J. Moore, B. Gurney, T. Lin, and R. Fontana, *IEEE Trans. Magn.*, **35**, 689 (1999)
- [18] Y. Hamakawa, M. Komuro, K. Watannabe, H. Hoshiya, T. Okada, K. Nakamoto, Y. Suzuki, M. Fuyama, and H. Fukui, *IEEE Trans. Magn.*, **35**, 677 (1999)
- [19] A. V. Pohm, B. A. Everitt, R. S. Beech, and J. M. Daoughton, *IEEE Trans. Magn.*, **35**, 3280 (1997)
- [20] T. Shinjo and H. Yamamoto, *J. Phys. Soc. Jpn.*, **59**, 3061 (1990)
- [21] D. E. Heim and R. E. Fontana, *IEEE Trans. Magn.*, **30**, 316 (1994)
- [22] B. A. Gurney and M. L. Williams, *IEEE Trans. Magn.*, **30**, 3801 (1994)
- [23] P. T. Berge and N. J. Oliveira, *IEEE Trans. Magn.*, **32**, 149 (1995)
- [24] M. Xiao and M. H. Kryder, Electrochemical Society meeting, Oct. 1995
- [25] K. T. M. Ranmuthu, and A. V. Pohm, *IEEE Trans. Magn.*, **29**, 2593 (1993)
- [26] K. Matsuyama, H. Asada, S. Ikeda, and K. Taniguchi, *IEEE Trans. Magn.*, **33** 3283 (1997)
- [27] Y. Zheng and J. Zhu, *IEEE Trans. Magn.*, **34**, 1063 (1998)
- [28] B. A. Everitt and A. V. Pohm, *IEEE Trans. Magn.*, **33**, 3289 (1997)
- [29] Y. Irie, H. Sakakima, M. Satomi, and Y. Kawawake, *Jpn. J. Appl. Phys.*, **34**, L415 (1995)
- [30] D. D. Tang, P. K. Wang, V. S. Speriosu, S. Le, and K. K. Kung, *IEEE Trans. Magn.*, **31**, 3206 (1995)
- [31] M. Julliere, *Phys. Lett.*, **54A**, 225 (1975)

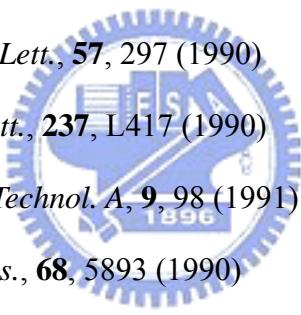
- [32] T. Miyazaki and N. Tezuka, *J. Magn. Magn. Mater.*, **139**, L231 (1995)
- [33] J. S. Moodera, L. R. Kinder, T. M. Wang, and R. Meservey, *Phys. Rev. Lett.*, **74**, 3273 (1995)
- [34] S. Maekawa and U. Gafvert, *IEEE Trans. Magn.*, **MAG-18**, 707 (1982)
- [35] S. S. P. Parkin, K. P. Roche, M. G. Samant, P. M. Rice, R. B. Beyers, R. E. Scheuerlein, E. J. O'Sullivan, S. L. Brown, J. Bucchignano, D. W. Abraham, Y. Lu, M. Rooks, P. L. Trouilloud, R. A. Wanner, and W. J. Gallagher, *J. Appl. Phys.*, **85**, 5828 (1999)
- [36] R. J. Soulen Jr., J. M. Byers, M. S. Osofsky, B. Nadgoeny, T. Ambross, S. F. Cheng, P. R. Broussard, C. T. Tanaka, J. Nowak, J. S. Moodera, A. Barry, J. M. D. Coey, *Science*, **282**, 85 (1998)
- [37] J. G. Simmon, *J. Appl. Phys.*, **35**, 2655 (1964)
- [38] R. Meservey and P. M. Tedrow, *Phys. Rep.*, **238**, 173 (1994)
- [39] J. M. de Teresa, A. Barthélémy, A. Fert, J. P. Contour, R. Lyonnet, F. Montaigne, P. Seneor, and A. Vaurès, *Phys. Rev. Lett.*, **55**, 1790 (1985)
- [40] W. H. Meiklejohn and C. P. Bean, *Phys. Rev.*, **102**, 1413 (1956)
- [41] E. Fulcomer and S. H. Charp, *J. Appl. Phys.*, **53**, 184 (1972)
- [42] T. ambrose, R. L. Sommer, and C. L. Chien, *Phys. Rev. B*, **56**, 83 (1997)
- [43] R. D. Hempstead, S. Krongelb, and D. A. Thompson, *IEEE Trans. Magn.*, **14**, 521 (1978)
- [44] H. Umbayashi and Y. Ishikawa, *J. Phys. Oc. Jpn.*, **21**, 1281 (1966)
- [45] C. Schlenker, S. S. P. Parkin, J. C. Scott, and K. Howard, *J. Magn. Magn. Mater.*, **54-57**, 801 (1986)
- [46] C. Tsang and K. Lee, *J. Appl. Phys.*, **53**, 2605 (1982)
- [47] H. Fujiwara, K. Nishioka, C. Hou, M. R. Parker, S. Gangopadhyay, and R. Metzger, *J. Appl. Phys.*, **79**, 6286 (1996)
- [48] C. Hwang and T. Nguyen, *Mat. Res. Soc. Symp. Proc.*, **232**, 211 (1991)

- [49] B. Y. Wong, C. Mitsumata, S. Prakash, D. E. Langhlin, and T. Kobayashi, *J. Appl. Phys.*, **79**, 7896 (1996)
- [50] E. Krén, E. Nagy, I. Nagy, L. Pál, and P. Szabó, *J. Phys. Chem. Solids*, **29**, 101 (1968)
- [51] J. S. Kasper and J. S. Kouvel, *J. Phys. Chem. Solids*, **11**, 231 (1959)
- [52] T. Lin, D. Mauri, N. Staud, C. Hwang, J. K. Howard, and G. Gorman, *Appl. Phys. Lett.*, **65**, 1183 (1994)
- [53] T. Yamaoka, M. Mekata, and H. Takaki, *J. Phys. Soc. Jpn.*, **31**, 301 (1971)
- [54] T. Yamaoka, M. Mekata, and H. Takaki, *J. Phys. Soc. Jpn.*, **36**, 438 (1974)
- [55] P. A. A. van der Heijden, T. F. M. M. Maas, W. J. M. De Jonge, J. C. S. Kools, F. Roozeboom, and P. J. van der Zaag, *Appl. Phys. Lett.*, **72**, 492 (1998)
- [56] H. N. Fuke, K. Saito, Y. Kamiguchi, H. Iwasaki, and M. Sahashi, *J. Appl. Phys.*, **81**, 4004 (1997)
- 
- [57] E. Krén, G. Kadar, L. Pál, J. Sólyom, P. Szabó, and T. Tarnóczi, *Phys. Rev.*, **171**, 574 (1968)
- [58] J. A. Ricodeau, *J. Phys. F*, **4**, 1285 (1974)
- [59] R. F. C. Farrow, R. F. Marks, S. Gider, A. C. Marley, and S. S. P. Parkin, *J. Appl. Phys.*, **81**, 4986 (1997)
- [60] A. Velosa, P. P. Freitas, N. J. Oliveira, J. Fernandes, M. Ferreira, *IEEE Trans. Magn.*, **34**, 2343 (1998)
- [61] H. Kishi, Y. Kitade, Y. Miyake, A. Tanaka, and K. Kobayashi, *IEEE Trans. Magn.*, **32**, 3380 (1996)
- [62] A. Tanaka, Y. Shimizu, H. Kishi, K. Nagasaka, C. Hou, and H. Fujiwara, *Mater. Res. Soc. Sump. Proc.*, **517**, 25 (1998)
- [63] H. Hoshiya, S. Soeya, Y. Hamakawa, R. Nakatani, M. Fuyama, F. Fukui, and Y. Sugita, *IEEE Trans. Magn.*, **33**, 2878 (1997)
- [64] M. Lederman, *IEEE Trans. Magn.*, **35**, 794 (1999)

- [65] S. Cardoso, R. Ferreira, P. P. Freitas, P. Wei, and C. Soares, *Appl. Phys. Lett.*, **76**, 3792 (2000)
- [66] J. Schmalhorst, H. Brückl, G. Reiss, G. Gieres, and J. Wecker, *J. Appl. Phys.*, **91**, 6617 (2002)
- [67] S. S. P. Parkin, K. –S. Moon, K. E. Peiiti, D. J. Smith, R. E. Dunin-Borkowski, and M. R. McCartney, *Appl. Phys. Lett.*, **75**, 543 (1999)
- [68] C. S. Yoo, H. D. Jeong, J. H. Lee, C. S. Yoon, C. K. Kim, J. H. Yuh, Y. Ando, H. Kubota, and T. Miyazaki, *IEEE Trans. Magn.*, **38**, 2715 (2002)
- [69] T. Ochiai, N. Tezuka, K. Inomata, S. Sugimoto, and Y. Saito, *IEEE Trans. Magn.*, **39**, 2797 (2003)
- [70] H. Boeve, F. Vanhelmont, and Peer C. Zalm, *IEEE Trans. Magn.*, **40**, 2278 (2004)
- [71] S. Y. Yoon, Y. I. Kim, D. H. Lee, Y. S. Kim, and S. J. Suh, *Phys. Stat. Sol. (a)*, **201**, 1716-1719 (2004)
- [72] Y. Fukumoto, K. Shimura, A. Kamijo, S. Tahara, and H. Yoda, *Appl. Phys. Lett.*, **84**, 233 (2004)
- 
- [73] S. Y. Yoon, D. H. Lee, D. M. Jeon, J. H. Kim, D. H. Yoon, and S. J. Suh, *J. Magn. Magn. Mater.*, **272-276**, 1879-1880 (2004)
- [74] Y. Sugita, A. Odagawa, N. Matsukawa, Y. Kawashima, M. Satomi, Y. Morinaga, H. Adachi, and M. Hiramoto, *Jpn. J. Appl. Phys.*, **41**, L1072-L1074 (2002)
- [75] N. Matsukawa, A. Odagawa, Y. Sugita, Y. Kawashima, Y. Morinaga, M. Satomi, M. Hiramoto, and J. Kuwata, *Appl. Phys. Lett.*, **81**, 4784 (2002)
- [76] Z. Zhang, S. Cardoso, P. P. Freitas, P. Wei, N. Barradas, and J. C. Soares, *Appl. Phys. Lett.*, **78**, 2911 (2001)
- [77] Z. Zhang, S. Cardoso, P. P. Freitas, X. Batlle, P. Wei, N. Barradas, and J. C. Soares, *J. Appl. Phys.*, **89**, 6665 (2001)
- [78] H. Shim, B. K. Cho, J. T. Kim, J. W. Choi, and Y. Park, *Appl. Phys. Lett.*, **83**, 3126

(2003)

- [79] S. W. Kim, J. Y. Lee, B. K. Kim, J. K. Kim, J. R. Rhee, K. A. Lee, K. H. Lee, S. S. Lee, and D. G. Hwang, *J. Magn. Magn. Mater.*, **272-276**, 1272-1273 (2004)
- [80] G. W. Anderson, Y. Huai, and M. Pakala, *J. Appl. Phys.*, **87**, 5726 (2000)
- [81] C. Tiusan, M. Hehn, K. Ounadjela, Y. Henry, J. Hommet, C. Meny, H. van den Berg, L. Baer, and R. Kinder, *J. Appl. Phys.*, **85**, 5276 (1999)
- [82] J. J. Sun, K. Shimazawa, N. Kasahara, K. Sato, S. Saruki, T. Kagami, O. Redon, S. Araki, H. Morita, and M. Matsuzaki, *Appl. Phys. Lett.*, **76**, 2424 (2000)
- [83] N. Wiese, T. Dimopoulos, M. Rührig, J. Wecker, H. Brückl and G. Reiss, *Appl. Phys. Lett.*, **85**, 2020 (2004)
- [84] Suk J. Kim, Sung J. Kim, Dong H. Im, Chang K. Kim, and Chong S. Yoo, *IEEE Trans. Magn.*, **40**, 2284 (2004)
- [85] Jin-Oh Song, Seong-Rae Lee, and Hyun-Joon Shin, *IEEE Trans. Magn.*, **41**, 2944 (2005)
- [86] K. H. Shin, W. Y. Lee, Y. J. Park, K. I. Lee, and J. G. Ha, *US Patent*, No. 2002/0185196 A1, December 12 (2002)
- [87] K. I. Lee, J. H. Lee, W. Y. Lee, K. W. Rhie, J. G. Ha, C. S. Kim, and K. H. Shin, *J. Magn. Magn. Mater.*, **239**, 120-122 (2002)
- [88] David D. Djayaprawira, K. Tsunekawa, M. Nagai, H. Maehara, S. Yamagata, N. Watanabe, S. Yuasa, Y. Suzuki, and K. Ando, *Appl. Phys. Lett.*, **86**, 092502 (2005)
- [89] WebElementsTM periodic table,
(<http://www.webelements.com/webelements/elements/text/Os/key.html>)
- [90] H. Cynn, John E. Klepeis, Choong-Shik Yoo, and David A. Young, *Phys. Rev. Lett.*, **88**, 135701 (2002)
- [91] W. P. Griffith, *The Chemistry of the Rarer Platinum Metals (Os, Ru, Ir and Rh)* (Wiley, London, 1967), pp. 8

- [92] T. R. Gull, H. Herzig, J. F. Osantowski, and A. R. Toft, *Appl. Opt.*, **24**, 2660 (1985)
- [93] R. T. Tung, *Phys. Rev. Lett.*, **52**, 461 (1984)
- [94] L. J. Chen, I. W. Wu, J. J. Chu, and C. W. Nieh, *J. Appl. Phys.*, **63**, 2778 (1988)
- [95] C. S. Petersson, J. E. E. Baglin, J. J. Dempsey, F. M. d'Heurle, and S. J. La Placa, *J. Appl. Phys.*, **53**, 4866 (1982)
- [96] Y. S. Chang and M. L. Chou, *J. Appl. Phys.*, **66**, 3011 (1989)
- [97] O. Ishii and I. Hatakeyama, *J. Appl. Phys.*, **55**, 2269 (1984)
- [98] O. Ishii, F. Yoshimura, A. Terada, and I. Sato, *J. Appl. Phys.*, **61**, 3825 (1987)
- [99] H. Kim, Y. Naito, T. Koseki, T. Ohba, T. Ohta, Y. Kojima, H. Sato, and Y. Shimogaki, *Jpn. J. Appl. Phys.*, **45**, 2497-2501 (2006)
- [100] C. A. Chang, *Phys. Rev. B*, **42**, 11946 (1990)
- [101] C. A. Chang, *Appl. Phys. Lett.*, **57**, 297 (1990)
- 
- [102] C. A. Chang, *Surf. Sci. Lett.*, **237**, L417 (1990)
- [103] C. A. Chang, *J. Vac. Sci. Technol. A*, **9**, 98 (1991)
- [104] C. A. Chang, *J. Appl. Phys.*, **68**, 5893 (1990)
- [105] C. A. Chang, *J. Vac. Sci. Technol. A*, **9**, 2118 (1991)
- [106] C. S. Liu, and L. J. Chen, *Appl. Sur. Sci.*, **92**, 84 (1996)
- [107] S. S. Iyer, M. Arienzzo, and E. de Fresart, *Appl. Phys. Lett.*, **57**, 893 (1990)
- [108] B. G. Damczyk, R. Nak, G. Auner, C. Kota, and U. Rao, *J. Appl. Phys.*, **75**, 1956 (1994)
- [109] Y. K. Kim, S. R. Lee, S. A. Song, G. S. Park, H. S. Yang, and K. I. Min, *J. Appl. Phys.*, **89**, 6907 (2001)
- [110] R. F. C. Farrow, R. F. Marks, S. Gider, A. C. Marley, S. S. P. Parkin, and D. Mauri, *J. Appl. Phys.*, **81**, 4986 (1997)
- [111] T. Pokhil, E. Linville, and S. Mao, *J. Appl. Phys.*, **89**, 6588 (2001)
- [112] S. Cardoso, R. Ferreira, P. P. Freitas, P. Wei, and J. C. Soares, *Appl. Phys. Lett.*, **76**, 3792 (2000)

- [113] T. Ochiai, N. Tezuka, K. Inomata, S. Sugimoto, and Y. Saito, *IEEE Trans. Magn.*, **39**, 2797 (2003)
- [114] Y. Fukumoto, K. Shimura, A. Kamijo, S. Tahara, and H. Yoda, *Appl. Phys. Lett.*, **84**, 233 (2004)
- [115] S. Cardoso, P. P. Freitas, C. De Jesus, P. Wei, and J. C. Soares, *Appl. Phys. Lett.*, **76**, 610 (2000)
- [116] M. Takiguchi, S. Ishii, E. Makino, and A. Okabe, *J. Appl. Phys.*, **87**, 2469 (2000)
- [117] M. Miyakawa, R. Y. Umetsu, K. Fukamichi, H. Yoshida and E. Matsubara, *J. Phys.: Condens. Matter*, **15**, 4817–4825 (2003)
- [118] U. Hartmann, G. Ertl, R. Gomer, H. Lüth, and L. Mills, Ch. 6 in *Magnetic Multilayers and Giant Magnetoresistance: Fundamentals and Industrial Applications* (Ed: U. Hartmann), Springer, NY (1999)
- [119] W. F. Egelhoff, Jr., P. J. Chen, R. D. McMichael, C. J. Powell, and R. D. Deslattes, F. G. Serpaand, and R. D. Gomez, *J. Appl. Phys.*, **89**, 5209 (2001)
- [120] L. Thomas, A. J. Kellock, and S. S. P. Parkin, *J. Appl. Phys.*, **87** 5061 (2000)
- [121] F. R. de Boer, R. Boom, W. C. M. Mattens, A. R. Miedema, A. K. Niessen, Ch. 1 and Ch. 2 in *Cohesion in Metals: Transition Metal Alloys* (Eds: F. R. de Boer, D. G. Pettifor), Elsevier, NY (1988)
- [122] K. Hoshino, R. Nakatani, H. Hoshiya, Y. Sugita, and S. Tsunashima, *Jpn. J. Appl. Phys.*, vol. **35**, pp. 607-612 (1996)
- [123] C. L. Lee, A. Devasahayam, M. Mao, J. Kools, P. Cox, K. Masaryk, D. Mahenthiran, and J. Munson, *J. Appl. Phys.*, **93**, pp. 8406-8408 (2003)
- [124] R. Nakatani, K. Hoshino, S. Noguchi, and Y. Sugita, *Jpn. J. Appl. Phys.*, vol. **33**, pp. 133-137 (1994)
- [125] M. Tsunoda, K. Imakita, M. Naka, and M. Takahashi, *J. Magn. Magn. Mater.*, vol. **304**, pp. 55-59, (2006)

- [126] Chin-An Chang, *Appl. Phys. Lett.*, **55**, pp.2754-2756 (1989)
- [127] K. A. Jackson, Kinetic processes: crystal growth, diffusion, and phase transitions in materials, Wiley-VCH, Weinheim, 2004, Chapter 4
- [128] Y. K. Kim, G. H. Park, S. R. Lee, S. H. Min, J. Y. Won, and S. A. Song, *J. Appl. Phys.*, **93**, 7924, (2003)
- [129] H. Wormeester, M. E. Kiene, E. Hüger, and E. Bauer, *Surf. Sci.*, **377-379**, pp. 988 (1997)
- [130] Chin-An Chang, *J. Vac. Sci. Technol. A* **8**, 3779 (1990)
- [131] H. Jiang, T. J. Klemmer, J. A. Barnard, and E. A. Payzant, *J. Vac. Sci. Technol A*, **16**, 3376 (1998)
- [132] Chin-An Chang, *J. Appl. Phys* **67**, 566 (1990)
- [133] H. Fornander, J. Birch, L. Hultman, L. –G. Petersson, and J. –E. Sundgren, *Appl. Phys. Lett.*, **68**, 2636 (1996)
- [134] C. H. Lai, Y. H. Wang, and R. T. Huang, *Appl. Phys. Lett.*, **85**, 2298 (2004)
- [135] Y. H. Wang, C. H. Lai, C. K. Lo, and Y. D. Yao, *J. Magn. Magn. Mater.*, **209**, 119 (2000)
- [136] S. Okada, K. Oura, T. Hanawa, and K. Satoh, *Surf. Sci.*, **97** 88 (1980)
- [137] L. Vitos, A. V. Ruban, H. L. Skriver, and J. Kollar, *Surf. Sci.*, **411** 186 (1998)
- [138] B. Q. Li, and J. –M. Zuo, *Surf. Sci.*, **520** 7 (2002)
- [139] K. Abe, Y. Harada, M. Yoshimaru, and H. Onoda, *J. Vac. Sci. Technol. B* **22** 721 (2004)
- [140] Robert C. O’Handley, *Modern Magnetic Materials: Principles and Applications* (Eds: Robert C. O’Handley), Wiley-Interscience, NY (1999)
- [141] Y. W. Huang, “Study of new type spin transistors based on silicon pn junction”, College of Engineering, National Tsing Hua University, Taiwan, R. O. C., Ph.D. Thesis, 2006
- [142] Y. H. Wang, “Exchange anisotropy in the Co/NiMn system”, College of Engineering, National Tsing Hua University, Taiwan, R. O. C., Master Degree Thesis, 1999

Publications List

1. “*Study of annealing and exchange bias effects in PtMn based magnetic tunnel Junction system*”, **T. Y. Peng**, Y. D. Yao, S. Y. Chen, Y. H. Wang, W. C. Chen, M. J. Gao, and D. D. Tang, **Phys. Stat. Sol. C** **1**, 3628 (2004)
2. “*The effect of Os interlayers on the thermal stability of magnetic CoFe/OsMn films*”, **Tai-Yen Peng**, C. K. Lo, San-Yuan. Chen, and Y. D. Yao, **J. Magn. Magn. Mater.**, **304**, e50 (2006) (SCI paper)
3. “*Effects of Os layer on magnetic properties of CoFe/IrMn*”, **Tai-Yen Peng**, C. K. Lo, S. Y. Chen, and Y. D. Yao, **J. Appl. Phys.** **99**, 08C907 (2006) (SCI paper)
4. “Effect of an Os buffer layer on structure and exchange bias properties of CoFe/IrMn fabricated on Si(100) and Si(111)”, **Tai-Yen Peng**, C. K. Lo, San-Yuan Chen, and Y. D. Yao, **IEEE Trans. Magn.**, **43**, 894 (2007) (SCI paper)
5. “*Heteroepitaxial growth of sixfold symmetric osmium on Si (111) and Si (100)*”, **Tai-Yen Peng**, C. K. Lo, Y. D. Yao, and San-Yuan Chen, **Appl. Phys. Lett.**, **90**, 121904 (2007) (SCI paper)
6. “*Impedance Behavior of Spin Valve Transistor*”, **T. Y. Peng**, L. C. Hsieh, W.C. Chien, C. K. Lo, Y. W. Huang, S. Y. Chen, and Y. D. Yao, **J. Appl. Phys.**, **99**, 08H710 (2006) (SCI paper)
7. “*Enhancement of exchange field in CoFe/IrMn by Os/Cu buffer layer*”, **Tai-Yen Peng**, C. K. Lo, S. Y. Chen, Y. D. Yao, **J. Appl. Phys.**, accepted to be published (SCI paper)
8. “*Thermal stability of textured CoFe/IrMn with osmium layers*”, **Tai-Yen Peng**, C. K. Lo, Y. D. Yao, and San-Yuan Chen, **Thin Solid Films**, revised (SCI paper)