

參考文獻

- [1] Alex, A., H. Schittenhelm, X. Fan and M. J. Lance, *Phy. Rev.*, B65 (2002) 245425, “Investigations of single-wall carbon nanotube growth by time-restricted laser vaporization”.
- [2] Anazawa, K., K. Shimotani, C. Manabe, H. Watanabe and M. Shimizu, *Appl. Phys. Lett.* 81, 4 (2002) 739-741, “High-purity carbon nanotubes synthesis method by an arc discharging in magnetic field”.
- [3] Bethune, D. S., C. H. Kiang, M. S. deVries, G. Gorman, R. Savoy, J. Vazquez and R. Beyes, *Nature*, 363 (1993) 605-607, “Cobalt-catalysed growth of carbon nanotubes with single-atomic layer walls”.
- [4] Chang, H. L., C. H. Lin and C. T. Kuo, *Thin Solid Films*, 420-421 (2002) 219-224, “Iron and cobalt silicide catalysts-assisted carbon nanostructures on the patterned Si substrates”.
- [5] Chen, C. F., C. L. Lin and C. M. Wang, *Thin Solid Films*, 444 (2003) 64-69, “Field emission properties of vertically aligned carbon nanotubes grown on bias-enhanced hydrogen plasma-pretreated Cr film”.
- [6] Cheng, H. M., *Appl. Phys. Lett.* 72, 25 (1998) 3282-3284, “Large-scale and low-cost synthesis of single-walled carbon nanotubes by the catalytic pyrolysis of hydrocarbons”.
- [7] Choi, W. B., D. S. Chung, J. H. Kang, H. Y. Kim, Y. W. Jin, I. T. Ha, Y. H. Lee, J. E. Jung, N. S. Lee, G. S. Park and J. M. Kim, *Appl. Phys. Lett.* 75, (1999) 3129-3131, “Fully sealed, high-brightness carbon-nanotube field-emission display”.
- [8] Chou, S. Y. and P. R. Krauss, *Journal of Magnetism and Magnetic*

- Materials, 155 (1996) 151-153, “Quantum magnetic disk”.
- [9] Collins, P. G., K. Bradley, M. Ishigami and Zettl A., Science 287, 10 (2000) 1801-1804, “Extreme Oxygen Sensitivity of Electronic Properties of Carbon Nanotubes”.
- [10] Cullity, B. D., “Introduction to magnetic material”, London , Addison-wesley publishing company Press, (1972) PP.522-525
- [11] Cui, S., P. Schar, C. Siegmund, D. Schneider, K. Risch, L. Spiess, H. Romanus and J. Schawohl, Carbon, 42 (2004) 931 – 939, “Investigation on preparation of multiwalled carbon nanotubes by DC arc discharge under N₂ atmosphere”.
- [12] Diandra, L., Leslie-Pelecky, Chemistry of Materials, 8(8) (1996) 1770-1783, “Magnetic Properties of Nanostructured Material”.
- [13] Dresselhaus, M. S., G. Dresselhaus and P. C. Eklund, Academic Press, (1995), “Science of Fullerenes and Carbon Nanotubes”.
- [14] Ebbesen, T. W., “Carbon Nanotubes Preparation and Properties”, CRC Press, ed. by M. Endo, (1997), P.56.
- [15] Falvo, C. H., Nature, 74 (1999) 475-476, “Rolling of carbon nanotube“.
- [16] Fujiwara, Y., H. Takegawa, H. Sato, K. Maeda, Y. Saito, T. Kobayashi and S. Shiomi, J. of Appl. Phys. Lett. 95, 11 (2004) 7118-7120, “Magnetic properties of carbon nanotubes grown on Fe catalyst layer by microwave plasma enhanced chemical vapor deposition”.
- [17] Gao, Y. and Y. Bando, Nature, 415 (2002) 599-600, “Carbon nanothermometer containing gallium”.
- [18] Grobert, N., W. K. Hsu, Y. Q. Zhu, J. P. Hare and H. W. Kroto, Appl. Phys. Lett. 75, 21 (1999) 3363-3365, “Enhanced magnetic coercivities in Fe nanowires”.
- [19] Hamada, H., S. Sawada and A. Oshiyama, Phys. Rev. Lett., 68

- (1992) 1579-1581, "New One-dimensional Conductors Graphitic Microtubules".
- [20] Harutyunyan, A. R., G. Chen and P. C. Eklund, Appl. Phys. Lett. 82, (2003) 26 4794-4796, "Self-assembled growth of single-walled carbon nanotubes by pyrolysis of metalorganic precursor".
- [21] Hsu, C. M., C. H. Lin, H. L. Chang and C. T. Kuo, Thin Solid Films, 420-421 (2002) 225 - 229, "Growth of the large areahorizontally-aligned carbon nanotubes by ECR-CVD".
- [22] <http://140.114.18.41>
- [23] <http://nano.nchc.org.tw>
- [24] <http://www.chemistry.wustl.edu/~edudev/Fullerene/introduction.html>
- [25] Iijima, S., Nature, 354 (1991) 56-58, "Helical microtubules of graphitic carbon".
- [26] Iijima, S., Mat. Sci. and Eng., B19 (1993) 172-180, "Growth of carbon nanotube,".
- [27] Iwasaki, S. and Y. Nakamura, IEEE Trans. On Magn., MAG-13(5), (1997) 1272-1277, "An analysis for the magnetization mode for high density magnetic recording".
- [28] Iwasaki, S. and K. Takemura, IEEE Trans. On Magn., MAG-11(5) (1975) 1173-1175, "An analysis for the circular mode of magnetization in short wavelength recording".
- [29] Junga, M., K. Y. Eunb, J. K. Leeb, Y. J. Baikb, K. R. Leeb and J. W. Parka, Dia. and Rel. Mat., 10 (2001) 1235-1240, "Growth of carbon nanotubes by chemical vapor deposition".
- [30] Kuo, C. T., C. H. Lin and A. Y. Lo, Dia. and Rel. Mat., 12 (2003) 799 - 805, "Feasibility studies of magnetic particle-embedded carbon nanotubes for perpendicular recording media".
- [31] Kurt, R., J.-M. Bonard and A. Karimi, Carbon , 39 (2001) 1723, "Morphology and field emission properties of nano-structured

nitrogenated carbon films produced by plasma enhanced hot filament CVD”.

- [32] Lebedkin, S., P. Schweiss, B. Renker, S. Malik, F. Hennrich, M. Neumaier, C. Stoermer and M. M. Kappes, *Carbon*, 40 (2002) 417–423, “Single-wall carbon nanotubes with diameters approaching 6 nm obtained by laser vaporization”.
- [33] Leslie, P., L. Diandra and D. Reuben, *Chem. Mater.*, 8 (1996) 1770-1783, “Magnetic properties of nanostructured materials”.
- [34] Li, J., Q. Ye, A. Cassell, H. T. Ng, R. Stevens, J. Han, M. Meyyappan, *Appl. Phys. Lett.* 82, 15 (2003) 2491-2493, “Bottom-up approach for carbon nanotube interconnects”.
- [35] Lin, C. H., H. L. Chang, C. M. Hsu, A. Y. Lo and C. T. Kuo, *Dia. and Rel. Mat.*, 12 (2003) 1851-1857, “The role of nitrogen in carbon nanotube formation”.
- [36] Lin, C. H., H. L. Chang, M. H. Tsai and C. T. Kuo, *Dia. and Rel. Mat.*, 11 (2002) 922 – 926 “Growth mechanism and properties of the large area well-aligned carbon nano-structures deposited by microwave plasma electron cyclotron resonance chemical vapor deposition”.
- [37] Nakamura, Y., *Journal of Magnetism and Magnetic Materials*, 200 (1999) 634-648, “Perpendicular magnetic recording progress and Prospects”.
- [38] Nardelli, M. B., B. I. Yakobson and J. Bernholc, *Phys. Rev. Lett.*, 81 21 (1998) 4656-4659, “Brittle and Ductile Behavior in Carbon Nanotubes”.
- [39] Overney, G., W. Zhong and D. Tomanek, *Phys. Rev. Lett.*, D 27 (1993) 93-97, “Structural rigidity and low frequency vibrational modes of long carbon tubules”.
- [40] Saito, R., M. Fujita, G. Dresselhaus and M. S. Dresselhaus, *Appl.*

- Phys. Lett., 60 (1992) 2204, “Electronic structure of chiral graphene tubules”.
- [41] Schan, J. H., C. H. Kloc and B. Battogg, Science, 293 5539 (2001) 2432-2434, ”High-Temperature Superconductivity in Lattice -Expanded C₆₀”.
- [42] Shingayaa, Y., T. Nakayamaa and M. Aonoa, Physica, B323 (2002) 153-155, “Carbon nanotube tip for scanning tunneling microscopy”.
- [43] Spindt, C. A., I. Bride, L. Humprey and E. R. Westerberg, J. Appl. Phys., 47 (1976) 5248, “Physical properties of thin-film field emission cathodes molybdenum cones”.
- [44] Sun, X., M. J. Yacaman, X. Dong and S. Jin, Mater. Sci. and Eng., A286 (2000) 157-160, “Investigations on magnetic properties and structure for carbon encapsulated nanoparticles of Fe, Co, Ni”.
- [45] Suda, Y., T. Nakazono, K. Ebihara, K. Baba and S. Aoqui, Carbon, 36 (1998) 771, ” Pulsed laser deposition of carbon nitride thin film from graphite targets”.
- [46] Sun, X., A. Gutierrez, J. J. Yacaman, X. Dong and S. Jin, Mater. Sci. and Eng., A286 (2000) 157–160, “Investigations on magnetic properties and structure for carbon encapsulated nanoparticles of Fe, Co, Ni”.
- [47] Todorovic, M., S. Schultz and J. Wong, Appl. Phys. Lett., 74 (1999) 2516-2518, “Writing and reading of single magnetic domain per bitperpendicular patterned media”.
- [48] Treacy, M., T. W. Ebbesen and J. M. Gbson, Nature, 381 (1996) 678-680, “Exceptionally high Young’s modulus observed for individual carbon nanotubes”.
- [49] White, R. L., Journal of Magnetism and Magnetic Materials, 209 (2000) 1-5 “The physical boundaries to high-density magnetic recording”.

- [50] Yakobson, B. I, C. J. Brabec and J. Bernholc, Phys. Rev. Lett., 7614 (1996) 2511-2514, “Nanomechanics of carbon tubes: instabilities beyond linear range”.
- [51] Yakobson, B. I., G. Samsonidze, Carbon, 38 11-12 (2000) 1675-1680, “Atomistic theory of mechanical relaxation in fullerene nanotubes”.
- [52] Yao, B. D. and N. J. Wang, Phys. Chem. B, 2001 105 11395-11398, “Carbon Nanotube Arrays Prepared by MWCVD”.
- [53] Zhanga, X. X., G. H. Wena, S. Huangb, L. Daib, R. Gaoc and Z. L. Wang, Journal of Magnetism and Magnetic Materials, 231 (2001) L9 – L12, “Magnetic properties of Fe nanoparticles trapped at the tips of the aligned carbon nanotubes”.
- [54] Zhog, Q., D. Innis, K. Kjoller and V. B. Elings, Surf. Sci. Lett., 290 (1993 L688-L692, “Fractured polymer/silicon fiber surface studied by tapping mode atomic force microscopy”.
- [55] 林志誠, (2002), 國立中正大學化學工程所, p.p.4-5, “利用垂直式化學氣相沉積設備量產奈米碳管”。
- [56] 金重勳總編, 磁性技術手冊, (磁性技術協會出版, 2002), p.p. 62, 64, 128。
- [57] 邱裕煌, 林鶴南, 科儀新知, 19(3), (1997), P.P.41-48。
- [58] 莊必愷, (2003), 國立中正大學化學所, “鈷與磷化鈷奈米材料的製備與磁性研究”, P. 21。
- [59] 郭正次, 朝春光 編著, “奈米結構材料科學” (全華科技圖書股份有限公司, 2004), P.P.1-9,2-4,5-34,5-37,4-6。
- [60] 溫明鏡, (2003), 國立中正大學物理所, “氧化鐵磁性奈米粒子之合成與特性研究”, P.P.10-13。
- [61] 駱安亞, (2002), 國立交通大學材料所, ”包覆磁性合金之碳奈米結構及其性質”, P.P. 45, 18, 19。
- [62] 葉林秀, (1999), 雲林科技大學電子工程與資訊工程技術研究所,

“鑄型磁光薄膜材料磁區釘扎效應最佳化研究”, P.P. 21, 24。

[63] 楊鴻昌, 科儀新知, 12(6), (1991), P.72。

