

เอกสารอ้างอิง

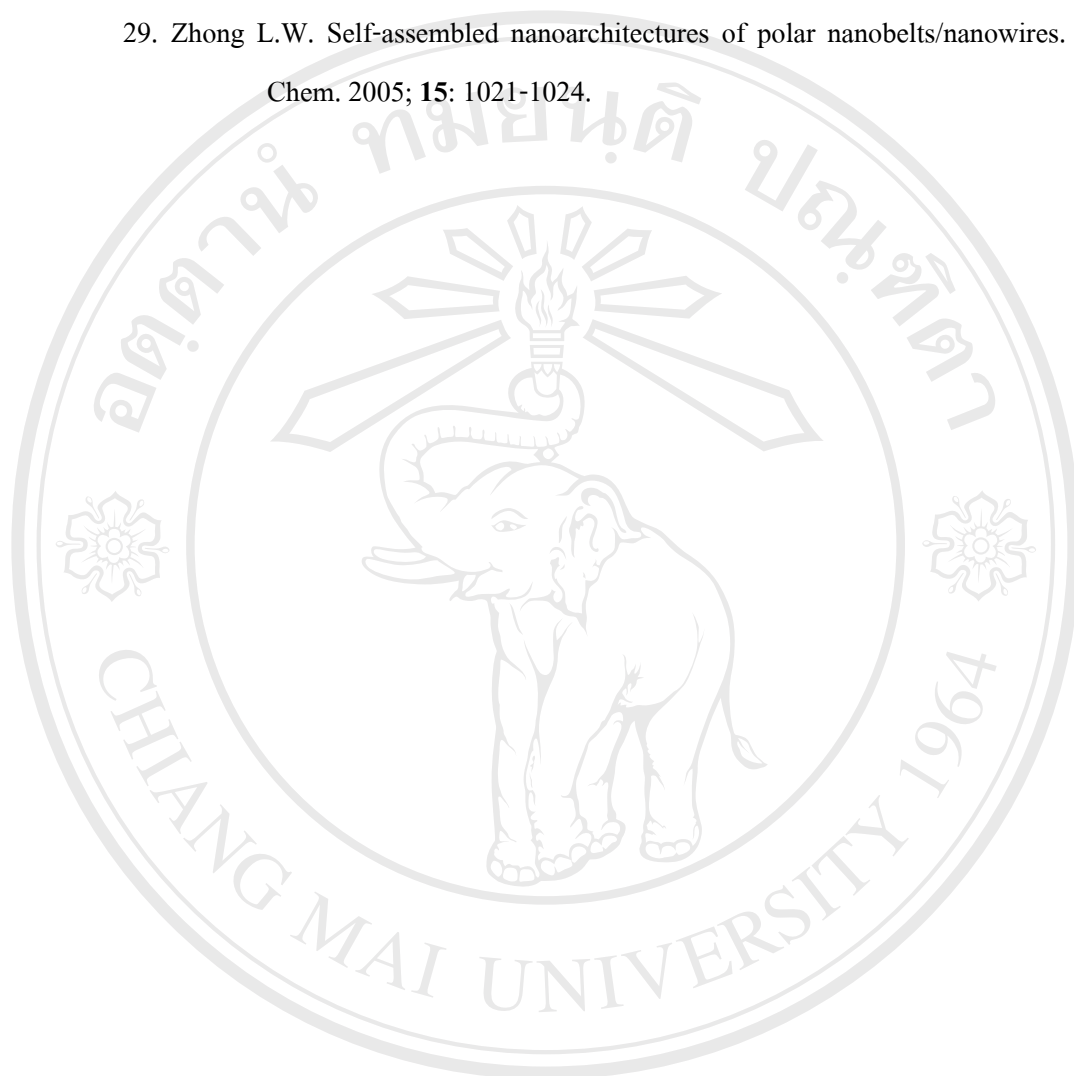
1. นานโนเทคโนโลยีกับการพัฒนาของไทย. [online] available
http://www.krungsri.com/PDF/ECONOMY/ANALYSIS/july47_02.pdf
(03 December 2005)
2. สุพัฒน์พงษ์ ดำรงรัตน์ และคณะ “การวิจัยและพัฒนากล่องฟิล์มบางด้วยวิธีสปีดเทอริง”, ภาควิชาฟิสิกส์, สถาบันเทคโนโลยีพระจอมเกล้าธนบุรี, พฤศจิกายน 2531.
3. ศูนย์นานโนเทคโนโลยีแห่งชาติ. [online] available
<http://www.nanotec.or.th/nanotec/index.php?leftmenu=nanotechnology&index=product> (27 January 2006).
4. เฉลิมศักดิ์ คุรุฑ์ “สมบัติกายภาพของฟิล์มบางทองแดงที่เตรียมได้จากวิธีการสปีดเทอริง” วิทยานิพนธ์วิทยาศาสตรมหาบัณฑิต สาขาการสอนฟิสิกส์ มหาวิทยาลัยเชียงใหม่ 2540.
5. Bogachev A., Scherbakov G., and Landman U. Shape effect on conductor quantization in three-dimensional nanowires hard versus soft potentials. Phys. Rev. 1996; **56**: 1065-1068.
6. Chang Y.S., and Ting J.M. Growth of ZnO Thin Films and Whiskers. Thin Solid Films. 2001; **398-399**: 29-34.
7. Chen Z., Shan Z., Li S., Liang C.B., and Mao S.X., “A novel and simple growth route towards ultra-fine ZnO nanowires”, J. Cryst. Growth. 2004; **265**: 482-486.
8. Chiou W.T., Wu W.Y., and Ting J.M. Growth of Single Crystal ZnO Nanowires using Sputter Deposition. Diam. Relat. Mater. 2003; **12**: 1841-1844.

9. Choopun S., Tabata H., and Kawai T. Self-assembly ZnO Nanorods by Pulsed Laser Deposition under Argon Atmosphere. *J. Cryst. Growth*. 2005; **274**: 167-172.
10. Cortie M.B., The weird world of nanoscale gold, *Gold Bulletin*., 2004; **37**: 12-19.
11. Hirate T., Sasaki S., Li W., Miyashita H., Kimpara T., and Satoh T. Effects of laser-ablated impurity on aligned ZnO nanorods grown by chemical vapor deposition. *Thin Solid Films*. 2005; in press.
12. Lee C.Y., Tseng T.Y., Li S.Y., and Lin P. Growth of Zinc Oxide Nanowires on Silicon (100), *J. Sci. Eng.* 2003; **6**: 127-132.
13. Liu F., Cao P.J., Zhang H.R., Shen C.M., Wang Z., Li J.Q., and Gao H.J., “Well-aligned zinc oxide nanorods and nanowires prepared without catalyst”, *J. Cryst. Growth*. 2005; **274**: 126-131.
14. “Nano machine”. [online] available <http://www.fantasyarts.net/nanotechnology-gallery.html> (10 February 2006).
15. Rohlif, James William , *Modern physics from a [alpha] to Z*, New York: John Wiley. 1990; 408-412.
16. Rao B.B. Zinc oxide ceramic semi-conductor gas sensor for ethanol vapour. *Mater. Chem. Phys.* 2000; **64**: 62-65.
17. S. Choopun “ZnO Wide Band Gap Semiconductor for Optoelectronic Device” Ph. D Dissertation, University of Maryland. 2001.
18. Sekar A., Kim S.H., Umar A., and Hahn Y.B., “Catalyst-free synthesis of ZnO nanowires on Si by oxidation of Zn powders” *J. Cryst. Growth*. 2005; **277**: 471-478.

19. Takayanaki. Suspended gold nanowires ballistic transport of electrons. JSAP international. 2001; **3**:4-8.
20. Wan Q., Li H., Chen Y.J., Wang T.H., He X.L., Li J.P., and Lin C.L. Fabrication and Ethanol Sensing Characteristics of ZnO Nanowire Gas Sensors. Appl. Phys. Lett. 2004; **84**: 3654-3656.
21. Wang H.T., Kang B.S., Ren F., Tien L.C., Sadik P.W., Norton D.P., Pearton S.J., and Lin J. Hydrogen-selective sensing at room temperature with ZnO nanorods. Appl. Phys. Lett. 2005; **86**: 243503.
22. Xue X.Y., Chen Y.J., Wang Y.G., and Wang T.H. Synthesis and ethanol sensing properties of ZnSnO₃ nanowires. Appl. Phys. Lett. 2005; **86**: 233101.
23. Yao B.D., Chan Y.F., and Wang N. Formation of ZnO Nanostructures by Simple Way of Thermal Evaporation. Appl. Phys. Lett. 2002; **81**: 757-759.
24. Zeghbroech (1997). "Calculation of density of states in 1, 2, 3 dimensions" [Online]. Available <http://www.colorado.edu/~bart/dos.htm> (10 March 2005).
25. Zhang B.P., Binh N.T., Segawa Y., Wakatsuki K., and Usami N. Optical Properties of ZnO Rods Formed by Metalorganic Chemical Vapor Deposition. Appl. Phys. Lett. 2003; **83**: 1635-1637.
26. Zhang J., Yang Y., Xu B., Jiang F., and Li J., "Shape-controlled synthesis of ZnO nano- and micro-structures", J. Cryst. Growth. 2005; **280**: 509-515.
27. Zheng M.J., Zhang L.D., Li G.H., and Shen W.Z. Fabrication and Optical Properties of Large-scale uniform Zinc Oxide Nanowire Arrays by One-step Electrochemical Deposition Technique. Chem. Phys. Lett. 2002; **363**: 123-128.

28. Zhong L.W. Nanostructures of zinc oxide. REVIEW FEATURE. 2004; 26-33.

29. Zhong L.W. Self-assembled nanoarchitectures of polar nanobelts/nanowires. J. Mater. Chem. 2005; **15**: 1021-1024.



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