

บรรณานุกรม

- เกื้อกุล ปิยะจอมขวัญ และสิทธิโชค วัลลภาทิตย์. 2547. โอกาสของมันสำปะหลังกับ
อุตสาหกรรม. สืบค้นจาก: http://www.cassava.org/News/Starchasso_2547.pdf
(3 กุมภาพันธ์ 2548).
- มูลนิธิสถาบันพลังงานทดแทนเอทานอล-ไบโอดีเซลแห่งประเทศไทย. 2000. เชื้อเพลิง
เอทานอล. สืบค้นจาก: <http://www.ethanol-thailand.com> (4 กุมภาพันธ์ 2547).
- เยี่ยมชมโรงงาน. 2543. โรงงานต้นแบบผลิตแอลกอฮอล์จากมันสำปะหลัง วท. วิศวกรรมสาร.
55-58.
- รัตนา จิระรัตนานนท์. 2541. กระบวนการแยกด้วยเยื่อแผ่นสังเคราะห์. ภาควิชาวิศวกรรมเคมี
มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี.
- Baker, R.W. 2004. Membrane Technology and Applications, John Wiley & Sons.
- Baelen, D.V., Bruggen, B.V., Dungen, K.V., Degreve, J., and Vandecasteele, C. 2005.
Pervaporation of water-alcohol mixtures and acetic acid-water mixtures. Chem.
Eng. Sci. 60: 1583-1590.
- Burke, J. 1984. Solubility parameter: Theory and Applications. สืบค้นจาก:
<http://palimpsest.stanford.edu/byauth/burke/solpar/solpar2.html>
(20 ธันวาคม 2548).
- Carmo, M.J. and Gubulin, J.C. 1997. Ethanol-Water Adsorption on Commercial 3 °A
Zeolites: Kinetic and Thermodynamics data. Braz. J. Chem. Eng. 14: 1-11.
- Chang, C. L. and Chang, M. S. 2004. Preparation of multi-layer silicone/PVDF
composite membranes for pervaporation of ethanol aqueous solutions. J. Membr.
Sci. 238: 117-122.

- Chang, C. L. and Chang, M. S. 2002. Preparation of composite membranes of functionalized silicone polymers and PVDF for pervaporation of ethanol-water mixture. *Desalination*. 148: 39- 42.
- Dillon, C.P. *Materials selection for the chemical process industries*, McGraw-Hill.
- Feng, X. and Huang, R.Y.M. 1996. Estimation of activation energy for permeation in pervaporation process. *J. Membr. Sci.* 118: 127-131.
- Gonzalez-Velasco, J.R., Gonzalez-Marcos, J.A. and Lopez-Dehesa, C. 2002. Pervaporation of ethanol-water mixture through poly (1-trimethylsilyl-1-propyne) (PTMSP) membranes. *Desalination*. 149: 61- 65.
- Guan, J. and Hu, X. 2003. Simulation and analysis of pressure swing adsorption: ethanol drying process by the electrical analogue. *Sep. Purif. Technol.* 31: 31-35.
- Huang, R.Y.M. and Yeom., C.K. 1990. Pervaporation separation of aqueous mixtures using crosslinked poly(vinyl alcohol). II. Permeation of ethanol-water mixtures. *J. Membr. Sci.* 51: 273-292.
- Huang, R.Y.M., Pal, R. and Moon, G.Y. 1999. Characteristics of sodium alginate membranes for the pervaporation dehydration of ethanol-water and isopropanol-water mixtures. *J. Membr. Sci.* 160: 101-113.
- Ikegami, T., Yanagishita, H., Kitamoto, D., Negishi, H., Haraya, K. and Sano, T. 2002. Concentration of fermented ethanol by pervaporation using silicalite membranes coated with silicone rubber. *Desalination*. 149: 49- 54.
- Jiraratananon, R., Chanachai, A., Huang, R.Y.M., and Uttapap, D. 2002. Pervaporation dehydration of ethanol-water mixtures with chitosan/hydroxyethylcellulose (CS/HEC) composite membranes. I Effect of operating conditions. *J. Membr. Sci.* 195: 143-151.

- Kazuhisa Miyamoto. 1997. Chapter 3 - Production of fuel alcohol from cellulosic biomass. สืบค้นจาก: <http://www.fao.org/docrep/W7241E/w7241e00.htm#Contents> (4 กุมภาพันธ์ 2547).
- Kim, J.H., Lee, K.H. and Kim, S.Y. 2000. Pervaporation separation of water from ethanol through polyimide composite membrane. *J. Membr. Sci.* 169: 81-93.
- Li, L., Xiao, Z., Tan, S., Pu, L. and Zang, Z. 2004. Composite PDMS membrane with high flux for the separation of organics from water by pervaporation. *J. Membr. Sci.* 243: 177-187.
- Li, S., Tuan, V.A., Noble, R.D. and Falconer, J.L. 2002. ZSM-11 membranes: Characterization and Pervaporation Performance. *AIChE J.* 48(2): 269-278.
- Mahesh, K.S. and Guest, A. 2004. Pervaporation: An Overview. สืบค้นจาก: <http://www.cheresources.com/pervaporation.shtml> (8 พฤศจิกายน 2547).
- Matsuda, H., Yanagishita, H., Negishi, H., Kitamoto, D., Ikegami, T., Haraya, K., Nakane, T., Idemoto, Y., Koura, N. and Sano, T. 2002. Improvement of ethanol selectivity of silicalite membrane in pervaporation by silicone rubber coating. *J. Membr. Sci.* 210: 433-437.
- Mccabe, W.L., Smith, J.C. and Harriott, P. 1993. *Unit Operation of Chemical Engineering*, McGraw-Hill.
- Mettler Toledo Titrators DL32/DL39. *Fundamentals of the Coulometric Karl Fischer Titration with Selected Application*, Mettler-Toledo, Switzerland.
- Mohammadi, T., Aroujalian, A. and Bakhshi, A. 2005. Pervaporation of dilute alcoholic mixtures using PDMS membrane. *Chem. Eng. Sci.* 60: 1875-1880.

- Molina, J.M., Vatai, G. and Bekassy-Molnar, E. 2002. Comparison of Pervaporation of different alcohols from water on CMG-OM-010 and 1060 Sulzer membrane. *Desalination*. 149: 89-94.
- Radovanovic, P., Thiel, S.W. and Hwang, S.T. 1990. Transport of Ethanol-Water Dimers in Pervaporation through a Silicone rubber membrane. *J. Membr. Sci.* 48: 55-65.
- Roberto, C. 2005. Theory of Concentration Polarization in Crossflow Filtration. สืบค้นจาก: <http://www.yale.edu/env/elimelech/CP1/sld003.htm> (4 ตุลาคม 2548).
- Rousseau, R.W. 1987. *Handbook of Separation Process technology*, John Wiley & Sons.
- Salem, M. and Ben, S. 1999. Effect of heat of adsorption on the adsorptive drying of solvents at equilibrium in a packed bed of zeolite. *Chem. Eng. J.* 74: 197-204.
- Shaban, H.I. 1997. Pervaporation separation of water from organic mixtures. *Sep. Purif. Technol.* 11: 119-126.
- Seader, J.D. and Henley, E. J. 1998. *Separation Process Principle*, John Wiley & Sons.
- Seok, D.R., Kang, S.G. and Hwang S.T. 1987. Use of pervaporation for separating azeotropic mixtures using two different hollow fiber membranes. *J. Membr. Sci.* 33: 7-81.
- Shah, D., Kissick, K., Ghorpade, A., Hannah, R., Bhattacharyya, D. 2000. Pervaporation of alcohol-water and dimethylformamide-water mixture using hydrophilic zeolite NaA membranes and experimental result. *J. Membr. Sci.* 179: 185-205.
- Soane, D.S. 1992. *Polymer Application for Biotechnology*. Prentice-Hall, USA. 85-88.

- Sonja, T., Andrea R. and Lanaya V. 1998. Pervaporation. สืบค้นจาก:
<http://ceenve.calpoly.edu/cota/enve436/projects/Pervap/pervaporation.html>
(4 กุมภาพันธ์ 2547).
- Sulzer chemtech. 2006. Pervaporation Systems. สืบค้นจาก:
http://www.sulzerchemtech.com/eprise/SulzerChemtech/Sites/products_services/pervap.html (11 มกราคม 2549).
- Tsuyumoto, M., Akita, K. and Teramoto, A. 1995. Pervaporation transport of aqueous ethanol: Dependence of permeation rate on ethanol concentration and permeate side pressure. *Desalination*. 103: 211–222.
- Vauclair, C., Tarjus, H. and Schaetzel, P. 1997. Permselective properties of PVA–PAA blended membrane used for dehydration of fuel oil by pervaporation. *J. Membr. Sci.* 125: 293–301.
- Watson, J.M. and Payne, P.A. 1990. A Study of Organic Compound Pervaporation through Silicone rubber. *J. Membr. Sci.* 49: 171–205.
- Winston Ho, W.S. and Kamalesh, K.S. 1992. *Membrane handbook*. Van Nostrand Reinhold, New York.