

บรรณานุกรม

กิ่งแก้ว คุณเขต และ ชีษณุชา บุตดาบุญ. 2556. กรมการข้าว แหล่งข้อมูล;

www.thairice.org/doc_dl/doc-zoning/kingkraw.pdf. เข้าถึงเมื่อ 27 สิงหาคม 2557.

ชั้นทอง สุนทรภา. 2547. เทคโนโลยีการแยกด้วยเมมเบรน. โรงพิมพ์แห่งจุฬาลงกรณ์มหาวิทยาลัย

จุไรวัลย์ รัตน์ะพิสิฐ และคณะ (2555), รายงานวิจัยการสกัดสารประกอบกลุ่มนิวทราซูทิกัลจากน้ำมัน

ปาล์มดิบด้วยเทคโนโลยีเยื่อแผ่น. รายงานการวิจัย. มหาวิทยาลัยเทคโนโลยีราชมงคลธัญบุรี

ผดุงขวัญ จิตโรภาส, อรุณศรี ปรีเปรม, บุญมี ศิริ, ชิตชนก คำเลิศ, บังอร ศรีพานิชกุลชัย. 2004. ปัจจัยที่มีผล

ต่อการต้านออกซิเดชันและเกมมาโอไรซานอลในเม็ดรำข้าวหอมมะลิ 105 ที่พัฒนาขึ้น. วารสารวิจัย

มช. 9, 2, 59-67.

แม่น อมรสิทธิ์ และคณะ. 2552. หลักการและเทคนิคการวิเคราะห์เชิงเครื่องมือ. กรุงเทพฯ : ชวนพิมพ์

รัตนา จิระรัตนานนท์. 2541. กระบวนการแยกด้วยเยื่อแผ่นสังเคราะห์. กรุงเทพฯ : ม.ป.พ.

ศศิธร สรรพอคำ. การสกัดเกมมา-ออไรซานอลและโปรตีนจากรำข้าวและกากรำข้าวด้วยของไหลภาวะ

กึ่งวิกฤตและเหนือวิกฤต. วิทยานิพนธ์, จุฬาลงกรณ์มหาวิทยาลัย, 2554

Gamma oryzanol. (9 มีนาคม 2556). สืบค้นจาก: http://www.oryza.co.jp/html/english/pdf/ORYZANOL_3.1M.pdf

UV-VIS spectrophotometer. สืบค้นจาก: http://www.mfu.ac.th/center/stic/index.php/chemical-analysis-instrument-menu/item_list/tag/

Ribeiro A.P.B., Bei N., Lireny A. Guaraldo G.A., Petrus J.C.C., Viotto L.A.. 2008. The optimisation of soybean oil degumming on a pilot plant scale using a ceramic membrane. Food Engineering 87, 514–521

Aroon M.A., Ismail A.F., Matsuura T., Montazer-Rahmati M.M. 2010. Performance studies of mixed matrix membranes for gas separation: a review. Separation and Purification 75(3), 229-242.

Arora S., Manjula S., Gopala Krishna A.G., Subramanian R. 2006. Membrane processing of crude palm oil. Desalination 191, 454–466

- Baker R.W. 2004. Membrane technology and applications, 2nd ed. John Wiley and Sons, Ltd., England.
- Cassano A., Adzet J., Molinari R., Buonomennac M.G., Raig J., Drioli E. 2003. Membrane treatment by nanofiltration of exhaust vegetable tannin liquors from the leather industry. *Water Research* 37(10), 2426-2434.
- Pagliero C., Mattea M., Ochoa N., Marchese J. 2007. Fouling of polymeric membranes during degumming of crude sunflower and soybean oil. *Journal of Food Engineering* 78, 194–197
- Chen C.R., Wang C.H., Wang L.Y., Hong Z.H., Chen S.H., Ho W.J. and Chang C.M.J. 2008. Supercritical carbon dioxide extraction and deacidification of rice bran oil. *Journal of Supercritical Fluids*, 45, 322-331.
- Cheng T., Lin C.T. 2004. A study on cross flow ultrafiltration with various membrane orientations. *Separation Purification Technology* 39, 13-22.
- Cheryan M. 1998. *Ultrafiltration and Microfiltration Handbook*. Technomic Publications, Chicago.
- Cheruvanky R., McPeak P., Cherukuri R.S., Lynch I. 2000. Method for treating hypercholesterolemia, hyperlipidemia and atherosclerosis. US Patent 6,126,943 B.
- Cuartas-Uribe B., Vincent-Vela M.C., Alvarez-Blanco S., Alcarina-Miranda M.I., Soriano-Costa E. 2010. Application of nanofiltration models for the prediction of lactose retention using three models of operation. *Journal of Food Engineering* 99, 373-376.
- Ebert K., Cuperus P. 1999. Solvent resistant in nano-filtration membranes in edible oil processing. *Membrane Technology* 107, 5-10.
- Fukushima M., Fujii S., Yoshimura Y., Endo T., Nakano M. 1999. Effect of rice bran on intrainestinal fermentation and cholesterol metabolism in cecectomized rats. *Nutr.Res* 19(2): 235-245.

- Garcia A., Alvarez S., Riera F., Alvarez R., Coca J. 2006. Sunflower oil miscella degumming with polyethersulfone membranes. Effect of process conditions with MWCO on fluxes and rejections. *Journal of Food Engineering* 74, 516-522.
- Geng A., Lin H.T., Tam Y. 2002. Solvent recovery from edible oil extract using nanofiltration ceramic membranes. In: *World Conference and Exhibition on Oilseed and Edible, Industrial, and Specialty Oils*. Istanbul: abstracts, 7.
- Gerhardt A, Gallot N. 1998. Full-fat rice bran and oat bran similarly reduce hypercholesterolemia in humans. *J. Nutr.* 28(5): 865-869.
- Hong S., Miller M.D., Bruening M.L., 2006. Removal of dyes, sugars, and amino acids from NaCl solutions using multilayer polyelectrolyte nanofiltration membranes. *Industrial and Engineering Chemistry Research* 45, 6284-6288.
- Hu W., Wells J.H., Shin T.S., Godber J.S. 1996. Comparison of isopropanol and hexane for extraction of vitamin E and oryzanols from stabilized rice bran. *Journal of the American Chemical Society* 73, 1653-1656.
- Hua F.L., Tsang Y.F., Wang Y.J., Chan S.Y., Chua H., Sin S.N. 2007. Performance study of ceramic microfiltration membrane for oily wastewater treatment. *Chemical Engineering Journal* 128, 169-175.
- Hwang S.T. and Kammermeyer K. 1998. Membrane in Separations. In: Cheryan M. (Ed.), *Ultrafiltration and Microfiltration Handbook*. Technomic Publications, Chicago, p.526.
- Jiao B., Cassano A., Drioli E., 2004. Recent advances on membrane processes for the concentration of fruit juices: a review. *Journal of Food Engineering* 63, 303-324.
- Juliana M.L.N.d.M, Lirenny A.G.G, José C.C.P., Luiz A.V. (2005). Degumming of vegetable oil by microporous membrane. *Food Engineering* 70(4), 473-478.
- Juliano B.O., Hicks P.A. (1996). Rice functional properties and rice food products. *Food Rev. Int.* 12, 71-103

- Jusus S.P., Grimaldi R., Hense H. 2010. Recovery of γ -oryzanol from rice bran oil byproduct using supercritical fluid extraction. *Journal of Supercritical Fluids* 55, 149-155.
- Kim I., Kim J., Lee K., Tak T. 2002. Phospholipids separation (degumming) from crude vegetable oil by polyamide ultrafiltration membrane. *Journal of Membrane Science* 205, 113-123.
- Koris A., Marki E. 2006. Ceramic ultrafiltration membranes for non-solvent vegetable oil degumming (phospholipids removal). *Desalinations* 200, 537-539.
- Koseoglu S.S., Engelgau D.E. 1990. Membrane applications and research in edible oil industry: an assessment. *Journal of American Oil Chemists' Society* 67, 239-249.
- Koseoglu S.S., Lawhon J.T., Lusas E.W. 1990. Membrane processing of crude vegetable oils: pilot plant scale removal of solvent from oil miscellas. *Journal of American Oil Chemists' Society* 67, 315-322.
- Kwiatkowski J.R., Cheryan M. 2005. Recovery of corn oil from ethanol extracts of ground corn using membrane technology. *Journal of American Oil Chemists' Society*, 82, 221-227.
- Lau W.J., Ismail A.F., Misdan N., Kassim M.A., 2012. A recent progress in this film composite membrane: a review. *Desalination* 287(15), 190-199.
- Manjula S. and Subramanian R. (2009). Simultaneous degumming, dewaxing and decolorizing crude rice bran oil using nonporous membranes. *Separation and Purification Technology* 66, 223-228.
- Marenchino R., Pagliero C., Mattea M. 2006. Vegetable oil degumming using inorganic membranes. *Desalination*, 200, 562-564.

- Moura J.M.L.N., Goncalves L.A.G., Petrus J.C.C., Viotto L.A. 2005. Degumming of vegetable oil by microporous membrane. *Journal of Food Engineering*, 70, 473-478.
- Pagliero C., Mattea M., Ochoa N., Marchese J. 2007. Fouling of polymeric membranes during degumming of crude sunflower and soybean oil. *Journal of Food Engineering*, 78, 194-197.
- Paucar L.M., Silva L.H., Sant'ana A.S., Gobclaves L.A.G. 2007. Refining of rice bran oil (*Oryza sativa* L.) to preserve γ -oryzanol, *Ciencia e Tecnologia de Alimentos*, 27, 45-53.
- Qureshi A., Samai S., Khan F. 2002. Effects of stabilized rice bran, its soluble and fiber fractions on blood glucose levels and serum lipid parameters in humans with diabetes mellitus Types I and II. *J. Nutr Biochem.*, 13, 175-187
- Raman L.P., Cheryan M., Rajagopalan N. 1996. Solvent recovery and partial deacidification of vegetable oils by membrane technology. *Fett/Lipid*, 98, 10-14.
- Ravanchi M.T., Kaghazchi T., Kargari A. 2009. Application of membrane separation processes in petrochemical industry: a review. *Desalination*, 235(1-3), 199-244.
- Ribeiro A.P.B., Moura J.M.L.N., Goncalves L.A.G., Petrus J.C.C., Viotto L.A. 2006. Solvent recovery from soybean oil/hexan miscella by polymeric membranes. *Journal of Membrane Science*, 282, 328-336.
- Rodrigo Corrêa Basso, Lireny Aparecida Guaraldo Gonçalves, Renato Grimaldi, Luiz Antonio Viotto 2009 "Degumming and production of soy lecithin, and the cleaning of a ceramic membrane used in the ultrafiltration and diafiltration of crude soybean oil". *Membrane Science* 330, 127-134

- Satyanarayana S.V., Bhattacharya P.K., De S. 2000. Flux decline during ultrafiltration of kraft black liquor using different flow modules: a comparative study. *Separation and Purification Technology*, 20, 155-167
- Sayre R.N. 1998. Rice bran as a source of edible oil and higher value chemicals. Western regional research center, ARS, USDA.
- Scott K., 2003. *Handbook of Industrial Membrane*. Elsevier, Oxford.
- Seetharamaiah S., Krishnakantha P., Chandrasekhara N. 1990. Influence of oryzanol on platelet aggregation in rats. *J. Nutr. Sci. Vitaminol*, 36(3), 291-297.
- Selehi F. 2014. Current and future applications for nanofiltration technology in the food processing. *Food and Bioproducts Processing*, 92, 161-177.
- Sereewatthanawut I., Baptista I.I.R., Boam A.T., Hodgson A., Livingston A.G.. 2011. Nanofiltration process for the nutritional enrichment and refining of rice bran oil. *Journal of Food Engineering* 102, 16–24
- Subrahmanyam C.V., Rao M.V., Balasubrahmanyam V., Bhowmick D.N. 2006. Membrane degumming of crude rice bran oil; pilot plant study. *European Journal Lipid Science technology* 108, 746-752.
- Subramanian R., Ichikawa S., Nakajima M., Kimura T., Maekawa T. 2001. Characterization of phospholipid reverse micelles in relation to membrane processing of vegetable oils. *European Journal Lipid Science Technology* 103, 93-97.
- Lilitchan S., Tangprawwat C., Aryasuk K., Krisnangkura S., Chokmoh S., Krisnangkura K. 2008. Partial extraction method for the rapid analysis of total lipids and α -oryzanol contents in rice bran. *Food Chemistry* 106, 752–759
- Tomita K., Machmudah S., Wahyudiono, Fukuzato R., Kanda H., Quitain A.T., Sasaki M., Goto M. 2014. Extraction of rice bran oil by supercritical carbon dioxide and solubility consideration. *Separation and Purification Technology*, 125, 319-325.

- Tres M.V., Mohr S., Corazza M.L., Luccio M.D., Oliveira J.V. 2009. Separation of n-butane from soybean oil mixtures using membrane processes. *Membrane Science* 333, 141–146
- Tsui E.M., Cheryan M. 2004. Characteristics of nanofiltration membranes in aqueous ethanol. *Journal of Membrane Science* 237, 61-69.
- Wu J.C.S., Lee E.H. 1999. Ultrafiltration of soybean oil/hexane extract by porous ceramic membranes. *Journal of Membrane Science* 154, 251-255.
- Ying Kong, Deqing Shi, Hongwei Yu, Yunfang Wang, Jinrong Yang, Yuanyuan Zhang. 2006 Separation performance of polyimide nanofiltration membranes for solvent recovery from dewaxed lube oil filtrates. *Desalination* 191 254–261
- Zullaikah S., Melwita E., Ju Y.H. 2009. Isolation of oryzanol from crude rice bran oil. *Bioresource Technology* 100, 299–302