

REFERENCES

- Ahmad, J., Mir, R.S., Kohli, K., and Amin, S. (2014) Effect of oil and co-surfactant on the formation of Solutol HS 15 based colloidal drug carrier by Box–Behnken statistical design. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 453, 68-77.
- Ahmad, J., Kohli, K., Mir, S.R., and Amin, S. (2012) Self-emulsifying nano carriers for Improved oral bioavailability of lipophilic drugs, Reviews in Advanced Sciences and Engineering, 1(2), 134–147.
- Anisa, L. and Nour, A.H. (2010) Affect of viscosity and droplet diameter on water-in-oil (w/o) emulsions: An experimental study. World Academy of Science, Engineering and Technology, 4(2), 595-598.
- Anton, N. and Vandamme, T.F. (2009) The universality of low-energy nano-emulsification. International Journal of Pharmaceutics, 377(1–2), 142–147.
- Attaphong, C., Do, L., and Sabatini, A.D. (2012) Vegetable oil-based microemulsions using carboxylate-based extended surfactants and their potential as an alternative renewable biofuel. Fuel, 94, 606-613.
- Aubrun, S.O., Simonnet, T.J, and Alloret, L.F. (2004) Nanoemulsion: a new vehicle for skincare products. Advances in Colloid and Interface Science. 108 –109, 145–149.
- Azeem, A., Rizwan, M., Ahmad, J.F., Iqbal, Z., Khar, K.R., Aqil, M., and Talegaonkar, S. (2009) Nanoemulsion Components Screening and Selection: a Technical Note. American Association of Pharmaceutical Scientists, 10(1).
- Chanamai, R., Horn, G., and McClements, J.D. (2002) Influence of oil polarity on droplet growth in oil-in-water emulsions stabilized by a weakly adsorbing biopolymer or a nonionic surfactant. Journal of Colloid and Interface Science, 247, 167–176.
- Fernando, S. and Hanna, M. (2005) Phase behavior of the ethanol–biodiesel–diesel Microemulsion system, American Society of Agricultural and Biological Engineers, 48(3), 903–908.

- Gasic, S., Jovanovic, B., and Jovanovic, S. (2002) The stability of emulsions in the presence of additives. Journal of the Serbian Chemical Society, 67(1), 31–39.
- Herron, J.A. (2010, November) Pigs as dermatologic models of human skin disease. Paper presented at the ACVP/ASVCP Concurrent Annual Meetings, International Veterinary Information Service, California, USA.
- Hiuberts, P.D.T. and Shah, D.O. (2012) Evidence for synergism of nonionic surfactant mixtures: enhancement of solubilization in water-in-oil microemulsions. Langmuir, 13, 5762-5765.
- Israelachvili, J.N., Mitchell, D.J., and Ninham, B.W. (1976) Theory of self-assembly of hydrocarbon amphiphiles into micelles and bilayers, Journal of the Chemical Society, Faraday Transactions, 272, 1525-1567.
- Kaufman, R. “Nanosphere delivery systems.” Life Enhancement, Aug 2013. 11 March 2015 <<http://www.life-enhancement.com/magazine/article/2910-nanosphere-delivery-systems>>.
- Kommuru, T.R., Gurley, B., Khan, M.A., and Reddy, I.K. (2001) Self-emulsifying drug delivery systems (SEDDS) of coenzyme Q10: formulation development and assessment, International Journal of Pharmaceutics, 212, 233–246.
- Mayer, S., Weiss, J., and McClements J.D. (2013) Behavior of vitamin E acetate delivery systems under simulated gastrointestinal (GIT) conditions: lipid digestion and bio accessibility of low-energy nanoemulsions. Journal of Colloid Science, 404, 215-222.
- McClements, D.J. (2011) Edible nanoemulsions: Fabrication, properties, and functional performance. Soft Matter, 7(6), 2297–2316.
- McClements, D.J. and Rao, J. (2011) Food-grade nanoemulsions: Formulation, fabrication, properties, performance, biological fate, and potential toxicity. Critical Reviews in Food Science and Nutrition, 51(4), 285–330.
- Moghimpour, E., Salimi, A., and Leis, F. (2012) Preparation and evaluation of tretinoin microemulsion based on pseudo-ternary phase diagram. Advanced Pharmaceutical Bulletin, 2(2), 141-147.
- Nguyen, T., Abraham, J., Ramallo, M., Wagner, D., and McLennan J. (2012) Formulation of canola-diesel microemulsion fuels and their selective diesel

- engine performance. Journal of the American Oil Chemists' Society, 89, 1905-1912.
- Rao, J. and McClements, D.J. (2011) Formation of flavor oil microemulsions, nanoemulsions and emulsions: influence of composition and preparation method. Journal of Agriculture and Food Chemistry, 59(9), 5026-5035.
- Razdi, W. (2012). Characterization and modification of castor oil extracted from the newly malaysian produced castor beans, B.Eng. Thesis, Faculty of Chemical Engineering and Natural Resources, Malaysia Pahang University, Malaysia.
- Saberi A.H., Fangb, Y., and McClements D.J. (2013) Fabrication of vitamin E-enriched nanoemulsions by spontaneous emulsification: Effect of propylene glycol and ethanol on formation, stability, and properties. Food Research International, 54, 812–820.
- Sagitani, H. and Friberg, S. (1980) Microemulsion systems with a non-ionic cosurfactant, Journal of Dispersion Science and Technology, 1, 151–164.
- Sharma, S. and Sarangdevot, K. (2012). Nanoemulsions for cosmetics. International Journal of Advanced Research in Pharmaceutical and Bio Sciences, 2(3), 408-415.
- Syed K.H. and Peh, K.K. (2014) Identification of phases of various oil, surfactant/cosurfactant and water system by ternary phase diagram. Acta-Poloniae Pharmaceutica Drug Research, 71(2), 301-309.
- Thakur, A., Walia, M.K., and Kumar, H. (2013) Nanoemulsion in enhancement of bioavailability of poorly soluble drugs: A review. Pharmacophore, 4 (1), 15-25.
- Wang, A., Jiang, D., and Yan, Z. (2014) Phase behavior of vegetable oil-based ionic liquid microemulsions. Journal of Chemical Engineering Data, 59, 666–671.
- Wangkuntham, N. and Tumsing, T. (2011) Development of self-emulsifying coconut oil as make up remover. B.P. Thesis, Faculty of Pharmacy, Mahidol University, Bangkok, Thailand.
- Weast, R.C. (1985) CRC Handbook of Chemistry and Physics. 66th ed. Boca Raton, Florida: CRC Press.

- Wennerström, H., Balogh, J., and Olsson, U. (2006) Interfacial tensions in microemulsions, Colloids and Surfaces A: Physiochemical and Engineering Aspects, 291, 69–77.
- Wooster, T.J., Golding, M., and Sanguansri, P. (2008) Impact of oil type on nanoemulsion formation and Ostwald ripening stability. Langmuir, 24(22), 12758–12765.
- Yaghmur, A., Aserin, A., and Garti, N. (2002) Phase behavior of microemulsions based on food-grade nonionic surfactant: effect of polyols and short-chain alcohols. Colloids and Surfaces A: Physiochemical and Engineering Aspects, 209, 71-81.
- Yang, Y. and McClements, J.D. (2013) Encapsulation of vitamin E in edible emulsions fabricated using a natural surfactant. Food Hydrocolloids, 30, 712-720.
- Zhu, R., Liang, J., Yuan, Z.X., Wang, L.L., Leng, J.L., Li, H., Huang, J.H., Wang, L.X., Li, X.S., and Zeng, M.G. (2014) The formation of rhamnolipid-based water-containing castor oil/diesel microemulsions and their potentiality as green fuels. Energy & Fuels, 28, 5864–5871.

CURRICULUM VITAE

Name : Ms. Nutthira Pakkang

Date of Birth : September 06, 1990

Nationality : Thai

University Education :

2009–2013 Bachelor Degree of Chemical Engineering, Faculty of Engineering, Mahidol University, Thailand

Proceedings:

1. Pakkang, N.; Charoensaeng, A.; and Nithitanakul, M. (2015, June 21-26) Development of microemulsion of castor/sunflower oil as makeup remover from pseudo-ternary phase diagram. Proceedings of the 15th Congress of the European Polymer Federation. Dresden, Germany.

Presentations:

1. Pakkang, N.; Charoensaeng, A.; and Nithitanakul, M. (2015, April 21) Development of microemulsion of castor/sunflower oil as makeup remover from pseudo-ternary phase diagram. Paper presented at The 6th Research Symposium on Petrochemical and Materials Technology and the 21th PPC Symposium on Petroleum, Petrochemicals, and Polymers. Bangkok, Thailand (Poster presentation).