

DAFTAR PUSTAKA

- Arab-Tehrany, E. 2012. Beneficial effect and oxidative stability of omega 3 long chain polyunsaturated fatty acid. *Trend in food sci and technol.* 25(1): 24 – 33.
- Abdullah, N, and N.L. Chin. 2010. Simplex-centroid mixture formulation for optimized composting of kitchen waste. *Bioresource Technology.* 101:8205 – 8210
- Abou Zeid, M.B. 2006. Sensory Physico-chemical and microbial characteristics of new light mayonnaise formulation. M.Sc. Thesis, Faculty of Agriculture. Cairo University Egypt.
- Abu Ghoush, M., M. Samhour, and T. Herald. 2008. Formulation and fuzzy modeling of emulsion stability and viscosity of a gum-protein emulsifier in a model mayonnaise system. *Journal off Food Engineering.* 84:348 – 357
- Abu Salem, M. Ferial, and Azza Abou – Arab. 2008. Chemical microbiological and sensory evaluation of mayonnaise prepared from ostrich eggs. *Grasas Aceites.* 59 (4): 352 – 360.
- Akesowan. 2010. Viscosity and gel formation of a konjac flour from *Amorphophallus oncophyllus*. Faculty of Science, University of the Thai Chamber of Commerce Bangkok, Thailand.
- Akoh, C.C, and D.B. Min. 2002. Food lipids. Chemistry Nutrition, and Biotechnology, Second Edition. Taylor and Francis.
- Al sayed, H.M.A., N.M.H. Rasmy, I.R.S. Rizk, and E.E.I. Yousef. 2012. Functional properties of some fat replacers and their uses in preparation of fat reduced-fat mayonnaise. *World Journal of Dairy and Food Sci* 7 (1): 109-119.
- American Oil Chemist's Society. 1998. Official Methods and Recommended Practices of The AOCS. S. Champaign, Il. New York.
- Anonymous, 2004. Nutrition Facts and Food Composition Analysis for Subway Condiment Mayonnaise. <http://www.nutritiondata.com/analysis>. Diakses 10 Januari 2014.
- AOAC. 2000. Official Methods of Analysis of the Association of Official Analytical Chemists 16th ed. Assoc. off. Anal. Chem.. Washington, D.C.
- AOAC, 2005. Official Methods of Analysis of the Association of Official Analytical Chemists 20th ed. Assoc. off. Anal. Chem. Washington, D.C.
- Arifin, M.A. 2001. Pengeringan kripik umbi iles-iles secara mekanik untuk meningkatkan mutu kripik iles-iles. Tesis. Teknologi Pasca Panen. PPS. IPB. Bogor.

- Aslanza, M., M. Mizani, A. Gerami, and M. Alimi. 2012. Study the production process of a dietary fiber from wheat bran and its functionality as a fat replacer in mayonnaise. Science and Research Branch. Tehran.
- Assadi, D.J. 2003. Religions Influence costumers behavior. Confronting Religious Rules and Marketing Concepts. Group Esc Dijon Bourgogne 5 : 2 – 13.
- Belitz, H.D., W. Grosch, and P. Schieberle. 2004. Food Chem. 3 Edn. Springer, Germany.
- Bennion, M. 1980. The Science of Food. John Wiley and Sons. Inc. Singapore.
- Beristain, C.,F. Cruz, C. Lobato- Calleros R. Pedroza, M. Rodriques, and Verde.2006. Application of soluble dietary fibers in beverages. Revista Mexicana de Ingeniera Quimica, 5: 81-95.
- Beuchat, L.R., J. H. Ryu, B.B. Adler, and M.D. Harrison. 2006. Death of *Salmonella*, *Eschericia coli*, and *Listeria monocytogenes* in shelf stable dairy based pourable salad dressing. J. Food Protect. 69: 801 – 814.
- Biliaderis, C.G., M.S. Izydorczyk. 2006. Functional food carbohydrates. CRC Press. 132- 139.
- Binsted, R., J.D. Davey and J.C. Dakin. 1991. Pickle and Sauce Making. 3rd edition. Food Trade Press Ltd., London.
- Bouyer, E., G. Mekhloufia, V. Rosilio, J.L. Grossiorda, and F. Agnely. 2012. Proteins, polysaccharides, and their complexes used as stabilizers for emulsions: Alternatives to synthetic surfactants in the pharmaceutical field. International Journal of Pharmaceutics. 436: 359 - 378.
- Carpenter, R.P., D. H. Lyon, and T.A. Hasdell. 2000. Guidelines for Sensory Analysis in Food Product Development and Quality Control. 2nd Edition. An Aspen Publication Gaithersburg. Maryland.
- Cheung. I., F. Gomes, R. Ramsden, and D.C. Roberts. 2000. Evaluation of fat replacer avicel, N lite S and simplese in mayonnaise. Int. J. Cons Studies. 26: 27 – 33.
- Chiple, J. R. 2005. Sodium benzoate and benzoid acid. Antimicrobials in Foods. CRC Press, Boca Raton. 11 – 48.
- Choe, E., and D.B. Min. 2006. Mechanisms and factors for edible oil oxidation. Compr. Rev. Food Sci. Food Safety 5: 169 – 186.
- Choonhahirun, A. 2008. Influence of added water and konjac flour as fat replacer on some quality characteristics of celery mayonnaise. J. Technol. 11(3): 154 – 158.
- Crapiste, G.H., M.I.V. Bredon, and A.A. Carelli. 1999. Oxidation of sunflower oil during storage. J. Am. Oil Chem. Soc.76: 1437 – 1443.

- Corrant. 2004. Composition solubility and emulsifying properties of granules egg yolk. *J. Food Sci.* 62 (3): 484 – 487.
- Coupland, J.N., and D.J. Mc Clements. 1996. Lipid oxidation in food emulsion. *Trends in Food sci and Technol.* 7: 944 – 948.
- Dalgleish, D.G. 2006. Food emulsion. Their structures and structure forming properties. *Food Hydrocoll.* 20: 415 – 422
- Dalgleish, D.G., P.A. Spagnuolo, and H.D. Goff. 2004. A possible structure of the casein micelle based on high resolution field emission scanning electron microscopy. *Int. Dairy J.* 14: 1025 – 1031.
- De Man. 1997. *Principles of Chemistry.* The Avi Publishing Company. Westport. Connecticut.
- Depree, J.A., and G.P. Savage. 2001. Physical and flavour stability of mayonnaise. *J. Trends in Food Sci and Tech.* 12 (5/6): 157 – 163.
- De Roos, K.B. 2000. Physicochemical models of flavor release from foods. *Flavour research. Amer. J. Chem. Soc. Washington.* pp 126 – 141.
- Dickinson, E. 2003. Hydrocolloids at interfaces and the influence on the properties of dispersed systems. *Food hydrocolloids* 17(1): 25-39.
- Dickinson, E. 2008. Hydrocolloids as emulsifiers and emulsion stabilizers. *Food Hydrocoll.* 23(6): 1473 – 1482.
- Dickinson, E., and E. L. Parkinson. 2004. Heat induced aggregation of milk protein stabilized emulsion : Sensitivity to processing and composition. *Int Dairy J.* 14: 635 – 645.
- Di Mattia, C.D., G. Sacchetti, and P. Pittia. 2011. Interfacial behavior and antioxidant efficiency of olive phenolic o/w olive oil emulsions as affected by surface active agent tipe. *J. Food Biophys.* 6 (2): 259 – 302.
- Doores, S. 2005. Organic acid. In Davidson P. M., Sofos. J. N., and Branen, A.L., *Antimicrobials Food.* CRC Press, Boca Raton, 91 – 142.
- Doraiswamy, D. 2002. *The origin of rheology : a short historical excursion.* Wilmington.
- Druaux. C, and A. Voilley. 1997. Effect of food composition and microstructure on volatile flavour release. *J. Trends in Food Sci & Technol.* 8 (11): 164 – 368.
- Dudina Z.A, I.A. Ruzins, N.A. Kalasheva, A.I. Askinazi, Y.M. Kulikov, and L.I. Tarasova. 1992. Manufacture of mayonnaise. *J. Food Sci and Tech* 25 (5)
- El-Bostany, A. N., M. G. Ahmed, and A. S. Amany. 2011. Development of light mayonnaise formula using carbohydrate-based fat replacement. *Aust. J. Basic Appl. Sci.* 5: 673 – 682.

- El-Razik, M.M., and A.G. Mohamed. 2013. Utilization of acid casein curd enriched with *chlorella vulgaris* biomass as substitute of egg in mayonnaise production. *J.world.Appl.Sci* 26(7): 917 – 925.
- Fang, Y., and D.G. Dalgeish. 1996. Comparison the effects of three different phosphatidyl cholines on casein stabilized oil in water emulsion. *J.Am.Oil Chem. Soc.* 73: 437 – 442.
- FAO / WHO, 2001, Codex standard for mayonnaise. <http://www.codexalimentarius.net>. Akses 10-8-2013.
- Farnforth, E. R. 2006. Kefir a complex probiotic. *Food Science and Technology, Functional food.* 2 (1): 1 – 7.
- Farvin, K.H., C.P. Baron, N.S. Nielsen, and C. Jacobsen. 2010. Antioxidant activity of yoghurt peptides. *Food Chem*, 123: 1090-1097.
- Fennema, O.R., Karen, and Lund. 1996. *Principles of Food Science*. Marcel Dekker Inc. New York.
- Frankel, E. N. 2005. *Lipid oxidation*, Bridgewater, Oily Press.
- Foegeding, E.A., J. Brown, M.A. Drake, and C.R. Dauber. 2003. Sensory and mechanical aspect of texture. *Int Dairy J.* 13: 585 – 591.
- Ford, L.D., R.P. Borwanker, D. Pechak, and B. Schimmer. 2004. *Dressing and Sauces*. Fourth Edition Revised. Marcell Dekker Inc. new York. Pp: 361 – 412.
- Fox, P.F. 2003. The major constituents of milk. *Dairy Processing : Improving quality*, G. Smith, Edition., Woodhead Publishing Limited Cambridge, pp 5-41.
- Friberg, S.E. 1997. Surface Force in Emulsions in S. Friberg(ed), *Food emulsions*, 3rd edition, Marcell Dekker Inc.
- Furukawa, N.A., T. Matsuoka, Takashi, and Y. Yamanka. 2007. Effect of orally administered yogurt and kefir on tumor growth mice, *J. Japan. Soc. Nutr. Food Sci.* 43: 450 – 453.
- Gallaher, C., J. Munion, R. Hesslink, J. Wise, and D. Gallaher. 2000. Cholesterol reduction by glucomanan and chitosan is mediated by changes in cholesterol absorption and bile acid and fat excretion in rats. *J. Nutrien Metabol*, 130: 2753 – 2759.
- Gaonkar, G., R. Koka, K. Chen, and B. Campbell. 2010. Emulsifying functionality of enzyme modified milk proteins on o/w and mayonnaise like emulsions. *Afr. J.of Food Sci*, 4(1): 16 – 25.

- Garcia, K.M. 2006. Quality characterization of cholesterol-free mayonnaise type spreads containing rice bran oil. Thesis. B.S. Chemical Engineering. Louisiana State University, Louisiana.
- Garcia. Y., A.R. Batista, J.L. Rodriguez, R. Lima, I. Rodriguez, and Y. Yanez. 2003. Studies on keeping quality of a mayonnaise type dressing made with powdered soy milk. *Alimentaria* : 329 : 73 – 76.
- Gavahian. M., A. Farahnaky, M. Majzooobi, K. Javidnia, M.J. Sakarkhiz, and G. Mesbahi. 2011. Ohmic-assisted hydrodistillation of essential oils from *Zataria multiflora bois* (*Shirazy thyme*). *International Journal of Food Sci and Tech*, 46: 2619 – 2627.
- Goei. 2008. Interactions between flavour compounds and food ingredients and their influence on flavour perception. *Food Rev Intern*. 18 (1): 49 – 70.
- Goycoolea, F., and A. Cardenas. 2003. Pectins from *opuntia spp* : Short Review *JPACD*. 5: 17 – 28.
- Gopala Krishna, A.G., K.V. Raghavendra, S. Khatoon, P.A. Prashanth, and A. Pragasam. 2003. Unsaponifiable matter and oxidative stability of commercially produced Indian Rice Bran Oils. *J. Food Lipids*. 10 (4): 329 – 344.
- Guilmineau, F., and U. Kulozik. 2007. Influence of a thermal treatment on the functionality of hen's egg yolk in mayonnaise. *Journal of Food Engineering*. 78:648 – 654
- Harsojuwono, B.A. 2005. Laporan Survei kawasan Porang di Jawa Timur. PT. Fim. Jakarta.
- Harrison L.J., and F.E. Cunningham. 1985. Factors influencing the quality of mayonnaise. *J.Food Quality*. 8: 1 – 20.
- Hashemi, M.B., M. Niakousari, M.J. Saharkhiz, and M.H. Eskandari. 2012. Effect of *Satureja khuzestanica* essential oil on oxidative stability of sunflower oil during accelerated storage. *Natural Product Research* 26(15): 1458 – 1463.
- Hayati, I., Y. Man, C. Tan, and L. Aini. 2007. *Droplet* characterization and stability of soybean oil/ palm kernel olein o/w emulsions with the presence of selected polysaccharides. *Food Hydrocoll* 23: 233 – 243.
- Hemar, Y., M. Tamehana, P.A. Munro, and H. Singh. 2001. Influence of xanthan gum on the formation and stability of sodium caseinate oil in water emulsions. *Food Hydrocoll* 15 (4):513-519.
- Herald, T.J., Abu goush, and F. aramoun. 2009. Physical and sensory properties of egg yolk and egg yolk substitute in a model mayonnaise system. *J. Texture Stud*. 40: 692-709.

- Herh, P.K.W., S.M. Colo, N. Roye, and K. Hedman. 2000. Rheology of Food. New Techniques, Capabilities, and Instruments.
- Hernandez- Ledesma, B. Amigo, L. Recio, and B. Bartolome. 2007. Ace inhibitory and radical scavenging activity of peptides derived from lactoglobulin interactions with ascorbic acid. J. Agric. Food Chem. 55: 3392 – 3397.
- Huang, X., Y. Kakuda, and W. Cui. 2001. Hydrocolloids in emulsions: Particle size distribution and interfacial activity. Food Hydrocoll 15 : 533 -542.
- Hristova, Irigoyen. A., I. Arana, M. Casteilla, P. Todurre, and F.C. Ibanez. 2006. Microbiological, physicochemical and sensory characteristics of kefir during storage. Food chemistry 90: 613-620.
- Hui Y.H. 1992. Encyclopedia of Food Science and Technology. Vol 4. New York. John Wiley and Sons, Inc.
- Hui, R., Qi- he, C. Liang, F. Qiong, and X. H. Guo-qing. 2009. Preparation and properties of octenyl succinic anhydride modified potato starch. Journal of Agric and Food Chem, 114(1): 81 – 86.
- Jacobsen. 2010. Optimation of oxidation stability of omega 3 enriched food. In H. Brevik (Ed). Long chain omega 3 especially oils. The oily press. 197 – 214.
- Jimenez and F. Colmenero. 2010. Technologies for developing low fat meat products trends in frankfurter. J. Food Sci. Technol. 7: 41 – 48.
- Katsuraya, K., K. Okuyama, K. Hatanaka, K. Oshima, T. Sato, and K. Matsuzaki. 2003. Constitution of konjac glucomanan. Chemical analysis and NMR Spectroscopy Carbohydrate Polymers. 53: 183 – 189.
- Karaman, S., M.T. Yilmaz, and A. Kayacier. 2011. Simplex lattice mixture design approach on the rheological behavior of glucomanan based salep-honey drink mixtures; an optimization study based on the sensory properties. J.Food Hydrocol. 25: 1319 – 1326.
- Karas, R., M. Skuarc, and B. Zlender. 2000. Sensory quality of standart and light mayonnaise during storage. J. Food Technol and Biotech. 40: 119 – 127.
- Kartika, B., P. Hastuti, dan W. Supartono. 1988. Pedoman Uji Inderawi Bahan Pangan. PAU Pangan dan Gizi Universitas Gadjah Mada, Yogyakarta.
- Ketaren, S. 1986. Pengantar Teknologi Minyak dan Lemak Pangan. Penerbit Universitas Indonesia. Jakarta.
- Kishk, Y.F.M., and H.E. Elsheshetawy. 2010. Optimization of ginger (*Zingiber officinale*) phenolic extraction conditions and its antioxidant and radical scavenging activities using response surface methodology. World. J. Dairy Food.Sci. 5: 188 – 196.

- Kiokias, S., C. Dimakou, and V. Oreopoulou. 2007. Effect of heat treatment and *droplet* size on the oxidative stability of whey protein emulsion. *Food chem*, 105 (1) :94-100.
- Kochhar, S.P., and J.B. Rossell. 1990. Detection estimation and evaluation of antioxidants in food system. In Hudson, B.J.F (Ed) *Food antioxidants*. Elsevier Science publishers Ltd., Barking, England, pp.19 – 64.
- Krstonosic, V., L. Dokic, and T. Dapcevic. 2009. Effect of xanthan gum on physicochemical properties and stability of corn oil in water emulsions stabilized by polyoxyethylene sorbitan monooleate. *Food hydrocoll* 23 (8): 2212-2218.
- Krog, N.J., and F. V. Sparso. 2004. *Food Emulsifier, Their Chemical and Physical Properties*, In *Food Emulsions*. Friberg, S., Larsson, K., and Sjoblom, J (eds) Marcell Dekker Inc, New York., USA.
- Laca, A., M.C. Sanenz, Paredes, and B. Diaz. 2010. Rheological properties stability and sensory evaluation of low-cholesterol mayonnaise prepared using egg yolk granules as emulsifying agent. *J. Food Eng.* 97: 243 – 252.
- Lambert, R.J., and M. Stratford. 1999. Weak acid preservatives: modelling microbial inhibition and response. *J. of Appl. Microbiol.* 86: 157 – 164.
- Langton, M., E. Jordansson, A. Altskar, C. Sorensen, and A. M Hermanson. 1999. Microstructure and image analysis of mayonnaise. *J. Food Hydrocol.* 13: 113 – 125.
- Lawless, H. T., and H. Heymann. 1998. *Sensory Evaluation of Food: Principles and Practices*. New York. Chapman Hall International Thomson Pub. 608.
- Lethuaut, L., F. Metro, and C. Genot. 2002. Effect of *droplet* size on lipid oxidation rates of oil in water emulsions stabilized by protein. *Journal of American Oil Chemist Society*, 79(5):425-430.
- Lim, K.S., and M. Barigou. 2004. X-Ray Microstructured of food products. *J. Food Res. Intern.* 37: 1001 – 1012.
- Liu, X., X.M. Xu, and D. Guob. 2012. Rheological, texture and sensory properties of low fat mayonnaise with different fat mimetics. *LWT – Food Sci and Tech.* 40: 946 – 954.
- Livney, Y.D. 2010. Milk protein as vehicles for bioactives. *Colloid and Interfaces Science*, 15(1): 73-83.
- Lubis, E.H., E. Djubaedah, R. Alamsyah, dan N.K.Nuridin. 2004. Mempelajari pengolahan glukomanan asal iles-iles dan penggunaannya dalam produk makanan. *Warta THP.* 21 : (2): 31 – 41.
- Luca. P.A., and B.J. Tepper. 1994. Fat replacers and the functionality of fat in foods. *Trends in Food Sci and Tech* 5(1): 12-19.

- Ma, L., Barbosa, and G.V. Canovas. 1995. Rheological characterization of mayonnaise. Part II : Flow and viscoelastic properties at different oil and xanthan gum concentrations. *J. Food Eng.* 25: 409 – 425.
- Manoj, P., A.J. Fillery-Travis, A.D. Watson, D.J. Hibberd, and M.M. Robin. 2002. Characteristics of a polydisperse depletion flocculated emulsion III. Oscillatory rheological measurements. *J. of Colloid and Interface Sci.* 228: 200 – 206.
- Matsumiya, K., K. Nakanishi, and Y. Matsumura. 2011. Destabilization of protein based emulsions by diglycerol esters of fatty acids – the importance of chain length similarity between dispersed oil molecules and fatty acid residues of the emulsifier. *Food Hydrocolloids.* 25:773 – 780
- Matsumura, Y., M. Egami, C. Satake, Y. Maeda, T. Takashi, and A. Nakamura.. 2003. Inhibitory effects of peptide – bound polysaccharides on lipid oxidation in emulsions. *J. Food Chem.* 83 (1): 107 – 119.
- Mayer, C.M. 2001. Survival of enterohemorrhagic *Escherichia coli* in retail mustard. *J. Food Protect.* 64: 783 – 787.
- Mc. Clements, D.J. 1998. Analysis of Food Emulsion. In. s.s Nielson and M.D. Gaitheburg. (Eds). *Food Analysis* 571 – 585.
- Mc. Clements, D.J. 1999. *Food Emulsions Principles, Practice and Techniques*, CRC Press LLC. Corporate Blvd, N.W. Boca Raton, Florida.
- Mc.Clements, D.J., and K. Demetriades. 2000. *Crit.Rev Food Sci Nutr.*38: 511– 536.
- Mc Clements, D.J. 2005. *Food Emulsions : Principles Practice and Techniquers*, 2nd ed., CRC Press., Boca Raton FL.
- Mc Clements, D.J., and E.A. Decker. 2000. Lipid oxidation in oil – water emulsion : Impact of molecular environment on chemical reactions in heterogeneous food systems. *J. Food Sci.* 65 (8): 1270 – 1282.
- Mc Clements, D.J., and E.A. Decker. 2008. Lipids. In: Damoran, S., Parkin, K. and Fennema, O. R. (eds.) *Fennema's Food Chemistry.* 4th ed. Boca Raton: Taylor & Francis.
- Megan, T. 2008. *Effect of Processing and Formulation Conditions on Physicochemical Characteristics of Food Emulsions.* Tesis. Utah State University.
- Mikonnen, K.S. 2009. Mannans as film formers and emulsion stabilizer. Departement of Food Technology, University of Helsinky. Finlandia.
- Min, D.B., and J. M. Boff. 2002. Lipid oxidation of edible oil. In.C Akoh & D.B . min (Eds). *Food Lipids – Chem, Nutr and Biotech.* pp 335 – 363. Springer. New York.

- Mirhosseini, H., C. Tan, A. Aghlara, N. Hamid, S. Yusof. and B. Chern. 2008. Influence of pectin and CMC on physical stability, turbidity loss rate, cloudiness and flavor release of orange beverage emulsion. *Food Hydrocoll* 22: 1212-1223. Ellulose-Starch Blend Films Regenerated from Aquenos Sodium Hydroxide Solution. *Journal of Food Science and Technology Research*, 15(4), 403-412.
- Miyamoto, H., C. Yamane, M. Seguchi, and K. Okajima. 2009. Structure and Properties of C
- Monahan, E.J., D.J. Mc Clements, and J. B. German. 1996. Disulfide mediated polymerization reactions and physical properties of heated WPI stabilized emulsion. *Journal of Food Sci* 61(3): 504 – 509.
- Montaghi, M., M. Mazaheri, N. Moazami, A. Farkhondeh, M.H. Fooladi, and E.M. Goltapeh. 1997. Short Communication: Kefir Production in Iran. *World of Microbial and Biotec*. 13: 579 - 581.
- Morello, J.R., M.J. Motilva, M.J. Tovar, and M.P. Romero. 2004. Changes in commercial virgin olive during storage with special emphasis on the phenolic fraction. *Food Chem*. 85: 357-364.
- Moslehishad, M., M.R. Ehsani, M.R., Salami, S. Mirdamadi, H. Ezzatpanah, A.N. Nasiaji, and A.K.M. Movahedi. 2013. The comparative assessment of ACE-inhibitory and antioxidant activities of peptide fractions obtained from fermented camel and bovine milk lactobacillus rhamnosus PTCC 1637. *Intern. Dairy J*. 29 (2): 82 – 87.
- Muller, H. 2003. The serum LDL/HDL cholesterol ratio is influenced more favorable by exchange saturated with unsaturated fat than by reducing saturated fat in the diet women. *J. Nutrition*.
- Mun, S., Y.L. Kim, C.G. Kang, K.H. Park, Shim, and J.Y Kim. 2009. Development of reduced fat mayonnaise using 4 Gtase-modified rice starch and xanthan gum. *Int. J. Biol Macromol*. 44: 400 – 407.
- Murofushi, M., Mizuguchi, J. Aibara, and T. Matuhasi. 2006. Immunopotentiative effect of polysaccharide from kefir grain, KGF – C, Administered Orally in Mice *Immunopharmacology*. 12 : 29 – 35.
- Mutiah. 2002. Perbandingan Mutu Mayones Telur Ayam dan Mayones Telur Itik. Institut Pertanian Bogor. Bogor.
- Nagwa, M., Rasmy, Amal, A., Hasan, I. Mervat, Foda, and M. Marwa. 2012, Assesment of the antioxidant activity of sage (*Salvia officinalis*) extracts on the shelf life of mayonnaise. *World J. Dairy Food Sci*. 7 (1): 28 – 40.
- Nakaya, K.,H. Ushio, S. Matsukawa, M. Shimizu, and T. Ohshima. 2005. Effect of droplet size on the oxidative stability of oil in water emulsion. *Lipids*, 40(5), 501-507.

- Nikiforidis, C.V., and V. Kisseoglou. 2007. The role of tween in inhibiting the heat induced destabilization of yolk-based emulsions. *Food Hydrocolloids*. 21:1310 – 1318
- Nikzade, V., Mazaheri, T., and Saadatman. 2012. Fat mayonnaise formulation effect of soy milk and some stabilizer by a mixture design approach. *Food Hydrocol.* 28: 344 – 352.
- Nuchi, C.D., D. J. Mc Clements and E.A. Decker. 2001. Impact of tween 20 hydroperoxides and iron on oxidant ion of methyl linoleat and salmon oil dispersion. *Journal of Agric and Food Chem*, 49(10): 4912-4916.
- Orthofer, F.T. 1996. Rice Bran Oil: Healthy lipid source. *J. Food Technol.* 62 – 64.
- Paraskevopoulou, A., D. Boskow, and A. Paraskevopolou. 2007. Oxidative stability of olive oil – lemon juice salad dressings stabilized with polysaccharides. *J. Food Chem.* 10(3): 1197 – 1204.
- Patel, H. A. 2007. Milk proteins studies on heat and pressure induced interactions of milk protein, PhD Thesis, Massey University. NZ pp 5-16.
- Perales, I., and M.I. Garcia. 1990. The influence of pH and temperature on the behavior of *salmonella enteridis* PTU in home made mayonnaise. *Appl. Microbiol.* 10: 19 – 22.
- Pons, M., M.J, Galotto, and S. Subirats. 1994. Comparison of the steady rheological characteristics of normal and light mayonnaise. *Food Hydrocol.* 8 (3 – 4) : 389 – 400.
- Pourkomalian, B. 2000. Sauces and dressings In . D. Kilcast O. Subramaniam (Eds). *The stability and shelf life of food.* : CRC Press. Washington DC.
- Potter, N.N. 1996 . *Food Science.* 4th edition. The Avi Piblishing Company, Inc Wesport. Connecticut.
- Pszczola, D.E. 2006. Future strategis for fat replacement. *Food Tech.* 60 (6):61–64
- Purnomo, H., I. Suryo, Padaga, dan Purwadi. 1992. *Dasar–Dasar Teknologi Hasil Ternak.* Fakultas Peternakan Unibraw. Malang.
- Raymundoa, A., J.M. Franco, J. Empis, and I. Sousa. 2002. Optimization of the composition of low fat oil in water emulsions stabilized by white lupin protein. *J. Amer. Oil. Chem Soc.* 79: 783 – 790.
- Radford, S.A., and R.G. Board. 1995 . The Influence of Sodium chloride and pH on the growth of *Salmonella enteridis* PTU. *Appl. Microbiol.* 20: 11 – 14.
- Raikos. 2010. Effect of heat treatment on milk protein functionality at emulsion interfaces. A review. *Food Hydrocolloids* 24: 259 – 265.

- Rao, M.A. 1999. Rheology of fluid semi solid foods: Principles and applications. Gaithersburg: Aspen Publishers.
- Ricardo, M.A., J.M. Franco, and C. Gallegos. 2003. Influence of composition of emulsifier blends on the rheological properties of salad dressing type emulsion. *Food Sci and Technol.* 9: 53 – 63.
- Rousseau, D. 2000. Fat crystals and emulsion stability. A review. *Food Research Inter*, 33: 3-14.
- Saenz, C., E. Sepulveda, and B. Matsuhira. 2005. Opuntia spp mucilages functional component with industrial perspectives. *J. Env.* 57: 275 – 290.
- Saha, D., and S. Bhattacharya. 2010. Hydrocolloids as thickening and gelling agent in food : A Critical Review. *J. Food.Sci Technol.* 47 (6) : 587-597.
- Sahan, N., K. Yasar, and A.A. Hayaloglu. 2008. Physical, chemical and flavor quality of non-fat yogurt as affected by a β -glucan hydrocolloidal composite during storage. *Food Hydrocolloids.* 22:1291 – 1297.
- Salunke. D.U., J.K. Chaavan, R. N. Adsule, and S.S. Kadam. 2000. *World Oilseeds : Chemistry Technology and Utilization.* New York van Norstrand Reinhold 554.
- Santipanichwong, R., and M. Suphantarika. 2007. Carotenoids as colorants in reduced-fat mayonnaise containing spent brewer's yeast β -glucan as fat replacer. *Food Hydrocolloids.* 21:565 – 574
- Saska, M., and G.J. Rossiter. 1998. Recovery of gamma- oryzanol from rice bran oil with silica based continuous chromatography. *J. Amer. Oil. Chem. Soc.* 75 (10): 1421 – 1427.
- Serbecic, N and S.C. Beutelspacher. 2005. Anti-oxidative vitamins prevent lipid-peroxidation and apoptosis in corneal endothelial cells. *Cell tissue Res* 320:465-475
- Shahidi, F., and U.N. Wanasundara. 2002. Methods for measuring oxidative rancidity in fat and oil. *Food Lipid – Chemistry, Nutrition and Biotechnology* Second ed. Marcel Dekker, Inc. New York pp. 465 – 487.
- Shahla, S., N.G. Cheng, and R Yusoff. 2010. An overview on transesterification of natural oils and fats : Review. *Biotechnology and Bioprocess Engineering* 15:891-904
- Sharma, P., L. Sign, and N. Dilbaghi. 2009. Optimization of process variables for deization of Disperse Yellow 211 by *Bacillus subtilis* using Box-Behnken design. *Journal of Hazardous Material.* 164:1024 – 1029
- Shen, R.L., F.R. Meng, and S.Q. Luo. 2009. The technology of preparinf fat substitute of oat dextrin. *Cereal and Oil Proccessing.* 9:106 – 109

- Shimada, K., K. Fujikawa, K. Yahara, and T. Nakamura. 1992. Antioxidative properties of xanthan on the autoxidation of soybean oil in cyclodextrin emulsion. *J. Agric and Food Chem.* 40 (6): 945 - 948.
- Snyder, P.O. Jr. 2008. Assuring of Safety of egg yolk based sauced and salad dressings. Family education.
- Stadelman, W.J. 1999. The incredibly functional egg poultry sci. 78: 807 – 811
- Steel, R.G.D. and J.H. Torrie. 1993. Prinsip dan Prosedur Statistik. Suatu Pendekatan Biometrik. Diterjemahkan oleh M. Syah. PT. Gramedia Pustaka Utama, Jakarta.
- Stern, P., J. Pokorny, A. Sediva, and Z. Parovska. 2008. Rheological and sensory characteristics of yoghurt- modified mayonnaise. *J. Food Sci.* 26 (3): 190 – 198.
- Stopforth, J. D., J.N. Sofos, and F.F. Busta. 2005. Sorbic acid and sorbates. In Davidson Antimicrobials in Food. CRC Press. Boca Raton, 49 – 90.
- Su, H. P., C.P. Lien, and T. A. Lee. 2010. Development of low fat mayonnaise containing polysaccharide gums as functional ingredient. *Sci Food Agric.*
- Sudha, M., A. Srivastava, R. Vetrimani, and K. Lelavathi. 2007. Fat replacement in soft biscuits. Its application on dough rheology and quality. *Journal of Food Engineering* 80 (3) : 922-930.
- Sugano, M., and E. Tsuji. 1997. Rice Bran Oil and cholesterol metabolism. *J. Nutr.* 127 (3): 5215 – 5245.
- Sun, J.L., H.X. Li., J. Zeng., G.L. Li., and R.X. Zhao. 2008. Study on preparation technology of dextrans using medium and high temperature α -amylases. *Food Science.* 29:312 – 315
- Susrini. 1994. Metode Pengujian Bahan Makanan Secara Sensori. Fakultas Peternakan Unibraw. Malang.
- Tamime, A.Y., R.K. Robinson, and M. Michel. 2007. Microstructure of concentrated and dried milk product, Blackwell Publishing. pp 104-133
- Tamime, A., Y. Skriver and L.E Nelson. 2006. Starter culture in fermented milk. Blackwell Publishing Company. Oxford.
- Thomas, W.R. 1997. Konjac gum. In : A. Imeson (Ed), Thickening and Gelling Agent for Food, Second edition, pp. 169 – 179. Chapman and Hall, London, England.
- Thomas, K.C., S.H. Hynes, and W. M. Ingledew. 2002. Influence of medium buffering capacity on inhibition of *Saccharomyces cereviceae* growth by acetic and lactic acids. *Appl and Env. Microbiol.* 68: 1616 – 1623.

- Tranggono, Sutardi, Haryadi, Suparno, Murdiati, S. Sudarmadji, K. Rahayu dan Naruti. 1990. Bahan Tambahan Pangan. Pusat Antar Universitas Pangan dan Gizi. UGM . Yogyakarta.
- Turgeon, S., C. Schmitt, and C. Sanchez. 2007. Protein-Polysaccharide complexes and coacervates. *Colloid and Interface Science*, 12(4): 166-178.
- Tabilo Munizaga and B. Canovas. 2005. Rheology for the food industry. *J. of Food Eng.* 67: 147 – 156.
- Waraho, T., D.J. Mc Clements and E.A. Decker. 2011. Mechanisms of lipid oxidation in food dispersions. *Trends in Food Sci & Tech*, 22: 3 – 13.
- Weiping, B. 2006. Improving the physical and chemical functionality of glucomannan derivet films with biopolymers. *J. Appl. Polymer Sci.* Vol. 100: 123 – 130.
- Weiss, J., E.A. Decker, D.J. Mc Clements, K. Kristbergsson, T. Helgason, and Awad. 2008. Solid lipid nano particles as delivery systems for bioactive food component. *Food Biophysics*, 3(2): 146-154.
- Widjanarko, S.B, A. Sutrisno, dan A. Faridah. 2011. Efek hydrogen peroksida terhadap sifat fisiko kimia tepung porang dengan metode maserasi dan ultrasonik. *Jurnal Teknologi Pertanian*. vol 12 no 3 hal 143 – 152.
- Winarno., F.G. 1997. *Kimia Pangan dan Gizi* . PT Gramedia. Jakarta.
- Worrasinchai., S.M., S. Suphantharika, P. Pinja, and Jamnong. 2006 . β - Glucan prepared from spent brewer's yeast as a fat replacer in mayonnaise. *Food Hydrocol.* 20 (1) : 68 – 78.
- Wood. B. J.B., and M.H. Hodge. 1998. Yeast lactic acid bacteria interactions and their contribution of fermented foodstuffs in microbiology of fermented food. *Elsr Appl Sci.* Amsterdam.
- Wu, D., J. Zhou., and Y. Li. 2009. Effect of the sulfidation process on the mechanical properties of a CoMoP/Al2O3 hydrotreating catalyst. *Chemical Engineering Science.* 64:198 – 206
- Ye, A., Y. Hemar, and H.Singh. 2004. Enhancement of coalescence by xanthan addition to oil in water emulsion formed with extensively hydrolysed whey protein. *Food Hydrocoll* 18(5): 737: 746.