

## DAFTAR PUSTAKA

- Abdullah, M.H.R.O., Ch'ng, P.E., dan Lim, T.H. 2011. *Some Physical Properties of Parkia speciosa Seeds*. 2011 International Conference on Food Engineering and Biotechnology IPCBEE vol.9 (2011), Singapoore.
- Ajinugroho, H. 2012. *Identifikasi Senyawa Volatil dan Non-volatil Flavor Cabuk (bungkil Wijen *Sesamum indicum* Terferentasi)* [Tesis]. Universitas Gadjah Mada. Yogyakarta.
- Akporhonor, E.E., Egwaikhide, P.A., dan Eguavoen, I.O. 2006. *Effect of Sprouting on In Vitro Digestibility of Some Locally Consumed Leguminous Seed*. J. Appl. Sci. Mgt 10 (3) 55-58.
- Al Batran, R., Al Bayaty, F., Al-Obaidi, M.M.J., Abdulkader, A. M., Hadi, H. A., Ali, H., M., and Abdulla, M.A. 2013. *In Vivo Antioxidant and Antiulcer Activity of Parkia speciosa Ethanolic Leaf Extract against Ethanol-Induced Gastric Ulcer in Rats*. PLOS ONE, Mei 2013, vol 8, issue 5.
- Almasyhuri, Ridwan, E., Yuniati, H., dan Hermana. 1999. *Pengaruh Fermentasi Terhadap Kandungan Protein dan Asam Amino dalam Singkong*. PGM 1999 (22) 55-61.
- Almatsier, S. 2002. *Prinsip Dasar Ilmu Gizi*. Gramedia Pustaka Utama, Jakarta. Indonesia
- Almeida, C.C., Monteiro, M.L.G., da Costa-Lima, B.R.C., Alvares, T.S., dan Conte-Junior, C.A. 2015. *In Vitro Digestibility of Comercial Whey Protein Supplements*. LWT – Food Science ad Tecnology 61 (2015) 7-11.
- Amarakoon, R. 2009. *The Effect of Cooking on Nutritive Quality of Selected Legumes* [Thesis]. Thomas Bata University of Zlin, Republik Chechnya.
- Amaranth, B. 2004. *A Study on Antioxidant Nature of Petai (Parkia speciosa)* [Tesis]. National University of Singapore.
- Anonim. 1991. *Protein Quality Evaluation*. Roma, Italia.
- Anonim. 2012. *What Exactly is Umami?* [www.umamiinfo.com/2011/02/What-exactly-is-umami.php](http://www.umamiinfo.com/2011/02/What-exactly-is-umami.php) (diakses pada tanggal 25 Maret 2014 pukul 21.16 WIB)

- Asrullah, M., Mathar, A.H., Jafar, C.N., dan Fatimah, St. 2012. *Denaturasi dan DAYA Cerna Protein Pada Proses Pengolahan Lawa Bale (Makanan Tradisional Sulawesi Selatan)*. Media Gizi Masyarakat Indonesia, Vol.1,No.2, Februari 2012: 84-90.
- Baron, M. dan Fiala, J. 2012. *Chasing after Minerality, Relationship to Yeast Nutritional Stress and Succinic Acid Production*. Czech J. Food Sci. 30 (2) 188-193.
- Behrens, M. and Meyerhof, W. 2015. *Taste Receptors*. Dalam : Parker, J.K., Elmore, J.S., Methven, L. (ed). *Flavour Development Analysis Perception in Food and Beverages*, Hal 297-320. Woodhead Publishing, Cambridge.
- Beluhan, S. dan Ranogajec, A. 2011. *Chemical Composition and Non-volatile Components of Croatian Wild Edible Mushroom*. Food Chemistry 124 (2011) 1076–1082.
- Boye, J.I. dan Ma, Z. 2015. *Impact of Processing on Bioactive Compounds of Field Peas*. Dalam : Preedy, V. *Processing and Impact on Active Components in Food*, Hal 63-70. Elsevier, London.
- Bufe, B. dan Meyerhof, W. 2006. ‘Sensory Analysis of Food Flavor’, dalam Voilley, A. dan Etiévan, P. *Flavour in Food*. Woodhead Publishing Limited. Cambridge. Inggris.
- Cahyadi, W. 2008. *Analisis dan Aspek Kesehatan Bahan Tambahan Pangan (Edisi Kedua)*. Bumi Aksara. Jakarta.
- Caire-Juvera, G., Vázquez-Ortiz, F.A., dan Grijalva-Haro, M.I. 2013. *Amino Acid Composition, Score and In Vitro Protein Digestibility of Foods Commonly Consumed in Northwest Mexico*. Nutr Hosp. 28(2):365-371
- Carocho, M., Barros, L., Antonio, A.L., Barreira, J.C.M., Bento, A., Kaluska, I., dan Ferreira, I.C.F.R. 2013. *Analysis of Organic Acids In Electron Beam Irradiated Chestnuts (*Castanea sativa* Mill.): Effects of Radiation Dose and Storage Time*. Food and Chemical Toxicology 55 (2013) 348–352
- Castellió, M., Matiasevich, S., Buera, P., and Maldonado, S. 2010. *Protein Deterioration and Longevity of Quinoa Seeds During Long-Term Storage*. Food Chemistry 121 (4) 952-958.
- Charles, M.T., Arul, J., Charlebois, D., Yaganza, E., Rolland, D., Roussel, D., dan Merisier, J. *Postharvest UV-C Treatment of Tomato Fruits: Changes In Simple*

*Sugars and Organic Acids Contents During Storage*. LWT - Food Science and Technology 65 (2016) 557-564

Chen, D., Zhang, M. 2007. *Non-Volatile Taste Active Compounds in the meat of Chinese Mitten Crab (*Eriocheir sinensis*)*. Food Chemistry 104 (2007) 1200-1205.

Cho, I.H., Choi, H., and Kim, Y. 2010. *Comparison of umami-taste active components in the pileus and stipe of pine-mushroom (*Tricholoma matsutake* Sing.) of different grades*. Food Chemistry 118 (2010) 804-807.

Da Conceicao Neta, E.R., Johanningsmeier, S.D., Drake, M.A., dan McFeeters, R.F. 2007. *A Chemical Basis for Sour Taste Perception of Acid Solutions and Fresh-Pack Dill Pickles*. Journal of Food Science—Vol. 72, Nr. 6, 2007

del Campo, C.P., Garde-Cerdán, T., Sánchez, A.M., Maggi, L., Carmona, M., dan Alonso, G.L. 2009. *Determination of free amino acids and ammonium ion in saffron (*Crocus sativus* L.) from different geographical origins*. Food Chemistry 114 (2009) 1542–1548

Doyle, M.E. 2008. *Sodium Reduction and Its Effects on Food Safety, Food Quality, and Human Health -- A Brief Review of the Literature*. Food Research Institute, University of Wisconsin–Madison.

Fagbohun, E. D., Lawal, O.U. 2011. *Effect of Storage on Nutrient Composition and Microflora of Sundried Soyabean (*Glycine max.*)*. African Journal of Food Science Vol. 5(8), pp. 473-477, August, 2011.

Fagbohun, E. D., Lawal, O.U. dan Hassan O.A. 2011. *The Chemical Composition and Mycoflora of Sundried Shelled Melon Seeds (*Citrullus vulgaris*) during Storage*. IRJM Vol. 2(8) pp. 310-314, September 2011

Fardiaz, D., Apriantono, A., Yasni, S., Budiyanto, S., dan Puspitasari, N.L. 1986. *Analisa Pangan*. IPB. Bogor.

Fennema, O.R. 1996. *Food Chemistry Third Edition*. Marcel Dekker, Inc. New York.

Fuke, S. dan Ueda, Y. 1996. *Interaction between Umami and Other Flavor Characteristics*. Trend in Food Science and Technology, 7(12), 407-411.

Gmelin, R., Susilo, R., and Fenwick, G.R. 1981. *Cyclic Polysulphides From *Parkia Speciosa**. Phytochemistry . 20(11): 2521-2523.

- Gonzalo-Diago, A., Dizy, M., and Fernández-Zurbano, P. 2014. *Contribution of Low Molecular Weight Phenols to Bitter Taste and Mouthfeel Properties in Red Wines*. Food Chemistry 154 (2014) 187–198
- Gross, K.C., Wang, C.Y., dan Saltveit, M. 2016. *The Commercial Storage of Fruits, Vegetables, and Florist and Nursery Stocks*. United States Department of Agriculture (USDA).
- Hahn, D.H., Faubion, J.M., Ring, S.H., Doherty, C.A., dan Rooney, L.W. 1982. *Semiautomated In Vitro Analysis of Sorghum Protein Availability via Pronase Hydrolysis*. Cereal Chem. 59(2) 132-136.
- Harper, A. 1981. *Amino Acid Scoring Patterns*. FAO/WHO/UNU EPR/81/31/AAS.
- Hejazi, S.N., Orsat, V., Azadi, B., dan Kubow, S. 2016. *Improvement of the In Vitro Protein Digestibility of Amaranth Grain Through Optimization of the Malting Process*. Journal of Cereal Science 68 (2016) 59-65
- Jabeen, S., Alam, S., Saleem, M., Ahmad, W., Bibi, R., Hamid, F.S., dan Shah, H.U. 2015. *Withering Timings Affect the Total Free Amino Acids and Mineral Contents of Tea Leaves During Black Tea Manufacturing*. Arabian Journal of Chemistry (2015) xxx, xxx–xxx  
(<http://dx.doi.org/10.1016/j.arabjc.2015.03.011>)
- Jamaludin, F. and Mohamed, S. 1993. *Hypoglycemic Effect of Extracts of Petai Papan (*Parkia speciosa*, Hassk)*. Pertanika J Trap. Agric. Sci. 16(3): 161-165
- Johanningsmeier, S.D., McFeeters, R.F., Drake, F. 2005. *A Hypothesis for the Chemical Basis for Perception of Sour Taste*. Journal of Food Science—Vol. 70, Nr. 2, 2005
- Kamisah, Y., Othman, F., Qodriyah, M.S., dan Jaarin, K. 2013. [Review] *Parkia speciosa Hassk. : A Potential Phytomedicine*. Hindawi Publishing Corporation Evidence-Based Complementary and Alternative Medicine (2013) 1-9
- Kapsimali, M. and Barlow, L.A. 2013. *Developing a Sense of Taste* [Review]. Seminars in Cell & Developmental Biology 24 (2013) 200– 209
- Kausar, T., Akram, K., dan Kwon, J. 2013. *Comparative Effects of Irradiation, Fumigation, and Storage on the Free Amino Acids and Sugar Contents of Green, Black and Oolong Teas*. Radiation Physics and Chemistry 86 (2013) 96–101

- Keast, R.S.J. 2016. *Effects of Sugar and Fat Consumption on Sweet and Fat Taste*. Current Opinion in Behavioral Sciences 2016, 9:55–60
- Kusnandar, F. 2011. *Kimia Pangan Komponen Makro*. Dian Rakyat. Jakarta.
- Lemaire, K., Van de Velde, S., Van Dijck, P., dan Thevelein, J.M. 2004. *Glucose and Sucrose Act as Agonist and Mannose as Antagonist Ligands of the G Protein-Coupled Receptor Gpr1 in the Yeast Saccharomyces cerevisiae*. Molecular Cell, Vol. 16, 293–299, October 22, 2004
- Li, W., Yang, Y., Zhou, S., Liu, Y., and Zhang, J. 2014. *Non-volatile Taste Component of Several Cultivated Mushrooms*. Food Chemistry 143 (2014) 427-431.
- Li, W., Hu, Q., Xu, J. 2015. *Changes in Physicochemical Characteristics and Free Amino Acids of Hawthorn (*Crataegus pinnatifida*) Fruits During Maturation*. Food Chemistry 175 (2015) 50–56
- Lingga, L. 2010. *Cerdas Memilih Sayuran: Plus Minus 54 Jenis Sayuran*. AgroMedia Pustaka. Jakarta.
- Lingsberger-Martin, G., Weiglhofer, K., Phuong, T.P.T., dan Berghofer, E. 2013. *High Hydrostatic Pressure Influence Antinutritional Factor and In Vitro Protein Digestibility of Split Peas and Whole White Peas*. LWT-Food Science and Technology 51 (2013) 331-336.
- Matheis, G. 2007. *Flavour Modifiers*. Dalam : Ziegler, H. *Flavourings: Production, Composition, Application, Regulation – Second Edition*. Wiley-VCH. Jerman.
- Mau, J. 2015. *The Umami Taste of Edible and Medicinal Mushrooms*. International Journal of Medicinal Mushrooms (7) 113-119.
- Mohammed, S., Shamsuddin, M., Abd.Rahman, S., Sulaiman, S., dan Abdullah, F. 1987. *Some Nutritional and Anti-Nutritional Components in Jering (*Pithecellobium jeringa*), Keredas (*Pithecellobium microcarpum*) and Petai (*Parkia speciosa*)*. Pertanika 10 (1) 61-68.
- Mokrane, H., Amoura, H., Belhaneche-Bensemra, N., Courtin, C.M., Delcour, J.A., dan Nadjemi, B., 2010. *Assesment of Algerian Sorghum Protein Quality [*Sorghum bicolor* (L.) Moench] Using Amino Acid Analysis and In Vitro Pepsin Digestibility*. Food Chemistry 121 (2010) 719–723

- Morris, W.L., Shepherd, T., Verral, S.R, McNicol, J.W., and Taylor, M.A. 2010. *Relationships Between Volatile and Non-Volatile Metabolites and Attributes of Processed Potato Flavor*. *Phytochemistry* 71 (2010) 1765-1773.
- Mouritsen, O.G dan Styrbaek, K. 2014. *Umami, Unlocking the Secrets of the Fifth Taste*. Columbia University Press. New York.
- Neta, E.R.D., Johanningsmeier, S.D., dan McFeeters, R.F. 2007. *The Chemistry and Physiology of Sour Taste—A Review*. *J. Food Science* 72 (2) 33-38.
- Nursucihta, S., Thai'in, H.A., Putri, D.M., Utami, D.N., Ghani, A.P. 2014. *Uji Aktivitas Antianemia Ekstrak Etanolik Biji Parkia speciosa Hassk*. *Trad. Med. J.* 19 (2014) 49-54.
- Perez-Diaz, I.M. 2010. *Preservation of Acidified Cucumbers with a Combination of Fumaric Acid and Cinnamaldehyde That Target Lactic Acid Bacteria and Yeasts*. *J. Food Science* 76 (7) 473-477.
- Palic, D.V., Modika, K.Y., Oelofse, A., dan Sakac, M.B. 2012. *Modification of the Method for Determining Protein Solubility of Heat Treated Full-fat Soybeans Using Extraction in Potassium Hydroxide: Inter-laboratory Study*. *BIBLID*: 1450-7188 (2012) 43, 69-78.
- Pei, F., Shi, Y., Gao, X., Wu, F., Mariga, A.M., Yang, W., Zhao, L., An, X., Yang, F., dan Hu, Q. 2014. *Changes in Non-Volatile Taste Component of Button Mushroom (Agaricus bisporus) During Different Stages of Freeze Drying and Freeze Drying Combine with Microwave Vacuum Drying*. *Food Chemistry* 165 (2014) 547-554.
- Peinado, I., Girón, J., Koutsidis, G., dan Ames, J.M. 2014. *Chemical Composition, Antioxidant Activity and Sensory Evaluation of Five Different Species of Brown Edible Seaweeds*. *Food Research International* 66 (2014) 36-44.
- Petropoulos, S.A., Ntatsi, G., Fernandes Â., Barros, L., Barreira, J.C.M., Ferreira, I.C.F.R., dan Antoniadis, A. 2016. *Long-Term Storage Effect on Chemical Composition, Nutritional Value and Quality of Greek Onion Landrace "Vatikiotiko"*. *Food Chemistry* 201 (2016) 168-176
- Phat, C., Moon, B., and Lee, C. 2016. *Evaluation of Umami Taste in Mushroom Extracts by Chemical Analysis, Sensory Evaluation, and an Electronic Tongue System*. *Food Chemistry* 192 (2016) 1068-1077.
- Pilon, B. 2011. *How Much Protein?* Strength World, Inc.

- Požrl, T., Žnidarčič, D., Kopjar, M., Hribar, J., dan Simčič, M. 2010. *Change of Textural Properties of Tomatoes due to Storage and Storage Temperature*. J. food, Agriculture & Enviromental Vol 8. (2): 292-296
- Purwayanti, S., Gardjito, M., Santoso, U., and Supriyadi. *Taste Compounds from Crude Extract of Bekkai Lan (*Albertisia papuana* Becc.)*. J. Food and Nutrition Science 2013; 1(4): 33-37
- Radchuk, R., Radchuk, V., Weshke, W., Borisjuk, L., dan Weber, H. 2006. *Repressing the Expression of the SUCROSE NONFERMENTING-1-RELATED PROTEIN KINASE Gene in Pea Embryo Causes Pleiotropic Defects of Maturation Similar to an Abscisic Acid-Insensitive Phenotype*. Plant Physiology, January 2006 (140) 263-278
- Regiarti, U. dan Susanto, W.H. 2015. *Pengaruh Konsentrasi Asam Malat dan Suhu Terhadap Karakteristik Fisik Kimia dan Organoleptik Effervescent Ekstrak Daun Mengkudu (*Morinda citrifolia* L.)*. Jurnal Pangan dan Agroindustri Vol. 3 No 2 p.638-649, April 2015
- Sha, S., Li, J., Wu, J., dan Zhang, S. 2011. *Characteristic of Organic Acids in the Fruit of Different Pear Species*. African J. Agricultural Research Vol 6 (10) 2403-2410.
- Shao, D., Venkitasamy, C., Li, X., Pan, Z., Shi, J., Wang, B., Teh, H.E., and McHugh, T.H. 2015. *Thermal and Storage Characteristics of Tomato Seed Oil*. LWT - Food Science and Technology 63 (2015) 191-197.
- Shen, S., Wang, Y., Li, M., Xu, F., Chai, L., dan Bao, J., 2015. *The Effect of Anaerobic Treatment on Polyphenols, Antioxidant Properties, Tocols and Free Amino Acids in White, Red, and Black Germinated Rice (*Oryza sativa* L.)*. Journal of Functional Foods 19 (2015) 641–648
- Steagall, R. dan Nabors, L.O. 2007. *Polyols: Beyond Sweet Taste*. Food Procuct Design Vol 17 No 10 Oktober 2007.
- Suárez, M.H., Galdón, B.R., Mesa, D.R., Romero, C.D., dan Rodríguez, E.R. 2012. *Sugars, Organic Acids and Total Phenols in Varieties of Chestnut Fruits from Tenerife (Spain)*. Food and Nutrition Sciences 3 (2012) 705-715.
- Sulvi, P., Murdijati, G., Umar, S., Supriyadi. *Taste compounds from crude extract of bekkai lan (*Albertisia papuana* Becc.)*. Journal of Food and Nutrition Sciences 1(4): 33-37

- Sulvi, P., Murdijati, G., Umar, S., Supriyadi. *Umami potential from crude extract of Bekkai lan (*Albertisia papuana* Becc.) leaves, an indigenous plant in East Kalimantan-Indonesia*. International Food Research Journal 20(2): 545-549 (2013)
- Sunanto, H. 1992. *Seri Budi Daya: Petai*. Penerbit Kanisius. Yogyakarta.
- Sutanti, A. 2016. *Perubahan Sifat Fisik dan Kimia, Aktivitas Antioksidan, Serta Profil Senyawa Volatil Petai (*Parkia speciosa* Hassk) Selama Penyimpanan Pada Suhu Kamar dan Suhu 15°C* [Tesis]. Universitas Gadjah Mada. Yogyakarta.
- Tsai, S., Tsai, H., dan Mau, J. 2008. *Non-volatile taste components of *Agaricus blazei*, *Agrocybe cylindracea* and *Boletus edulis**. Food Chemistry 107 (2008) 977–983.
- Waller, G.R., Mangiafico, S., dan Ritchey, C.R. 1978. *A Chemical Investigation of *Aloe barbadensis* Miller*. Proc. Okla. Acad. Sci. 58: 69-76 (1978)
- Wang, L., Xu, R., Hu, B., Li, W., Tu, Y., dan Zeng, X. 2010. *Analysis of Free Amino Acids in Chinese Teas and Flower of Teas Plant by High Performance Liquid Chromatography Combined with Solid-Phase Extraction*. Food Chemistry 123 (2010) 1259-1266
- Wardlaw, G.M. dan Hampl, S.J. 2006. *Trace minerals. Perspectives in Nutrition, 7th ed.* McGraw-Hill Ryerson.
- WHO. 2007. *Protein and Amino Acid Requirements in Human Nutrition: Report of a Joint WHO/FAO/UNU Expert Consultation*. World Health Organization. Swiss.
- Yin, F., Pajak, A., Chapman, R., Sharpe, A., Huang, S., dan Marsolais, F. 2011. *Analysis of common bean expressed sequence tags identifies sulfur metabolic pathways active in seed and sulfur-rich proteins highly expressed in the absence of phaseolin and major lectins*. BMC Genomics 2011, 12:268
- Yin, J., Zhang, Y., Du, Q., Chen, J., Yuan, H., and Xu, Y. 2014. *Effect of Ca<sup>2+</sup> Concentration on the Tastes From the Main Chemicals in Green Tea Infusions*. Food Research International 62 (2014) 941–946