

DAFTAR PUSTAKA

- Abidin, Z. (2012). Meningkatkan Produktivitas Puyuh. Cetakan Kedua. Penerbit Agro Media Pustaka. Jakarta.
- Achmanu, Muharliien dan Salaby. (2011). Pengaruh lantai kandang (rapat dan renggang) dan imbangannya jantan betina terhadap konsumsi pakan, bobot telur, konversi pakan dan tebal kerabang pada burung puyuh. *Jurnal Ternak Tropika*. 12 (2): 1-14.
- Adrizar, Heryandi, Y., Amizar, R., and Mahata, M. E. (2017). Evaluation of pineapple [*Ananas comosus* (L.) Merr] waste fermented using different local microorganism solutions as poultry feed. *Pakistan Journal of Nutrition*. 16(2):84-89. DOI: 10.3923/pjn.2017.84.89.
- Afifah, A. A. (2012). Denaturasi, Koagulasi, dan Non-enzymatic Browning. <https://blog.ub.ac.id/ayuyuniafifah/2012/09/26/denaturasi-koagulasi-dan-non-enzymatic-browning-2/>. Diakses pada tanggal: 1 Mei 2020.
- Agus, H. (2003). *Rebung Bambu*. Yogyakarta: Kanisius.
- Al-Harhi, M. A., El-Deek, A. A., and Attia, Y.A., (2010). Utilization of dried whole eggs processed by different methods with or without growth promoting mixture on performance and lymphoid organs of broiler chicks. *Int. J. Poultry Sci* 9:511-520
- Al-Harhi, M. A., El-Deek, A.A., and Attia, Y.A. (2011). Impacts of dried whole eggs on productive performance, quality of fresh and stored eggs, reproductive organs and lipid metabolism of laying hens. *Brit. Poultry Sci* 52:333-344.
- Ambarwati, D. A. (2017). Karakteristik Kimiawi Telur Burung Puyuh yang Diberi Ransum Tepung Limbah Udang Fermentasi. Skripsi. Universitas Diponegoro.
- Amrullah, I. K. (2003). *Nutrisi Ayam Petelur*. Lembaga Satu Gunung Budi Baranang Siang, Bogor.
- Amrullah, I. K. (2004). *Nutrisi Ayam Broiler*. Seri Beternak Mandiri. Lembaga Satu Gunung Budi Baranang Siang, Bogor.
- Anggraeni, C. L. (2010). Pengaruh Pemberian Ekstrak Etanol Ketan Hitam (*Oryza sativa* Linn. var *glutinosa*) Terhadap Kadar LDL dan HDL Tikus yang Diberi Minyak Goreng Bekas Pakai. Skripsi. Fakultas Farmasi. Universitas Jember.
- Anggorodi, R. (1995). *Nutrisi Aneka Ternak Unggas*. PT. Gramedia Pustaka Utama, Jakarta.

- Anjalani, R., Budhi, S. P. S., dan Hartai, H. (2013). Pengaruh perbedaan kadar kalsium hidroksida dan penambahan air Terhadap komposisi kimia dan pencernaan *in vitro* daun kelapa sawit. *Buletin Peternakan* 37(2): 107-113.
- Anton, M. (2006). Recent advances concerning the functional properties of egg yolk low-density lipoproteins. In Proceedings of the EPC Proceedings of 12th European Poultry Conference, Verona, Italy (pp. 10-14).
- AOAC. (1990). Official Method of Analisis 14th Ed. Association of the Official Analytical Chemist, Washington DC.
- Ardiansyah, R., Sujana, E., dan Tanwiriah, W. (2016). Pengaruh Pemberian Tingkat Protein Dalam Ransum Terhadap Kualitas Telur Puyuh (*Coturnix-coturnix japonica*). Artikel Ilmiah. Fakultas Peternakan. Universitas Padjajaran. Jatinangor. 5(4):1-10.
- Ardinna, E., Yulianti, I., dan Masturi. (2016). Ekstraksi Kulit Buah Naga (Dragon Fruit) Sebagai Zat Pewarna Alami pada Kain Batik. Prosiding Pertemuan Ilmiah XXX HFI Jateng dan DIY. Salatiga. ISSN: 0853-0823. P.158-160.
- Arizona, R. dan Ollong, A. R. (2020). Kualitas Telur Puyuh Selama Penyimpanan dan Temperatur yang Berbeda. *Jurnal Ilmu Peternakan dan Veteriner Tropis*. Vol. 10(1): 70-76
- Arrosichin, K., Yuniarto, V. D., dan Wahyono, F. (2016). Kandungan kolesterol, High Density Lipoprotein (HDL) dan low density lipoprotein (LDL) darah burung puyuh dengan pemberian aditif cair buah naga merah. *Jurnal Ilmu-Ilmu Peternakan*, 26(1), 16-22.
- Astawan, M. dan Kasih, A. L. (2008). Khasiat warna-warni makanan. Jakarta: Gramedia Pustaka Umum.
- Astuti, I., Mastika, I. M., and Dewi, G. A. M. K. (2016). Performan Broiler Yang Diberi Ransum Mengandung Tepung Kulit Buah Naga Tanpa Dan Dengan *Aspergillus niger* terfermentasi. *Majalah Ilmiah Peternakan*. Vol. 19(2): 65-70. DOI: 10.24843/MIP.2016.v19.i02.p04.
- Attia, Y.A., El-Deek, A. A. and Osman, M. (1998). Evaluation of sunflower meal as feedstuff in diets of ducks. *Archiv. für Geflügelk* 62:273-282.
- Aydin, R., Karaman, M., Cicek. T., and Yardibi, H. (2008). Black cumin (*Nigella sativa* L.) supplementation into the diet of the laying hen positively influences egg yield parameters, shell quality, and decreases egg cholesterol. *Poultry science*. 87(12): 2590-2595
- Badan Penelitian dan Pengembangan Pertanian Kementerian Pertanian, (2005)
- Baghi, D., Sen, C. K., Baghi, M., and Atalay, M. (2004). Anti-angiogenic, antioxidant, and anticarcinogenic properties of a novel antosianin-rich berry extract formula. *Biochemistry-US* 69: 75-80.

- Bahri, S. dan Rusdi. (2008). Evaluasi Energi Metabolis Pakan Lokal pada Ayam Petelur. *J Agroland* 15(1)75-78.
- Batara, L. N. (2015). Kualitas Mikroorganisme Lokal (Mol) Yang Digunakan Pada Penanaman Padi (*Oryza Sativa L.*) Dengan Metode System Of Rice Intensification (Sri) Organik (Doctoral dissertation, Bogor Agricultural University (IPB)).
- Bayani, R. M. (2009). Kanker Rongga Mulut Disebabkan oleh Kebiasaan Menyirih (Laporan Kasus) [Skripsi]. Medan: Fakultas Kedokteran Gigi, Universitas Sumatera Utara.
- Bellec, L. P., Vaillant, F., and Imbert, E. (2006). Pitahaya (*Hylocereus* spp.): A New Fruit Crop, a Market With a Future. *Fruit* 61 (4):237-250.
- Blaszczyk, B. T.U, Zofia. Darius, G. Tomasz, S. Danuta, S. Krystyna, R, dan Joanna, J. (2006). Changes in the blood plasma testosterone and cholesterol concentrations during sexual maturation of Pharaoh quails. *Animal Science Papers and Reports*. 24 (3): 259-266.
- Blum, C. B., and Stone, N. J. (2016). New Strategies to Treat High Cholesterol. *Jama*, 315(11), 1169-1169.
- Bolsen, K. K. (1993). Prinsip Dasar Silase. dalam: Teknologi Silase. Alih Bahasa Rini S. Martoyoedo., Pioner Seeds.
- Britton, N. L., and Rose, J.N. (1963). The Cactaceae, vol. 2. New York: Dover; 183-212.
- Broderick, G. A., Yang, J. H., and Koegel, R. G. (1993). Effect of Steam Heating Alfalfa Hay on utilization by lactating dairy cows. *Journal Dairy Science* 76; 165-174
- Cabrita, L. (1999). Analysis and stability of antosianins. [dissertation]. University of Bergen, Department of Chemistry, Bergen.
- Cai, Y., Sun, M. and Corke, H. (2005). HPLC characterization of betalains from plants in the amaranthaceae, *J. Chromatogr. Sci.*, **43**, 454-60.
- Calabresi, L., and G. Franceschini. 2010. Lecithin:Cholesterol Acyltransferase, High- Density Lipoproteins, And Atheroprotection In Humans. *Trends Cardio- Vasc Med* 2010; 20: 50-3.
- Canogullari, S., Baylan, M., Erdogan, Z., Duzguner, V., and Kucukgul, A. (2010). The Effect of Dietary Garlic Powder on Performance, Egg Yolk and Serum Cholesterol Concentrations in Laying Quails. *Czech Journal of Animal Science*. Vol. 55 (7): 286-293.
- Çatlı, A. U., Bozkurt, M., Küçükyılmaz, K., Çınar, M., Bintas, E., Çöven, F., dan Atik, H. (2012). Performance and egg quality of aged laying hens fed diets

supplemented with meat and bone meal or oyster shell meal. *South African Journal of Animal Science*, 42(1), 74-82.

- Cedar, J., Hastings, S. B., and Kohlmeier, L. (2000). Antioxidant from carrot in cardi- ovascular and cancer disease prevention. *The American Journal of Clinical Nutrition* 82 : 175 – 180.
- Cesari, V., Mangiagalli, M. G., Giardini, A., Galimberti, P., Carteri, S., Gallazzi, D., and Toschi, I. (2014). Egg quality and productive performa produksince of laying hens fed different levels of skimmed milk powder added to a diet containing *Lactobacillus acidophilus*. 93: 1197–1201.
- Chandra, B., Zulharmita, dan Putri, W. D. (2019). Penetapan Kadar Vitamin C Dan B1 Pada Buah Naga Merah (*Hylocereus Lemairei* (Hook.) Britton & Rose) Dengan Metode Spektrofotometri Uv-Vis. *Jurnal Farmasi Higea*, 11(1), 62-74.
- Chang, R. and Tikkanen, W. (1988). *The Top Fifty Industrial Chemicals*. Random House. New York.
- Charoensiri, R., Kongkachuicha, R., Suknicom, S. and Sungpuag, P. (2009). Betacarotene, lycopene, and alpha-tocopherol contents of selected Thai fruits. *Food Chemistry* 113: 202–207.
- Choe, H. S., Song, T. H., Han, O. K., Park, T. I., and Ryu, K. S. (2013). Effect of Barley Containing Different Levels of Anthocyanin on the Performance and Egg Quality of Laying Hens. *Journal of Life Science*. Vol. 23(2): 237-241.
- Citramukti, I. (2008). Ekstraksi dan Uji Kualitas Pigmen Antosianin pada Kulit Buah Naga Merah (*Hylocereus costaricensis*), (Kajian Masa Simpan 9 Buah dan Penggunaan Jenis Pelarut). Skripsi Jurusan THP Universitas Muhammadiyah Malang.
- Collins, J. (2015). *The Effect of Hay Type and Soaking on Glycemic Response in Horse*. Master's Thesis, Middle Tennessee State University, Murfreesboro, Tennessee.
- Destia, M., Sudrajat, D., dan Dihansih, E. (2017). Pengaruh Rasio Panjang dan Lebar Kandang terhadap Produktivitas Burung Puyuh (*Coturnix-coturnix japonica*) Periode Produksi. *Jurnal Peternakan Nusantara*. 3(2): 57-64.
- Dewansyah, A. (2010). Efek Suplementasi Vitamin A dalam ransum terhadap produksi dan kualitas telur burung puyuh. Skripsi. Fakultas Pertanian Universitas Sebelas Maret. Surakarta.
- Dewi, G. A. M. K., Nuriyasa, I. M., dan Wirapartha, M. (2018). Pengaruh Ransum Dengan Tepung Kulit Buah Naga (*Hylocereus polyrhizus*) Terfermentasi Terhadap Karkas Ayam Broiler. *Majalah Ilmiah Peternakan*. Vol. 21 (3): 114-119. DOI: 10.24843/MIP.2018.v21.i03.p05

- DiSilvestro, R. A. (2000). Zinc in relation to diabetes and oxidative disease. *The Journal of nutrition*, 130(5), 1509S-1511S.
- Djaenudin, D., Marwan H., Subagjo H., dan A. Hidayat. (2003). Petunjuk Teknis Evaluasi Lahan untuk Komoditas Pertanian. Edisi ke-1. Balai Penelitian Tanah, Pusat Penelitian dan Pengembangan Tanah dan Agroklimat. Bogor.
- Djunaidi, I. H., Natsir, M. H., Nuningtyas, Y. F., dan Yusrifar, M. (2020). The Effectiveness of Biacid (Organic Acid and Essential Oil) as Substitute for Antibiotics on Ileal Characteristics of Broilers. In IOP Conference Series: Earth and Environmental Science. Vol. 478(1): 12-73
- Dowarah, R. and Sethi, A. P. S. (2014). Various dietary levels of protein and energy interaction on growth performance of white plumage japanese quails. *Vet World*. 7(6):398-402.
- Doyle, P.T., Devendra, C., and Pearce, B. R. (1986). Rice straw as a feed for ruminant. IDP, Camberra. p. 54-74.
- Duarte, K. F., Junqueira, O. M., Borges, L. L., Rodrigues, E., da S Filardi, R., Praes, M. F. F. M. (2013). Performance, carcass traits, and body composition of broilers fed different linseed oil levels between 21 and 56 days of age. *Brazilian Journal of Poultry Science*. 15:55-60.
- Dunkley, K. D., Dunkley, C. S., Njongmeta, N. L., Callaway, T. R., Hume, M. E., Kubena, L. F., and Ricke, S. C. (2007). Comparison of in vitro fermentation and molecular microbial profiles of high-fiber feed substrates incubated with chicken cecal inocula. *Poultry science*, 86(5), 801-810.
- Echlin P (2009). Handbook of Sample Preparation for Scanning Electron Microscopy and X-Ray Microanalysis. DOI: <https://www.doi.org/10.1007/978-0-387-85731-2>
- Edi, D. N., Natsir, M. H., dan Djunaidi, I. (2018). Pengaruh penambahan ekstrak daun jati (*Tectona grandis linn. F*) dalam pakan terhadap performa ayam petelur. *Jurnal Nutrisi Ternak Tropis*, 1(1), 34-44.
- Eishu, R. I., Sato, K., dan Oikawa, T. (2005). Effects of Dietary Protein levels on Production and Characteristics of Japanese Quail Egg. *The Journal of Poultry Science*, 42: 130–139.
- Ekawati, P., Roztiati, dan Syahraeni. (2015). Aplikasi Ekstrak Kulit Buah Naga Sebagai Pewarna Alami Pada Susu Kedelai dan Santan. *e-J Agrotekbis*. Vol. 3 (2): 198–205.
- El-Deek, A. A. and Al-Harhi, M. A. (2009). Nutritive value of treated brown marine algae in pullet and laying diets. *World Poultry Science Association, Proceedings of the 19th European Symposium on Quality of Poultry Meat, 13th European Symposium on the Quality of Eggs and Egg Products, Turku, Finland, 21-25 June 2009 pp. 1-12*

- El-Deek, A. A. and Brikaa, M. A. (2009). Nutritional and biological evaluation of marine seaweed as a feedstuff and as a pellet binder in poultry diet. *International Journal of Poultry Science* 8(9): 875-881.
- El-Deek, A. A., Al-Harathi, M. A., and Attia, Y. A. (2011). Effect of different dietary levels of dried eggs by-product without or with shell on the performance of laying strain chicks from 2 to 8 week of age. *Archiv. Für Geflügelk* 75(1):20-29.
- El-Deek, A. A., Al-Harathi, M.A., Abdalla, A. A., and Elbanoby, M. M. (2011). The use of brown algae meal in finisher broiler diets. *Egypt. Poult. Sci* 31(4): 767-781.
- El-Deek, A. A., and Brikaa, M. A. (2009). Effect of different levels of seaweed in starter and finisher diets in pellet and mash form on performance and carcass quality of ducks. *International Journal of Poultry Science* 8(10): 1014-1021.
- Elitechgroup. (2012). <http://www.elitchgroup.com/corporate/home>. Diakses tanggal 24 Februari 2018.
- El-Katcha, M, M.A. Soltan, K. El-Naggar, Set A. El-Shobokshy, and M.A. El-Erian. (2019). Laying Performance, Fat Digestibility and Liver Condition of Laying Hens Supplemented With Vitamin B12 or Biotin and/ or Bile Acids In Diet. *Slov Vet Res* 2019; 56 (Suppl 22): 341–52. Doi: 10.26873/SVR-773-2019.
- Encyclopædia Britannica. (2019). Lipoprotein. Encyclopædia Britannica inc. <https://www.britannica.com/science/lipoprotein>. <https://www.britannica.com/editor/The-Editors-of-Encyclopaedia-Britannica/4419>
- Ensminger, M. E. (1992). *Poultry Science*. Interstate Publisher Inc, Danville, Illinois.
- Evans, R.J., Bauer, D.H., Bandemer, S.L., Vaghefi, S.B. and Flegal, C.J. (1973) Structure of egg yolk very low-density lipoprotein. Polydispersity of the very low density lipoprotein and the role of lipovitellenin in the structure. *Archives of Biochemistry and Biophysics* 154: 493-500
- Fadilla, U., Kardaya, D., dan Dihansih, E. (2018). Kualitas Telur Puyuh (*Coturnix-coturnix japonica*) yang Diberi Pakan Komersial Dengan Penambahan Tepung Bawang Putih dan Tepung Jintan. *Jurnal Peternakan Nusantara*. Vol. 4(1): 19-23.
- Fajrin, F. A. (2010). Aktivitas Ekstrak Etanol Ketan Hitam Untuk Menurunkan Kadar Kolesterol. *Jurnal Farmasi Indonesia*, 5(2): 63-69. DOI: 10.35617/jfi.v5i2.39
- Fang, J. (2014). Bioavailability of Anthocyanins. Review Article. *Drug Metabolism Reviews*. 46(4): 508–520

- Fardiaz, S. (1989). Fisiologi Fermentasi. Pusat Antar Universitas Pangan dan Gizi Ilmu Pertanian Bogor, Bogor.
- Farghly, M. F. A. and D. E. Abou-Kassem. (2014). Impacts of feed color and form on growth performa produksince of local turkey. *Egyptian J. Nutrition and Feeds* 17(3): 537–547.
- Farghly, M. F., and Mahrose, K. M. (2018). The response of growing native turkeys to different feed colours and forms. *Journal of animal physiology and animal nutrition*, 102(1), e69-e76.
- Fathinatullabibah, F., Khasanah, L. U., dan Kawiji, K. (2014). Stabilitas antosianin ekstrak daun jati (*Tectona grandis*) terhadap perlakuan pH dan suhu. *Jurnal Aplikasi Teknologi Pangan*, 3(2): 60-63.
- Fatoni, A., Sukarsono, A., dan Krisno, B. (2016). Pengaruh mol rebung bambu (*Dendrocalamus asper*) dan waktu pengomposan terhadap kualitas pupuk dari sampah daun. Prosiding Seminar Nasional II Tahun 2016, Kerjasama Prodi Pendidikan Biologi Fkip Dengan Pusat Studi Lingkungan Dan Kependudukan (Pslk) Universitas Muhammadiyah Malang. P. 876-881.
- Fayyaz, S., Saddique, S., Khalid, H., Naureen, S., Salman, M., Islam, M., Zahid, F., Naheed, S., Khan, M. T., Amjad, S., Qamar, S., Ahmad, S. (2016). Is quercetin accumulating in eggs using flavonoids-enriched poultry feed. *Journal of Animal and Plant Sciences*. 26(5): 1479-1485
- Febriani, W. (2017). Efek Pemberian Simvastatin Terhadap Kadar Kolesterol Telur Puyuh. *BIOSFER Jurnal Tadris Pendidikan Biologi*. Vol. 8 (2) 158-170.
- Fenita, Y. dan Suteky, T. (2006). Pengaruh pemberian niasin terhadap kandungan kolesterol telur dan perlemakan serum darah puyuh. *Jurnal Sains Indonesia*. 1(2):45-48.
- Ferket, P.R, and Gernet, A.G. (2006). Factors That Affect Feed Intake of Meat Bird: A Review. *J. Poultry Sci*. 5 (10): 905-911.
- Fernandez, M. L. (2008). The Cholesterol ratio, a More Reliable Clinical Tool Than LDL Cholesterol to Evaluate Coronary Heart Disease Risk. *National Lipid Assosiation*. 6(4): 1-26.
- Ferry, I. G. P. A. S. P., Manurung, M., and Puspawati, N. M. (2015). Efektifitas Antosianin Kulit Buah Jamblang (*Syzygium Cumini*) Sebagai Penurun Low Density Lipoprotein Darah Tikus Wistar Yang Mengalami Hiperkolesterolemia. *Cakra Kimia (Indonesian E-Journal of Applied Chemistry)* Vol. 3(12): 9-22.
- Figueiredo, G. O., A. G. Bertechini, E. J. Fassani, P. B. Rodrigues, J. Á. G. Brito, S. F. Castro. (2012). performa produksince and egg quality of laying hens fed with dietary levels of digestible lysine and threonine. *Arq. Bras. Med. Vet. Zootec*. 64(3): 743–750.

- Francis, F. J. (1999). Colorants. Minnesota, Usa. Eagan Press.
- Fransela, T. C. L. K., Sarajah, M. E. R., Montong dan Najohan, M. (2017). Performans burung puyuh (*Coturnix-coturnix japonica*) yang diberikan tepung keong sawah (*pila ampullacea*) sebagai pengganti tepung ikan dalam ransum. Jurnal ZooteK. 37(1): 62-69.
- Frederick, R. A. (2014). Effects of static vs. non-static in vitro techniques on lipid penetration into silicone hydrogel contact lenses (Doctoral dissertation, Tulane University School of Science and Engineering).
- Freeman, M dan Junge C. (2005). Kolesterol Rendah Jantung Sehat. Penerbit Buana Ilmu Populer.
- Fróes, H. G., Jácome, I. M. T. D., Tavares, R. A., Garcia, R. G., Domingues, C. H. F., Bevilaqua, T. M. S., Martinelli, M., Naas, I. A. and Borille, R. (2018). Grape (*Vitis vinifera*) pomace flour as pigment agent of quail eggs. Brazilian Journal of Poultry Science, 20(1), 183-188.
- Gaman, P. M., and Sherrington, K. B. (1992). Ilmu Pangan Pengantar Ilmu Pangan, Nutrisi Dan Mikrobiologi Ed. 2. Yogyakarta: Gadjah Mada University Press.
- Giusti MM, and Wrolstad RE (2001). Characterization and measurement of anthocyanins by UV-Visible spectroscopy. Current protocols in food analytical chemistry, Page: F1.2.1-F1.2.13. DOI: <https://www.doi.org/10.1002/0471142913.faf0102s00>
- Godbert, S.R., N. Guyot and Y. Nys. (2019). The Golden Egg: Nutritional Value, Bioactivities, and Emerging Benefits for Human Health. Review. Nutrients, 11: 1-26. Doi:10.3390/Nu11030684
- Graf, D., Seifert, S., Jaudszus, A., Bub, A., and Watzl, B. (2013). Anthocyanin-rich juice lowers serum cholesterol, leptin, and resistin and improves plasma fatty acid composition in fischer rats. PLoS One, 8(6), e66690. 1-5. DOI: 10.1371/journal.pone.0066690.
- Granzin, B. C. and Dryden, G. M. L. (2003). Effects of alkalis, oxidants and urea on the nutritive value of rhodes grass (*Chloris gayana cv. Callide*). Animal Feed Science and Techology 103: 113-122.
- Gunasena, H. P. M., Pushpakumara, D. K. N. G., and Kariyawasam, M. (2007). Dragon fruit *Hylocereus undatus* (Haw.) Britton and Rose. Underutilized fruit trees in Sri Lanka, 1, 110-141.
- Guo, H., Liu, G., Zhong, R., Wang, Y., Wang, D., and Xia, M. (2012). Cyanidin-3-O-β-glucoside regulates fatty acid metabolism via an AMP-activated protein kinase-dependent signaling pathway in human HepG2 cells. Lipids Health Dis. 11:10. doi: 10.1186/1476-511X-11-10.

- Gómez, P. E., Miñano, A., and López-Roca, J. M. (2006). Comparison of chromatic properties, stability and antioxidant capacity of antosianin-based aqueous extracts from grape pomace obtained from different vinification methods. *Food Chemistry* 97:87-94.
- Hambali, M., dan Noermansyah, F. (2015). Ekstraksi antosianin dari ubi jalar dengan variasi konsentrasi solven, dan lama waktu ekstraksi. *Jurnal Teknik Kimia*, 20(2): 25-35.
- Hammad, S. M., Siegel, H. S., and Marks, H. L. (1996). Dietary Cholesterol Effects On Plasma and Yolk Cholesterol Fraction in Selected Lines of Japanese Quail. *Poultry Sci.* 75:933-942.
- Hankyu, C. (2010). Natural Farming. CGNF Company, Korea (KR).
- Hapsari, R. P. (2006). Energi metabolis dan Efisiensi Penggunaan Energi Ransum Ayam Broiler yang Mengandung Limbah Restoran sebagai Pengganti Dedak Padi. Skripsi. Fakultas Peternakan, Institut Pertanian Bogor, Bogor.
- Hardjadinata, S. (2010). Budidaya Buah Naga Super Red Secara Organik. Jakarta. Penebar Swadaya.
- Harivaindaram, K. V., Rebecca, O. P. S., and Chandran, S. (2008). Study of optimal temperature, pH and stability of dragon fruit (*Hylocereus polyrhizus*) peel for use as potential natural colorant. *Pakistan Journal of Biological Sciences* 11 (18): 2259-2263.
- Hariyanto B. (2016). Produktivitas Buah Naga (*Hylocereus polyrhizus*) di Lahan Marjinal. Balai Penelitian Tanaman Buah Tropika. Solok. Prosiding Seminar Nasional Membangun Pertanian Modern dan Inovatif Berkelanjutan dalam Rangka Mendukung MEA. p 371-379.
- Harjanti, R. S. (2016). Optimasi Pengambilan Antosianin dari Kulit Buah Naga Merah (*Hylocereus polyrhizus*) Sebagai Pewarna Alami pada Makanan. *Chemica*. Vol 3(2), 39-45.
- Hart. M.A., H.G. Walker Jr., R.P. Graham, P.G. Hanni, A.H. Brown and G.O. Kohler. (1981). Steam treatment of crop residues for increased ruminant digestibility. 1. Effect of process parameter. *J. Anim. Sci.* 51: 402-408.
- Hartono, T. (2004). Permasalahan Puyuh dan Solusinya. Penebar Swadaya, Jakarta.
- Hasil Analisis Laboratorium Nutrisi Non Ruminansia Fakultas Peternakan. (2015). Analisis Kandungan Ca dan P Tepung Tulang. Universitas Andalas, Padang.
- Hazim, J. A., Razuki, W. M., Al-Hayani, W. K., and Al-Hasani, A. S. (2011). Influence of Source of Oil Added on Egg Quality Traits of Laying Quail. *J. Poult. Sci.* 10(2): 130-136.

- He, J., Wallace, T. C., and Keatley, K. E. (2009). Stability of black raspberry anthocyanins in the digestive tract lumen and transport efficiency into gastric and small intestinal tissues in the rat. *J Agric Food Chem* 57: 3141–3148.
- Heinecke, J.W. (2009). The HDL Proteome: A Marker and Perhaps Mediator of Coronary Artery Disease. *J Lipid Res*; 50 (Suppl): 167–171.
- Hendrani, A.D, T. Adesiyun, R. Quispe, S.R. Jones, N.J. Stone, and R.S. Blumenthal. (2016). Dyslipidemia Management in Primary Prevention of Cardiovascular Disease: Current Guidelines and Strategies. *World J Cardiol*, 8(2):201-10.
- Herman, S. (1991). Pengaruh gizi terhadap penyakit kardiovaskuler. *Cermin Dunia Kedokteran*, 73, 12-16.
- Hermana W, Toharmat T, Sumiati, dan Manalu W. (2013). Pemberian tepung daun katuk dan murbei dalam pakan terhadap ukuran dan kandungan mineral tulang tibia puyuh petelur. *JITV*. 18:227-232
- Herperian, Kurniawati, E., dan Susantiningsih, T. (2014). Pengaruh Pemberian Ekstrak Etanol Biji Jengkol (*Pithecellobium lobatum Benth.*) Terhadap Kadar Trigliserida Tikus Putih (*Rattus norvegicus*) Jantan Galur Sprague Dawley yang Diinduksi Aloksan. *Medical Journal of Lampung University*. Vol. 3(5): 85-93.
- Hiep, D. T. and Swick, R. A. (2017). Nutritional factors affecting egg production and eggshell quality in laying hens. *Journal of Animal Husbandry Sciences and Technics* 223: 15–20.
- Hilmi, M., Prastujati, A. U., an Khusnah, A. (2018). Penambahan Kulit Buah Naga Merah (*Hylocereus undatus*) dan Kunyit (*Curcuma domestica rhizomes*) sebagai Pigment Feed Additive terhadap Kualitas Telur Puyuh (*Cortunix cortunix japonica*). *Jurnal Sain Peternakan Indonesia*. Vol. 13 (2). DOI: 10.31186/jspi.id.13.2.111-118.
- Hornedo O R, Alvarez F M A, Cerezo A B, Garcia G I, Troncoso A M, and Garcia P M C (2017). Influence of Fermentation Process on the Anthocyanin Composition of Wine and Vinegar Elaborated from Strawberry. *Journal of Food Science*, 82(2), 364–372. DOI: <https://www.doi.org/10.1111/1750-3841.13624>
- Hsu, W. T., Chiang, C. J., Chao, Y. P., Chang, C. H., Lin, L. J., Yu, B., and Lee, T. T. (2015). Effects of recombinant lycopene dietary supplement on the egg quality and blood characteristics of laying quails. *Journal of bioscience and bioengineering*, 120(5), 539-543.
- Hwang, Y. P., Choi, J. H., Han, E. H., Kim, H. G., Wee, J. H., Jung, K. O., ... and Jeong, H. G. (2011). Purple Sweet Potato Anthocyanins Attenuate Hepatic

Lipid Accumulation Through Activating Adenosine Monophosphate-Activated Protein Kinase in Human Hepg2 Cells and Obese Mice. *Nutrition Research*, 31(12), 896-906.

Ibrahim M.A. and I. Jialal. (2019). Hypercholesterolemia. Statpearls Publishing; Treasure Island (FL): Feb 16, 2019.

Ibrahim, M. N. M. (1983). Physical, chemical, physico-chemical and biological treatments of crop residues. *The Utilization of Fibrous Agricultural Residues. Australian Government Publishing Service, Canberra, 1433*, 53-68.

Imsya, A., Laconi, E. B., Wiryawan, K. G., dan Widyastuti, Y. (2014). Biodegradasi Lignoselulosa dengan *Phanerochaete chrysosporium* terhadap Perubahan Nilai Gizi Pelelepah Sawit. *Jurnal Peternakan Sriwijaya*. Vol. 3, No.2, pp. 12-19.

Ingrath, W., Nugroho, W. A., dan Yulianingsih, R. (2015). Ekstraksi Pigmen Antosianin Dari Kulit Buah Naga Merah (*Hylocereus Costaricensis*) Sebagai Pewarna Alami Makanan Dengan Menggunakan Microwave (Kajian Waktu Pemanasan Dengan Microwave dan Penambahan Rasio Pelarut Aquades dan Asam Sitrat). *Jurnal Bioproses Komoditas Tropis*. Vol. 3(3),1-8.

ISB. (2002). *Hylocereus undatus* (Haw.) Brit. and Rose. Institute for Systematic Botany, USA.

Iskander, H., Yenice, G., Dokumacioglu, E., Kaynar, O., Hayirli, A., and Kaya, A. (2017). Comparison of the effects of dietary supplementation of flavonoids on laying hen performance, egg quality and egg nutrient profile. *British Poultry Science*. 58(5): 550–556.

Ismadi, M. (1993). *Biokimia : Suatu Pendekatan Berorientasi Kasus*. Yogyakarta : Gadjah Mada University Press.

Ismawati, B. (2011). Bobot, Komposisi Fisik, dan Kualitas Interior Telur Puyuh (*Coturnix-coturnix japonica*) yang Diberi Suplemen Omega-3. Skripsi. Departemen Ilmu Produksi dan Teknologi Peternakan, Fakultas Peternakan, Institut Petanian Bogor, Bogor.

Isnaeni, W. Fitriyah, A dan Setiati, N. (2010). Studi penggunaan prekursor hormon steroid dalam pakan terhadap kualitas reproduksi burung puyuh jantan (*Coturnix Coturnix Japonica*). *Jurnal Sains dan Teknologi*. 8(2): 1-10.

Isnawati, A. dan Adelina, R. (2015). Studi *Docking* Molekuler *Catechin Gallate*, *Epicatechin Gallate*, *Gallocatechin Gallate*, dan *Epigallocatechin Gallate* sebagai Obat Dislipidemia. *Jurnal Kefarmasian Indonesia*. 5(1): 25-32.

Jacob, J. P., Wilson, H. R., Miles, R. D., Butcher, G. D., and Mather, F. B. (2014). Factors affecting egg production in backyard chicken flocks. *US*

Department of Agriculture, UF/IFAS Extension Service, University of Florida, IFAS, Florida A & M University Cooperative Extension Program, and Boards of County Commissioners Cooperating. Nick T. Place, dean for UF/IFAS Extension (FACT SHEET PS-35FACT SHEET PS-35) <http://edis.ifas.ufl.edu>. Retrieved On, 25(4), 15.

- Jamilah, B., Shu, C. E., Kharidah, M., Dzulkifly, M. A., and Noranizan, A. (2011). Physico-chemical characteristics of red pitaya (*Hylocereus polyrhizus*) peel. *International Food Research Journal* 18: 279-286.
- Jaya, I. K. D. (2009). Studi pendahuluan tentang praktek budidaya dan potensi pengembangan tanaman buah naga (*Hylocereus spp.*) di Kabupaten Lombok Utara. In *Seminar Nasional "Kebijakan dan Penelitian di Bidang Pertanian untuk Pencapaian Kebutuhan Pangan dan Agroindustri"*. Fakultas Pertanian UNRAM (Vol. 14). P.11
- Jumjunidang, R., dan Muas, I. (2012). Outbreak penyakit busuk batang tanaman buah naga di Sumatera Barat. Laporan hasil survey OPT di sentra produksi buah naga Sumatera Barat. *Balitbu Tropika Solok*, 6.
- Kanha, N., Regenstein, J. M., Surawang, S., Pitchakarn, P., and Laokuldilok, T. (2021). Properties and kinetics of their in vitro release of anthocyanin-rich microcapsules produced through spray and freeze-drying complex coacervated double emulsions. *Food Chemistry* 340: 1-11.
- Kano, M., Takayanagi, T., Harada, K., Makino, K., and Ishikawa, F. (2005). Antioxidative activity of antiosianins from purple sweet potato, *Ipomoea batatas* cultivar Ayamurasaki. *Biosci Biotechnol Biochem* 69: 979-988.
- Karabulut, K. Eren, M. B., Uyanik, and Kocaodlu. G. (2006). The Effect of dietary baron supplementation on performance, carcass and serum lipid in Japanese quails. *Journal of Animal and Veterinary Advances*. 5(12): 1105-1108.
- Karney, A., Brągoszewska, H., Soluch, L., and Ołtarzewski, M. (2017). Risk Factors for Atherosclerosis in Obese Children Aged 6-12 Years. *Dev Period Med.*, 21(3):259-265.
- Kaspers, B. (2016). An Egg a Day the Physiology of Egg Formation. *Lohmann Information*, 50 (2): 12-17.
- Katipana, N. G. F., D. Kana Hau., J. Nulik., J. I. Manafe, dan D. Amalo. (2006). Sifat Fisik dan Komposisi Kimia Standing Hay Rumput Kume yang Diolah dengan Cuka Makan dan Urea. *Prosiding Seminar Nasional Komunikasi Hasil-hasil Penelitian Pertanian Bidang Tanaman Pangan, Perkebunan dan Peternakan Dalam Sistem Usahatani Lahan Kering*. BBP2TP, Bogor. h. 376-382.
- Katzung, B. G. (1997). *Farmakologi dasar dan klinik*. edisi ke-6. penerjemah staf dosen farmakologi fk universitas sriwijaya, egc buku kedokteran, Jakarta.

- Keshavarz, K. (2003). Effects of reducing dietary protein, methionine, choline, folic acid, and vitamin B12 during the late stages of the egg production cycle on performance and eggshell quality. *Poultry science*, 82(9), 1407-1414.
- Ketaren, P. P. (2010). Kebutuhan gizi ternak unggas di Indonesia. *Wartazoa*, 20(4), 172-180.
- Ketta, M. and E. Tůmová. (2016). Eggshell Structure, Measurements, and Quality-Affecting Factors In Laying Hens: A Review. *Czech J. Anim. Sci.*, 61, 2016 (7): 299–309. Doi: 10.17221/46/2015-CJAS.
- Khalida, Y. (2010). A Comparative Study on the Extraction of Betacyanin in the Peel and Flesh of Dragon Fruit. Faculty of Chemical and Natural Resources Engineering, Universiti Malaysia Pahang. Malaysia.
- Khazaei K, Jafari SM, Ghorbani M, and Hemmati KA (2014). Application of maltodextrin and gum Arabic in microencapsulation of saffron petal's anthocyanins and evaluating their storage stability and color. *Carbohydrate Polymers*, 105, 57-62. DOI: <https://www.doi.org/10.1016/j.carbpol.2014.01.042>
- Khosravinia, H. (2007). Preference of broiler for color of lighting and feed. *The Journal of Poultry Science* 44: 213–219.
- King, A. J., Griffin, J. K., and Roslan, F. (2014). In vivo and in vitro addition of dried olive extract in poultry. *Journal of agricultural and food chemistry*, 62(31), 7915-7919.
- Kompiang, I. P. (2009). Pemanfaatan mikroorganisme sebagai probiotik untuk meningkatkan produksi ternak unggas di Indonesia. *Pengembangan Inovasi Pertanian*, 2(3), 177-191.
- Koolman, J., and Roehm, K. H. (2005). *Color Atlas of Biochemistry*. 2th ed. New York: Georg Thieme Verlag. p.164-162.
- Kristanto, D. (2008). Buah Naga Pembudidayaan di Pot dan di Kebun. Penebar Swadaya. Jakarta. 92 hal.
- Kuietche, H. M., Kana, J. R., Defang, H. F., Tadondjou, C. D. A., Yemdjie, D. D. M., and Tegua, A. (2014). Effect of dietary energy level on growth performance and morphometric parameters of local barred chickens at the starter phase. *International Journal of Biological and Chemical Sciences*, 8(3), 882-890.
- Kul, S., and Seker, I. (2004). Phenotypic Correlation Between Some External and Internal Egg Quality Traits in The Japanese Quails (*Coturnix-coturnix japonica*). *International Journal of Poultry Science*, 3: 400-405.
- Kulshreshtha, G., B. Rathgeber, G. Stratton, N. Thomas, F. Evans, A. Critchley, J. Hafting, and B. Prithviraj. (2014). Feed supplementation with red

seaweeds, *Chondrus crispus* and *Sarcodiotheca gaudichaudii*, affects performa produksince, egg quality, and gut microbiota of layer hens. *Poultry Science* 93: 2991–3001.

Kumari, A. (2017). *Sweet Biochemistry: Remembering Structures, Cycles, and Pathways by Mnemonics*. Cholesterol Synthesis. Academic Press. Chapter 7. 27-33. Doi: 10.1016/B978-0-12-814453-4.00007-8.

Kurilich, A. C., Clevidence, B. A., and Britz, S. J. (2005). Plasma and urine responses are lower for acylated versus nonacylated anthocyanins from raw and cooked purple carrots. *J Agr Food Chem* 53:6537–6542.

Lachman, J., Hamouz, K., Orsak, M., Pivec, V., Hejmankova, K., Pazderu, K., Dvorak, P., Cepl, J. (2012) Impact of selected factors - Cultivar, storage, cooking and baking on the content of anthocyanins in coloured-flesh potatoes. *Food Chemistry*. 133 (4), 1107–1116. DOI:10.1016/j.foodchem.2011.07.077.

Lanang, S. (2013). Kumpulan Koleksi Artikel Pertanian (clipping). http://selaparanglanang.blogspot.com/2013_04_01_archive.html. Diakses tanggal 05 Desember 2013 jam 14.22 WIB.

Landecker, E. M. (2001). *Fundamentals of the fungi*. Prentice Hall International Inc. New Jersey.

Lap, L. N. T., and Chau, N. M. (2014). Increasing market acces for selected tropical fruits through value chain improvements in Vietnam. In *Workshop on Increasing Production and Market Acces for Tropical Fruit in Southeast Asia*. Southern Horticultural Research Institute (SOFRI) Long Dinh, Chau Thanh, Tien Giang, Vietnam (pp. 35-58).

Lapornik B, Prosek M, and Wondra AG (2005). Comparison of Extracts Prepared from Plant By-products Using Different Solvents and Extraction Time. *Journal of Food and Engineering*, 71:214-222. DOI: <https://www.doi.org/10.1016/j.jfoodeng.2004.10.036>

Lassen, S. (1965). Technological Problems in the Heat Treatment of Requiring More Knowledge from Fundamental Research, In: *The Technology nFsh Utilization*, Kreuzer, Ed., Fishing News (Books), London.

Latif, S., Suprijatna, E. dan Sunarti, D. (2017). Performans produksi puyuh yang diberi ransum tepung limbah udang fermentasi. *J. Ilmu-Ilmu Peternakan*. 27(3):44-53.

Latifa, R. dan Sarmanu. (2008). Manipulasi Reproduksi Pada Itik Petelur Afkir Dengan {regnant Mare Serum Gonadotropin. *J. Penelitian Med. Eksakta*. 7(1): 83-91.

Leeson, S., and Summer, J. D. (2001). *Scott's Nutrition Of The Chicken*. 4th. Ed. University. Book P.O.Box 1326 Guelph, Ontario, Canada.

- Lemos, M.A., Aliyu, M.M. and Hungerford, G. (2015). Influence of cooking on the levels of bioactive compounds in Purple Majesty potato observed via chemical and spectroscopic means. 173, 462–467. DOI:10.1016/j.foodchem.2014.10.064.
- Lestario, L. N., Rahayuni, E., and Timotius, K. H. (2011). Kandungan antosianin dan iden-tifikasi antosianidin dari kulit buah jenitri (*Elaeocarpus angustifolius blume*). AGRITECH. 31(2):93-101
- Lianiwati, B. V. (2011). Pemberian Ekstrak Buah Naga Merah (*Hylocereus polyrhizus*) Menurunkan kadar F2 Isoprostan pada Tikus Putih Jantan (Albino rat) yang Diberi Aktivitas Berlebih. Thesis. Fakultas Kedokteran. Universitas Udayana. Denpasar.
- Lidya, L. E. A. (2004). Performan Puyuh Fase Produksi yang Diberi Ransum Terbatas pada Pemeliharaan Sistem Cage. [Tesis]. Universitas Padjajaran. Bandung.
- Lila, M.A. (2004). "Anthocyanins and Human Health: An In Vitro Investigative Approach". *J Biomed Biotechnol* 5: 306–313. doi:10.1155/S111072430440401X.
- Lim, T. K. (2012). *Hylocereus polyrhizus*. In L. T. K., Edible Medicinal and Non-Medicinal Plants (hal. 643–649)
- Limsitthichaikoon, S., Khampaenjiraroach, B., Damrongrungruang, T., Limphirat, W., Thapphasaraphong, S., and Priprem, A. (2018). Topical Oral Wound Healing Potential of Anthocyanin Complex: Animal and Clinical Studies. *Ther. Deliv.* 9(5), 359–374. Doi: 10.4155/tde-2017-0123.
- Lindung. (2015). Teknologi Mikroorganisme EM4 dan Mol. Kementerian Pertanian Balai Pelatihan Pertanian. Jambi.
- Listiyowati E. dan Roosпитasari K. (2000). Puyuh Tata Laksana Budidaya secara Komersil. Jakarta: Penebar Swadaya
- Lloyd-Jones, D.M, D.C. Goff, and N.J. Stone. (2016). Treatment of Blood Cholesterol to Reduce Risk for Atherosclerotic Cardiovascular Disease. *Ann. Intern. Med.* 164(2):135-6.
- Lorgeril, M., Renaud, S., Mamelle, N., Salen, P., Martin, J. L., and Moujoud, I. (1994). Mediterranean Alpha Linolic Acid Rich Diet in Secondary Prevention of Coronary Heart Disease. *Lancet.* 343:1454–9.
- Macdougall, D. B. (2002). *Colour in Food: Improving Quality*. CRC Press, Boca Raton.
- Mahata, M. E. (2019). Pengolahan Limbah Nenas Dengan Mikroorganisme Lokal Untuk Pakan Ternak Unggas. Pidato Orasi Pengukuhan Guru Besar. Unpublish. Fakultas Peternakan. Universitas Andalas. Padang.

- Mahata, M. E., J. Manik, M. Taufik, Y. Rizal, and Ardi. (2016). Effect of Different Combinations of Unboiled and Boiled Tomato Waste in Diet on Performance, Internal Organ Development and Serum Lipid Profile of Broiler Chicken. *International Journal of Poultry Science* 15 (7): 283-286.
- Mahata, M. E., Rizal, Y., and Wu, G. (2012). Improving the Nutrient Quality of Juice Waste Mixture by Steam Pressure for Poultry Diet. *Pakistan Journal of Nutrition* 11 (2): 172-175. DOI: 10.3923/pjn.2012.172.175
- Mahata, M. E., Mahlil, Y., Fajri, Y., Aditia, R., and Yose, R. (2014). The Utilization of Red Dragon Fruit (*Hylocereus polyrhizus*) Peel as Broiler Feed. Abstract summary. In International Congress and general meeting. Society for Southeast Asian Agricultural Science (ISSAAS) in Collaboration with SAEDA. Tokyo University of Agriculture and JSTA. Tokyo.
- Mahata, M. E., Mahlil, Y., Fajri, Y., Aditiya, R., Hendro, A., Zahara, A., and Rizal, Y. (2015). The Effect of Dragon Fruit (*Hylocereus polyrhizus*) Peel on Broiler Thigh Meat Quality and Organ development. *Eeg Meat Symposia. Book of Abstract.Nutrition and Meat Quality. Nantes. World's Poultry Science Journal*. Vol. 71. Supplement 1. P. 81
- Mahfudz, L. D. (2006). Efektifitas Oncom Ampas Tahu Sebagai Bahan Pakan Ayam Pedaging. *Animal Production*. Vol 8: 108-114.
- Mahlil Y, Husmaini, Warnita, Mirzah, and Mahata ME (2018a). Using physical and chemical methods to improve the nutrient quality of dragon fruit (*Hylocereus polyrhizus*) peel for use as feed for laying hens. *International Journal of Poultry Science*, 17 (2): 51-56. DOI: <https://www.doi.org/10.3923/ijps.2018.51.56>
- Mahlil Y, Husmaini, Warnita, Mirzah, and Mahata ME (2018b). Improving of Dragon Fruit Peel Wastes Nutrient Quality by Fermentation with Local Microorganism from Bamboo Sprout for Laying Hens Feed. Abstract summary, *Proceeding of conference, 23-24 August, 2018. International conference on basic sciences and its applications (ICBSA)*. Hotel Grand Inna Muaro. Padang. Available at: <https://drive.google.com/file/d/1XjdY8zQkRSA0OxjjEHow-SRu9FkQXSZU/view?usp=sharing>; Internet; accessed 21 October 2019.
- Mahlil, Y. (2015). Pengaruh Penggunaan Tepung Kulit Buah Naga Daging Merah (*Hylocereus polyrhizus*) Dalam Ransum Terhadap Profil Kandungan Lemak Darah Broiler. SKRIPSI. Fakultas Peternakan Universitas Andalas. Padang.
- Maknun, L., Sri, K dan Isna, M. (2015). Performans produksi burung puyuh (*Coturnix-coturnix japonica*) dengan perlakuan tepung limbah penetasan telur puyuh. *Jurnal Ilmu-ilmu Peternakan*. 25(3): 53-58. DOI: <http://dx.doi.org/10.21776/ub.jiip.2015.025.03.07>

- Mamilianti, W. dan Yusroni, A. (2013). Pengaruh mol (mikroorganisme lokal) terhadap penggemukan sapi potong sebagai upaya peningkatan pendapatan peternak. <http://jurnal.yudharta.ac.id/wp-content/uploads/2013/10/6-WennyMamiliantiPENGARUH-MOL-Mikroorganisme-Lokal-TERHADAP-PENGGEMUKAN-SAPI-POTONG-SEBAGAI-UPAYA-PENINGKATAN-PENDAPATAN-PETERNAK.pdf>
- Mardiansyah, A. (2013). Performa Produksi dan Organ Dalam Puyuh Diberi Pakan Mengandung Dedak Gandum dan Tepung daun Mengkudu. Skripsi. Fakultas Peternakan. Institute Pertanian Bogor.
- Marjuki. (2013). Metode pengolahan limbah untuk pakan ternak (Wastes Processing Method to animal feed). Universitas brawijaya, malang.
- Markakis, P. (1982). Antosianins as Food Additives. Di dalam Antosianins as Food Colors. Markakis, P. (ed). 1982. Academic Press. New York.
- Maryuni, S. S. dan C. H. Wibowo. (2005). Pengaruh Kandungan Lisin dan Energi Metabolis dalam Ransum yang Mengandung Ubikayu Fermentasi terhadap Konsumsi Ransum dan Lemak Ayam Broiler. *J. Indon.Trop. Anim. Agric.* 30(1): 26-33.
- Maspary. (2012). Membuat Mol Rebung Bambu. <http://www.gerbangpertanian.com/2012/05/membuat-mol-rebung-bambu.html>. Diakses tanggal 17 Januari 2017.
- Matsumoto, H., Inaba, H., and Kishi, M. (2001). Orally administered delphinidin 3-rutinoside and cyanidin 3-rutinoside are directly absorbed in rats and humans and appear in the blood as the intact forms. *J Agr Food Chem* 49:1546–1551.
- Matuschek, M. C., Hendriks, W. H., and Mcghie, T. K. (2006). The jejunum is the main site of absorption for anthocyanins in mice. *J Nutr Biochem* 17:31–36.
- Mazza, G., Kay, C. D., and Cottrell, T. (2002). Absorption of anthocyanins from blueberries and serum antioxidant status in human subjects. *J Agr Food Chem* 50:7731–7737.
- McLeod, M.G., Whitehead, C.C., Griffin, H.D. and Jewitt, T.R. (1988). Energi and nitrogen retention and loss broiler chickens genetically selected for leanness and fatness. *Brit. Poult.Sci.*67: 285-292.
- Meliandasari, D., Dwiloka, B., dan Suprijatna, E. (2014). Profil perlemakan darah ayam broiler yang diberi pakan tepung daun kayambang (*Salvinia molesta*). *Jurnal Ilmu-Ilmu Peternakan*, 24(1), 45-55.
- Milbury, P. E., Cao, G. H., and Prior, R. L. (2002). Bioavailability of elderberry anthocyanins. *Mech Ageing Dev* 123:997–1006.

- Millan, J., Pinto, X., Munoz, A., Zuniga, M., Prat, J. R., Pallardo, L. F. (2009). Vascular Health and Risk Management. Dove press journal. 5: 757-65.
- Mirnawati, Sukamto, B., dan Yuniato, V. D. (2013). Kecernaan Protein, Retensi Nitrogen dan Massa Protein Daging Ayam Broiler yang Diberi Ransum Daun Murbei (*Morus alba* L.) yang Difermentasi Dengan Cairan Rumen. JITP. Vol. 3(1): 25-32.
- Mirzah dan Muis, H. (2016). Biokonversi Limbah Kulit Ubi Kayu Menjadi Pakan Unggas Sumber Energi Menggunakan *Bacillus amyloliquefaciens*. Jurnal Ilmu Ternak. (Bioconversion of Cassava Peel Become Poultry Feed Energy Sources Using *Bacillus amyloliquefaciens*). Vol.16(2): 59-70
- Mirzah. (1997). Pengaruh Pengolahan Tepung Limbah Udang Dengan Tekanan Uap Panas terhadap Kualitas dan Pemanfaatannya Dalam Ransum Ayam Broiler. Disertasi, Program Pascasarjana. Universitas Padjadjaran, Bandung.
- Mirzah. (2006). Efek pemanasan limbah udang yang direndam dalam air abu sekam terhadap kandungan nutrisi dan energi metabolis pakan. Jurnal Peternakan 3: 47 – 54.
- Montgomery, R., Dryer, R.L., Conway, T.W., dan Spector, A.A. (1993). Biokimia- suatu pendekatan berorientasi kasus. terj. dari biochemistry: a case- oriented approach, oleh n.ismadi. Gadjah Mada University press. Yogyakarta.
- Moon Y. S. 2018. Lipid Metabolism and Fatty Liver in Poultry. Korean J.Poult.Sci.Vol.45, No.2, 109-118. Doi:10.5536/KJPS.2018.45.2.109
- Mortensen, A. (2006). Carotenoids and other pigment as natural colorant. Pure Appl. Chem., Vol. 78, No. 8, pp. 1477-1491
- Moula, N., Sadoudi, A., Touazi, L., Leroy, P., and Geda, F. (2019). Effects of stinging nettle (*Urtica dioica*) powder on laying performance, egg quality, and serum biochemical parameters of Japanese quails. *Animal Nutrition*, 5(4), 410-415.
- Moura, A.M.A., Takata, F.N., Nascimento, G.R., Silva, A.F., Melo, T.V., and Cecon, P.R. (2011). Pigmentantes naturais em rações à base de sorgo para codornas japonesas em postura. *Revista Brasileira de Zootecnia*. 40:2443-2449.
- Muas, I. dan Jumjunidang. (2015). Status of dragon fruit cultivation and marketing in Indonesia. Workshop on improving pitaya production and marketing. International workshop proceedings. 7-9 September 2015. Fengshan, Kaohsiung, Taiwan. p. 19-29.
- Muchtadi, D. (2001). Sayuran sebagai sumber serat pangan untuk mencegah timbulnya penyakit degeneratif. *Jurnal Teknologi dan Industri Pangan*, 12(1), 61-71.

- Muchtadi, R. dan Ayustaningwarno, F. (2010). *Tekhnologi Proses Pengolahan Pangan*. Bandung: Alfabeta.
- Muhiddin, N., Juli, N., dan Aryantha, I. N. P. (2000). Peningkatan kandungan protein kulit umbi ubi kayu melalui proses fermentasi. *Jurnal Matematika dan Sains*. 6 (1): 1-12.
- Mulyawanti I, Budijanto S, and Yasni S (2018). Stability of Anthocyanin During Processing, Storage and Simulated Digestion of Purple Sweet Potato Pasta. *Indonesian Journal of Agricultural Science*, 19(1): 1-8. DOI: <https://www.doi.org/10.21082/ijas.v.19.n1.2018.p.1-8>.
- Murni, R. (2008). *Buku Ajar Tekhnologi Pemanfaatan Limbah untuk Pakan. Laboratorium Makanan Ternak*. Jambi: Universitas Jambi [Online].
- Murray, R. dan Granner, D. K. (2003). *Biokimia Harper*, edisi 25. Jakarta: Penerbit Buku Kedokteran EGC.
- Murray, R. K., Granner, D. K., and Rodwell, V. W. (2009). *Biokimia Harper*. Jakarta: 225-49.
- Murray, R.K., D.K. Granner, P.A. Mayes and V.W. Rodwell. (2012). *Biokimia Harper (Harper's Illustrated Biochemistry)*. Edisi 27. Alih Bahasa Oleh Brahm U. Pendit. Penerbit Buku Kedokteran EGC. Hal 225-254
- Mursyid, M. (2015). Penurunan Kadar Serat Pangan, Pengaruh Panas dan Reaksi Maillard. <http://mursyid1987.blogspot.co.id/2014/01/penurunan-kadar-serat-pangan-pengaruh.html>. Diakses 7 Oktober 2016.
- Mustika, A.I.C., Sjojfan, O., dan Widodo, E. (2014). Pengaruh Penambahan Tepung Kulit Buah Naga Merah (*Hylocereus Polyrhizus*) dalam Pakan terhadap Penampilan Produksi Burung Puyuh (*Coturnix Japonica*). Skripsi. Universitas Brawijaya Malang
- Nastiti, R. A., Hermana, W., dan Mutia, R. (2014). Penggunaan Dedak Gandum Kasar (Wheat Bran) Sebagai Pengganti Jagung Dengan Kombinasi Tepung Daun Mengkudu (*Morinda citrifolia*) Untuk Menghasilkan Telur Puyuh Sehat Rendah Kolesterol dan Kaya Vitamin A. *Buletin Makanan Ternak*. Vol. 101 (1): 1-12.
- Nasution, A. S. (2017). Kualitas Telur Pertama Burung Puyuh (*Coturnix-coturnix japonica*) Dengan Pemberian Tepung Daun Pepaya (*Carica papaya L*) Dalam Ransum. *Jurnal Peternakan*. Vol 1(1): 34-41.
- National Cholesterol Education Program (NCEP). (2002). *Third Report of NCEP Expert Panel on Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults (Adult Treatment Panel III), Final Report*. National Cholesterol Education Program National Heart, Lung, and Blood Institute, National Institutes of Health, NIH Publication No. 02-5215: 1-10.

- National Research Council (NRC). (1984). Nutrient Requirement of Poultry. National Academy Press, Washington D.C.
- National Research Council. (1994). Nutrient Requirements of Poultry: Ninth Revised Edition, 1994. Washington, DC: The National Academies Press. <https://doi.org/10.17226/2114>.
- Nelson, N. (1944). A Photometric adaptation of the Somogyi method for the determination of glucose. *J. Biol. Chem*, 153: 375-380.
- Nevel, C. J. V., and Demeyer, D. I. (1988). Manipulation of rumen fermentation. In *The Rumen Microbial Ecosystem*. Ed. by Hobson, P.N. pp 387-443. Elsevier Applied Science, London and New York.
- Nicholls, S.J., Adam, J. and Nelson. (2019). Hdl and Cardiovascular Disease. *Pathology* (February 2019) 51(2), Pp. 142–147. Doi: <https://doi.org/10.1016/j.pathol.2018.10.017>.
- Nie Q, Feng L, Hu J, Wang S, Chen H, Huang X, Nie S, Xiong T, and Xie M (2017). Effect of fermentation and sterilization on anthocyanins in blueberry. *Journal of the Science of Food and Agriculture*, 97 (5): 1459-1466. DOI: <https://www.doi.org/10.1002/jsfa.7885>
- Niekerk, T. V. (2014). Egg Quality. Consortium of the LowInputBreeds project, c/ Newcastle University, UK, and Research Institute of OrganicAgriculture (FiBL), Frick, Switzerland
- North, M. O and Bell, D. D. (1990). *Commercial Chicken Production Manual*. The 3rd Edition. Chapman and Hall. New York.
- NPDC. (2000). The Plants database (ver 5.1.1). National Plant Data Centre, NRCS, USDA, Baton Rouge, LA 70874-4490, USA.
- Nugroho, A. (2013). *Meraup untung budidaya rebung*. Pustaka Baru Press. Yogyakarta. Hal: 178.
- Nuraini, Mahata, M. E. and Nirwansyah. (2013). Respon of broiler Fed Cocoa Pod Fermented by *Phanerochaete chrysosporium* and *Monascus purpureus*. *Pakistan Journal of Nutrition*. 12(9): 886-888
- Nuraini, Mirzah, and Djulardi, A. (2017). Marigold flower extract as a feed additive in the poultry diet: effects on laying quail performance and egg quality. *International Journal of Poultry Science*, 16, pp.11-15.
- Okibe, F.G., B. Jubril, E.D. Paul, G.A. Shallangwa and Y.A. Dallatu, (2016). Effect of cooking methods on proximate and mineral composition of fluted pumpkin (*Telfairia occidentalis*) leaves. *Int. J. Biochem. Res. Rev.*, 9: 1-7.
- Onyeike, E.N., E.A. Anyalogbu, and M.O. Monanu. (2015). Effect of Heat Processing on The Proximate Composition and Energy Values of African

Walnut (*Plukenetiaconophora*) and African Elemi (*Canariumschweinfurthii*) Consumed as Masticatories in Nigeria. International Journal of Scientific and Technology Research Volume 4, Issue 08, August 2015 Issn 2277-8616

- Pane, D., dan Pakpahan, R. (2019). Pengaruh Fermentasi Kulit Buah Naga Dengan Kapang *Neurospora Crassa* Terhadap Kandungan Lemak Kasar, Kalsium (Ca) Dan Posfor (P). *Jurnal Ternak*. 10 (2): 50-54. DOI: <http://doi.org/10.30736/ternak>
- Parizadian, B., Ahangari, Y. J., Sharg, M. S., and Sardarzadeh, A. (2011). Effect of Different Level of L-carnitine Supplementation on Egg Quality and Blood Parameters of Laying Japanese Quail. *International Journal of Poultry Science*. Vol. 10 (8): 621-625.
- Park, S. (2002). *Cacti: Biology and uses*. University of California Press. ISBN 978-0-520-23157-3. Hal.68-70
- Paryanta, Sudrajat, D., dan Anggraeni. (2019). Kualitas Telur Burung Puyuh (*Coturnix-coturnix japonica*) yang Diberi Larutan Daun Kelor (*Moringa oleifera* L.). *Jurnal Peternakan Nusantara*. Vol. 5 (1): 13-19.
- Pasaribu, D.W. (2011). Pengaruh GA3 Terhadap Pembentukan Bunga dan Buah Tanaman Buah Naga Super Merah (*Hylocereus costaricensis* (Web.) Britton & Rose). [Skripsi]. Fakultas Pertanian Universitas Andalas. Padang.
- Pascua, L. T., Pascua, M. E., and Gabriel, M. L. S. (2015). Dragon Fruit Production and Marketing in the Philippines: Its Status, Constraints and Prospects. *Improving pitaya production and marketing. Food and Fertilizer Technology Center, Taipei, Taiwan*, 47-63.
- Passamonti, S., Terdoslavich, M., and Franca, R. (2009). Bioavailability of flavonoids: A review of their membrane transport and the function of bilitranslocase in animal and plant organisms. *Curr Drug Metab* 10:369–394.
- Passamonti, S., Vrhovsek, U., and Vanzo, A. (2003). The stomach as a site for anthocyanins absorption from food. *FEBS Lett* 544:210–213.
- Passamonti, S., Vrhovsek, U., and Vanzo, A. (2005). Fast access of some grape pigments to the brain. *J Agr Food Chem* 53:7029–7034.
- Pearce, G.R. (1982). Plant Cell Wall Structure and The Effect of Pre-Treatment on Digestibility of Fibrous Residue. Proc. of the FAO/ILCA Workshop held in Dakar, Sinegal
- Phatcharaporn W, Siripan J and Sorada W. (2009). The effects of banana peel preparations on the properties of banana peel dietary fibre concentrate. *Songklanakarinn Journal of Science and Technology*. 31 (6), 605-611.

- Piliang, W.G., dan Djojosoebagio S. (2006). Fisiologi Nutrisi Volume I. Ed ke-2. Bogor (ID): IPB Pr
- Pinchasov, Y., Mendonca, C. X., and Jensen, L. S. (1990). Broiler chick response to low protein diets supplemented with synthetic amino acids. *Poultry Science*, 69(11), 1950-1955.
- Polat, R., Tarhan, S., Cetin, M., and Atay, U. (2007). Mechanical Behaviour Under Compression Loading and Some Physical Parameters of Japanese Quail (*Coturnix-coturnix japonica*) eggs. *Czech Journal of Animal Science*. Vol. 52 (2): 50-56. DOI: 10.17221/2262-CJAS
- Pond, W. G., Church, D. C., and Pond, K. R. P. A. (2005). Basic Animal Nutrition and Feeding. 5th Edition. New York. John Willey and Sons.
- Pradipta, R., Wiryawan, S. I., dan Sugiritama, I. W. (2019). Pengaruh ekstrak kulit buah naga merah (*Hylocereus polyrhizus*) terhadap kadar malondialdehyde (MDA) Paru pada tikus yang diberi paparan asap rokok. *Intisari Sains Medis* 2019; 10(3): 806-810 doi: 10.15562/ism.v10i3.484.
- Pramono, Y. B., Rahayu, E. S., Suparno dan Utami, T. (2007). Perubahan mikrobiologis, fisik dan kimia cairan bakal petis daging selama fermentasi kering. *Jurnal Pengembangan Peternakan Tropis*. Vol: 32 (4): 213-221.
- Pratama, D. (2016). Kesesuaian Lahan di Desa Srigading Kecamatan Sanden Kabupaten Bantul Untuk Tanaman Buah Naga (*Hylocereus undatus*). *Geo Educasia-S1*, 1(8).
- Pratidina, W., (2010). Nilai Retensi Nitrogen dan Energi Metabolis Ransum Mengandung Tepung Umbi Teratai Pada Ayam Arab. Skripsi. Fakultas Peternakan. Institut Pertanian Bogor.
- Priatni, S., and Pradita, A. (2015). Stability Study of Betacyanin Extract from Red Dragon Fruit (*Hylocereus polyrhizus*) Peels. *Procedia Chemistry*. 16: 438–444. DOI: 10.1016/j.proche.2015.12.076
- Prior, R. L., and Wu, X. L. (2006). Anthocyanins: Structural characteristics that result in unique metabolic patterns and biological activities. *Free Radical Res* 40:1014–1028.
- Purba, K. H. F. (2013). Potensi Buah Naga Dalam Pengembangannya di Indonesia. <http://www.heropurba.blogspot.com>. Diakses pada tanggal 23 Januari 2017.
- Putra, S. H. J. (2018). Profil High Density Lipoprotein (HDL) dan Low Density Lipoprotein (LDL) Serum Puyuh Jepang (*Coturnix-coturnix japonica* L.) Setelah Pemberian Suplemen Serbuk Kunyit (*Curcuma longa* L.). *Biota* 11(1): 26-39.
- Qin Y, Xia M, Ma J, Hao YT, Liu J, Mou HY, Cao L, Ling WH. (2009). Anthocyanin Supplementation Improves Serum LDL-and HDL Cholesterol

Concentrations Associated with The Inhibition of Cholesteryl Ester Transfer Protein in Dyslipidemic Subject. *The American Journal of Clinical Nutrition*. 90(3):485-492

- Rahayu, S. (2017). Pengaruh Kombinasi Tepung Tomat (*Solanum Lycopersicum*) Dan Tepung Kunyit (*Curcuma Longa L*) Sebagai Feed Additive Terhadap Kadar Lemak Dan Kolesterol Telur Puyuh (*Coturnix Coturnix Japonica*). Thesis. Universitas Brawijaya.
- Rahmati, S., Kang, O. L., Momeni, E., and Ramli, N. (2012). Morphological studies on pectin extracted from dragon fruit peel using microwave and conventional extraction methods. *Proceedings, International Conference on Halal Gums 2012 (ICoHaG 2012)*, PARKROYAL Penang Resort, Penang, Malaysia
- Rakonjac S., Bogosavljević-Bošković, S., Pavlovski, Z., Škrbić, Z. Dosković, V., Petrović, M. D., and Petričević, V. (2014). Laying Hen Rearing Systems: A Review of Major Production Results and Egg Quality Traits. *World's Poultry Science Journal*. 70: 93-104. Doi:10.1017/S0043933914000087.
- Rasyaf, M. (1990). *Beternak Ayam Pedaging*. Cet. Ke-13 Pt. Penebar Swadaya, Jakarta
- Rasyaf, M. (1994). *Beternak Ayam Pedaging*. Penebar Swadaya. Jakarta.
- Rasyaf, M. (2002). *Beternak Ayam Petelur*. Penebar Swadaya. Jakarta.
- Rivera, J., Ordorica, C. and Wesche, P. (1998). Changes in Antosianin Concentration in Lychee (*Litchi chinensis* Sonn) Pericarp During Maturation. *J. Food Chem* 65 (1999) 195-200.
- Rizal, Y. (2006). *Ilmu Nutrisi Unggas*. Andalas University Press. Padang.
- Roberts, J.R. (2004). Factors Affecting Egg Internal Quality and Egg Shell Quality of Laying Hens. *Journal of Poultry Science* 41: 161-177.
- Romanoff, A. L. and Romanoff, A. (1963). *The Avian Egg*. John Wiley and Sons Inc. Ny.
- Rosa, R.A., Malik, M. A., Prakoso, I. G., Djati, R. W. and Purnamawati, Y. (2013). Suplemen pakan berbasis limbah kulit buah naga (*Hylocereus undatus*) guna menghasilkan telur puyuh yang kaya vitamin A dan rendah kolesterol. Institut Pertanian Bogor, Bogor.
- Saadullah, M., Haque, M., and Dolberg, F. (1981). Treatment of rice straw with lime. *Trop Anim Prod*, 6(2), 116-120.
- Samosir, A., dan Gusniwati. (2014). Pengaruh mol rebung bambu terhadap pertumbuhan bibit kelapa sawit (*Elaeis guineensis* Jacq) DI PRE

NURSERY. *Program Studi Agroekoteknologi, Fakultas Pertanian Universitas Jambi* 3(1): 8-16.

- Sarandani, L. D. (2016). Pengaruh Penggunaan Kiambang (*Salvinia Molesta*) Fermentasi Dalam Ransum Terhadap Karakteristik Organ Pencernaan Itik Lokal Jantan. Skripsi. Fakultas Peternakan Dan Pertanian Universitas Diponegoro Semarang
- Saroh, S. Y., Sulistiyanto, B., Christiyanto, M., dan Utama, C. S. (2019). Pengaruh Lama Pengukusan dan Penambahan Level Kadar Air yang Berbeda Terhadap Uji Proksimat dan Kecernaan Pada Bungkil Kedelai, Gaplek Dan Pollard. *Jurnal Litbang Provinsi Jawa Tengah*, 17(1), 77-86.
- Scott, M. L. Neheim, M., and Young, R. J. (1982). Nutrition of the Chicken. 3rd ed. M. L. Scott and Associates Publisher Ithaca, New York.
- Setiawan, B. (2017). Kandungan Protein Kasar dan Serat Kasar Dedak Padi yang Difermentasi dengan Mikroorganisme Lokal. (Skripsi). Fakultas Peternakan, Universitas Hasanuddin, Makassar.
- Setiyantari, Y. (2003). Pemberian eceng gondok (*Eichhornia crassipes*), dedak gandum kasar dan minyak ikan hiu terhadap performan periode pertumbuhan burung puyuh (*Coturnix-coturnix japonica*). Skripsi. Institut Pertanian Bogor. Bogor.
- Setyawan, A.E., Sudjarwo, E. Widodo, E. dan Prayogi, H. (2012). Pengaruh penambahan limbah teh dalam pakan terhadap penampilan produksi telur burung puyuh. *Jurnal Ilmu-ilmu Peternakan*. 23:7-10.
- Shenatmoko, A. D., Kurniawan, A., Gebby, C. V., Ratriyanto, A., Indreswari, R., dan Dewanti, R. (2013). Pengaruh Suplementasi Betain terhadap Beberapa Parameter Lipida dan Protein Darah pada Puyuh. *Sains Peternakan: Jurnal Penelitian Ilmu Peternakan*, 11(1), 14-18.
- Sherwood, L. (2001). *Fisiologi Manusia: dari Sel ke Sistem*. Ed. 2. Jakarta:289-91.
- Shi *et al.*, (2004). Phytate from edible beans: chemistry, processing and health benefits. *Food, Agriculture and Environment* Vol.2 (1): 49-58. WFL Publisher Science and Technology.
- Shiddiqi, Q. Y. A., Apriyani, R. F., Kusuma, D., dan Karisma, A. D. (2021). Ekstraksi Senyawa Antosianin Dari Kulit Buah Naga Merah (*Hylocereus polyrhizus*) Menggunakan Metode Microwave Assisted Hydrodistillation (MAHD). *Jurnal Chemurgy*, Vol. 05(1), 30-37.
- Shulman, G. I. (2000). Insulin Resistance Cellular Mechanisms of Insulin Resistance. *J. Clin. Invest.* Vol. 106(2):171-6.

- Sibbald, I. R. (1986). The TME System of Feed Evaluation: Methodology, feed composition data and bibliography. Animal Research Centre, Ottawa, Ontario.
- Sibbald, I. R. and M. S. Wolynetz. (1985). Estimates of retained nitrogen used to correct estimates of bioavailable energy. Poultr. Sci. 64: 1506-1513.
- Sibbald, I. R. (1976). A Bioassay for True Metabolisable Energy in Feedingstuff. Poultry Science. 55:303-308.
- Sigarlaki, E. D. dan Tjiptaningrum, A. (2016). Pengaruh Pemberian Buah Naga Merah (*Hylocereus polyrhizus*) terhadap Kadar Kolesterol Total. Majority. Vol. 5(5): 14-17
- Sihombing, G., Avivah, dan Prastowo, S. (2006). Pengaruh Penambahan Zeolit dalam Ransum Terhadap Kualitas Telur Burung Puyuh. J. Indon. Trop. Anim. Agric. 31 (1): 28-31.
- Simangunsong, D. (2014). Kajian Kandungan Zat Makanan Dan Pigmen Antosianin Tiga Jenis Kulit Buah Naga (*Hylocereus Sp.*) Sebagai Bahan Pakan Ternak (Doctoral dissertation, Universitas Brawijaya).
- Simanjuntak, L., Sinaga, C., dan Fatimah. (2014). Ekstraksi Antosianin dari Kulit Buah Naga Merah (*Hylocereus polyrhizus*). Jurnal Teknik Kimia USU. Vol.3(2), 25-29.
- Siswono. (2006). Bahaya Dari Kolesterol Tinggi. <http://www.gizi.net/Cgibin/berita/fullnews.Cgi?newsid997059568.35248>, Diakses pada tanggal 13 April 2018.
- Soejono, M. (1992). Aplikasi bioteknologi di bidang pakan dan nutrisi ternak. Buletin Peternakan Edisi Khusus: 57-65.
- Soejono, M., Utomo, R., dan Widyantoro. (1987). Peningkatan Nilai Nutrisi Jerami Padi dengan Berbagai Perlakuan (Rangkuman). Dalam: Limbah Pertanian Sebagai Pakan dan Manfaat Lainnya. M. Soejono, A. Musofie. R. Utomo, N. K. Wardhani. J. B Schiere (ed.). Proceedings Bioconversion Project Second Workshop on Crop Residues for Feed and Other Purposes. Grati.
- Sonjaya, T. (2001). Nilai Retensi Nitrogen dan Kandungan Energi Metabolis, dan Enzimatik. Skripsi. Jurusan Ilmu Nutrisi dan Makanan Ternak Fakultas Peternakan. Institut Pertanian Bogor.
- Stadellman, W. J. (1995). Quality Identification of Shell Eggs In: Egg Science and Technology. The Haworth Press, Inc. New York.
- Stalmach, A., Edwards, C. A., and Wightman, J. D. (2012). Gastrointestinal stability and bioavailability of (poly)phenolic compounds following ingestion of Concord grape juice by humans. Mol Nutr Food Res 56:497–509.

- Steel, R. G. D. dan J. H. Torrie. (1991). Prinsip dan Prosedur Statistika. Diterjemahkan oleh Bambang Sumantri. PT. Gramedia Pustaka Utama. Jakarta
- Steel, R. G. D., and Torrie, T. H. (1995). Prinsip dan Prosedur Statistik Suatu Pendekatan Biometrik. Edisi kedua. PT. Gramedia Pustaka Utama, Jakarta.
- Sterling, M. (2001). Anthocyanins. The Chiropractic Resource Organization. <http://www.chiro.org/nutrition/FULL/Anthocyanins.shtml>. Issue of Nutrition Science News.
- Subekti, E. (2012). Pengaruh penambahan vitamin C pada pakan non komersial terhadap efisiensi pakan puyuh petelur. J.I.I.P. 8(1): 1-8.
- Sudarmi, S., Subagyo, P., Susanti, A., dan Wahyuningsih, A.S. (2015). Ekstraksi Sederhana Antosianin dari Kulit Buah Naga (*Hylocereus polyrhizus*) sebagai Pewarna Alami. Jurnal Eksergi, Vol. 12(1).
- Sugiyono, S., Hindratiningrum, N., & Primandini, Y. (2015). Determinasi energi metabolis dan kandungan nutrisi hasil samping pasar sebagai potensi bahan pakan lokal ternak unggas. *Jurnal Agripet*, 15(1), 41-45.
- Sundstol, F. (1988). In: E.R. Orskov ed. *Disciplinary Approach, 4-Feed Science-Elsevier Science Publishers B.V., Amsterdam.*
- Suparjo, K. G., Wiryawan, E. B., Laconi, dan Mangunwidjaja, D. (2009). Perubahan komposisi kimia kulit buah kakao akibat penambahan mangan dan kalsium dalam biokonversi dengan kapang *Phanerochaete chrysosporium*. *Med. Pet.* 32:204-211.
- Suprijatna, E., Atmamarsono, U., dan Kartasudjana, R. (2005). Ilmu Dasar Ternak Unggas. Penebar Swadaya, Jakarta.
- Surisdiarto. (2003). Perubahan kimiawi dan daya cerna azolla yang difermentasi dengan ragi tempe. *Buletin Peternakan* 27 (1): 16-22.
- Suryo, P. (2011). Manfaat Buah Naga. <http://panjisuryo.wordpress.com/manfaat-buah-naga/>. Diakses tanggal 02 Desember 2013 jam 11.42 WIB.
- Sutari, N. W. S. (2010). Uji Berbagai Jenis Pupuk Cair Biourine terhadap Pertumbuhan Dan Hasil Tanaman Sawi Hijau (*Brassica juncea L.*). *Agrotrop : Jurnal Ilmu-Ilmu Pertanian (Journal On Agricultural Sciences)* edisi desember 2010. Vol.29.
- Suyatna, F.D. dan Tony Handoko S.K. (2004). Hipolipidemik. Dalam: Sulistia G. Ganiswarna, dkk, ed: *Farmakologi dan Terapi FK-UI*. Edisi ke-4. Jakarta: Gaya Baru. Hal 364-379.
- Takikawa M., Inoue, S., Horio, F., and Tsuda, T. (2010). Dietary anthocyanin-rich bilberry extract ameliorates hyperglycemia and insulin sensitivity via

- activation of AMP-activated protein kinase in diabetic mice. *J. Nutr.* 140:527–533. doi: 10.3945/jn.109.118216.
- Talavéra, S., Felgines, C., Texier, O., Besson, C., Gil-Izquierdo, A., Lamaison, J. L., and Rémésy, C. (2005). Anthocyanin metabolism in rats and their distribution to digestive area, kidney, and brain. *Journal of agricultural and food chemistry*, 53(10), 3902-3908.
- Talavéra, S., Felgines, C., Texier, O., Besson, C., Mazur, A., Lamaison, J. L., and Rémésy, C. (2006). Bioavailability of a bilberry anthocyanin extract and its impact on plasma antioxidant capacity in rats. *Journal of the Science of Food and Agriculture*, 86(1), 90-97.
- Tamiru H, Duguma, M., Furgasa, W., and Yimer, L. (2019). Review on Chicken Egg Quality Determination, Grading and Affecting Factors. *Asian Journal of Medical Science Research and Review*, 01(01): 34-42.
- Tarigan, S. J. B. (2008). Pemanfaatan Tepung Keong Mas Sebagai Substitusi Tepung Ikan dalam Ransum Terhadap Performans Kelinci Jantan Lepas Sapih. Skripsi. Fakultas Pertanian. Universitas Sumatera Utara. Medan.
- Taylor, R. J. (1980). *Food Additives*. John Willey and Sons Ltd., Chichester, hal: 126.
- Tenore, Carlo, G., Novellino, Ettore and Andriana, B. (2012). Nutraceutical Potential and Antioxidant Benefit of Red Pitaya (*Hylocereus Polyrhizus*) extracts. *Journal of Functional foods* 4: 129-136.
- Tetty. (2002). *Puyuh Si Mungil Penuh Potensi*. Agro Media Pustaka. Jakarta.
- Then, K. H., Faiz, O. M., and Norshafiqah, K. (2020). The Flowering Pattern and Fruit Production of Red Pitaya (*Hylocereus polyrhizus*) under Malaysian Growing Condition. *International Journal of Agriculture Innovations and Research*. Vol 8(4):311-317.
- Tian, J., Chen, J., Lv, F., Chen, S., Chen, J., Liu, D. and Ye, X. (2016). Domestic cooking methods affect the phytochemical composition and antioxidant activity of purple-fleshed potatoes. *Food Chemistry*. 197, 1264–1270. Available from: DOI:10.1016/j.foodchem.2015.11.049.
- Tian, Q. G., Giusti, M. M., and Stoner, G. D. (2006). Urinary excretion of black raspberry (*Rubus occidentalis*) anthocyanins and their metabolites. *J Agr Food Chem* 54:1467–1472.
- Tillman, A. D., Hartadi, H., Reksohadiprodjo, S., Prawirokusumo, S., dan Lebdoesoekojo, S. (2005). *Ilmu Makanan Ternak Dasar*. Gadjah Mada University Press. Yogyakarta.
- Tim Pkm Sekolah Hayati. (2010). *Pertanian Organik: Mol (Mikroorganisme Lokal)*. Buletin Sekolah Hayati.

- Timberlake, C.F., and Bridle, P. (1980). Antosianins. Di dalam Development In Food Colours-1. Walford, J (Ed). 1980. Applied Science Published Ltd. New York.
- Towler, M.C., and Hardie D.G. (2007). AMP-activated protein kinase in metabolic control and insulin signaling. *Circ. Res.* 100:328–341. doi: 10.1161/01.RES.0000256090.42690.05.
- Toye, A. A., Sola-Ojo, F. E., and Ayorinde, K. L. (2012). Egg production, egg weight and egg mass repeatability, and genetic gain from use of multiple time-spaced records in Black Harco and Lohman Brown layers. *Centrepont Journal* 18 (2): 147-156.
- Triyanto. (2007). Performa produksi burung puyuh (*Coturnix coturnix japonica*) periode produksi umur 6-13 minggu pada lama pencahayaan yang berbeda. Skripsi. Institut Pertanian Bogor.
- Triyono, A. (2010). Mempelajari Pengaruh Penambahan Beberapa Asam Pada Proses Isolasi Protein Terhadap Tepung Protein Isolat Kacang Hijau (*Phaseolus radiatus L.*). Seminar Rekayasa Kimia dan Proses, ISSN: 1411-4216.
- Truong, V. D., Hu, Z., Thompson, R. L., Yencho, G. C., and Pecota, K. V. (2012). Journal of Food Composition and Analysis Pressurized liquid extraction and quantification of anthocyanins in purplefleshed sweet potato genotypes. *Journal of Food Composition and Analysis.* 26, 96–103. DOI:10.1016/j.jfca.2012.03.006.
- Tserveni-Goussi, A. and Fortomaris, P. (2011). Production and quality of quail, pheasant, goose and turkey eggs for uses other than human consumption. In Y. Nys, M. Bain and F. V. Immerseel (Eds.), *Improving the safety and quality of eggs and egg products* (pp. 509-537): Woodhead Publishing.
- Tuleun, C.D. and Patrick, J. P. (2007). Effect of Duration of Cooking Mucuna Utilis Seed on Proximate Analysis, levels of anti-nutritional factors and performance of broiler chickens. *Nig. J. Anim. Prod.*, 34: 45-53.
- Turner, M. F. (1991). *The Condensed Chemical Dictionary*. First Edition. The Chemical Catalog Company Inc. New York.
- Udensi, E.A., Arisa, N.U., and Ikpa, E. (2010). Effects of soaking and boiling and autoclaving on nutritional quality of Mucuna flagellipes (Ukpo). *Afr. J. Biochem. Res.*, 4: 47-50.
- USDA (United States Department of Agriculture). (2007). *National Nutrient Databases for Standard Reference*.
- Utama, C.S., Sulistiyanto, B., and Kismiati, S. (2017). The effects of water addition and steaming duration on starch composition of wheat pollard. *Reaktor.* 17(4): 220-224.

- Utami, A. S. (2018). Pengaruh Tingkat Penggunaan Duckweed Terfermentasi Terhadap Kadar Kolesterol Telur Puyuh. Publikasi Ilmiah. Universitas Mataram.
- Utami, M.M dan Riyanto. (2002). Pengaruh pemberian pakan dengan metode pemuasaan terhadap kinerja karkas puyuh. *Bulletin Peternakan* 26.1:13-19.
- Utomo, W. J., Sudjarwo, E., Hamiyanti, A. A. (2011). Pengaruh penambahan tepung darah pada pakan terhadap konsumsi pakan, penambahan bobot badan, konversi pakan serta umur pertama kali bertelur burung puyuh. *Jurnal Ilmu-Ilmu Peternakan* 24 (2): 41–48.
- Vanzo, A., Terdoslavich, M., and Brandoni, A. (2008). Uptake of grape anthocyanins into the rat kidney and the involvement of bilitranslocase. *Mol Nutr Food Res* 52:1106–1116.
- Vaziri, N. D. (2016). HDL abnormalities in nephrotic syndrome and chronic kidney disease. *Nature Reviews Nephrology*.
- Venugopal, S. K., and Jialal, I. (2019). Biochemistry, Low Density Lipoprotein. April, 2019. PMID: 29763186
- Wahju, J. (2004). Ilmu Nutrisi Unggas. Gajah Mada University Press. Yogyakarta.
- Wahyu. (2010). Buah Naga. <http://blog.umy.ac.id/renidesmayanti/pertanian/panen-dan-pascapanen-buah-naga/>. Diakses tanggal 15 Maret 2017, jam 19.27 Wib.
- Wahyudi A. (2009). Metabolisme kolesterol hati: khasiat ramuan jati belanda (*G. ulmifolia*) dalam mengatur konsentrasi kolesterol selular; 2009 [Diakses 24 Januari 2017]. Diunduh dari <http://repository.ipb.ac.id/jspui/pdf>
- Waites, M.J., Morgan, N.L., Rockey, J.S., and Higton, G. (2001). *Industrial Microbiology: An Introduction*. USA: Blackwell science.
- Wang, L. S., and Stoner, G. D. (2009). Antosianin and Their Role in Cancer Prevention. *Cancer Lett* 269: 281-290. DOI: 10.1016/j.canlet.2008.05.020.
- Wati, A. K., Dewanti, R., Fadila, P., Rifki, M., and Cahyadi, M. (2019). Exterior Quality of Japanese Quails Egg from Brown and Black Japanese Quail Crosses. Second International Conference on Food and Agriculture. IOP Publishing. IOP Conf. Series: Earth and Environmental Science 411 (2020) 012031. DOI: 10.1088/1755-1315/411/1/012031.
- Wiczowski W, Nowak D S and Topolska J (2015). Changes in the content and composition of anthocyanins in red cabbage and its antioxidant capacity during fermentation, storage and stewing. *Food Chemistry*, 167 (2015) 115–123. DOI: <https://www.doi.org/10.1016/j.foodchem.2014.06.087>.

- Widjastuti, T. dan Kartasudjana, R. (2006). Pengaruh pembatasan ransum dan implikasinya terhadap performa puyuh petelur pada fase produksi pertama. *Journal Indonesia Tropical Animal Agriculture*. 31 (3): 162-166.
- Widodo, A. R., Setiawan, H., Sudiyono, Sudiby dan Indreswari, R. (2013). Kecernaan nutrien dan performan puyuh (*Coturnix coturnix japonica*) jantan yang diberi ampas tahu fermentasi dalam ransum. *Tropical Animal Husbandry*. 2(1): 51–57.
- Widodo, W. (2003). *Nutrisi dan Pakan Unggas Kontetual*. Direktorat Jenderal Pendidikan tinggi. Universitas Muhammadiyah Malang, Malang.
- Widodo, W. (2005). *Tanaman Beracun Dalam Kehidupan Ternak*. UMM Press. Malang. 84-89, 91, 94.
- Wilkanowska, A., and Kokoszynski, D. (2012). Layer Age and Quality of Pharaoh Quail Eggs. *Journal of Central European Agriculture*. Vol. 13 (1): 10-21. DOI: 10.5513/JCEA01/13.1.1007
- Winarno, F.G., (1997). *Kimia Pangan dan Gizi*. Jakarta: PT. Gramedia.
- Winarno, F.G., Fardiaz, S., dan Fardiaz, D. (1989). *Pengantar Teknologi Pangan*. Gramedia Pustaka Utama: Jakarta.
- Wiradimaja, R., Piliang, W. G., Suhartono, M. T., dan Manalu, W. (2004). Performans Kualitas Telur Puyuh Jepang yang Diberi Ransum Mengandung Tepung Daun Katuk (*Saurapus androgynus* L. Merr). Seminar Fakultas Peternakan. Universitas Padjajaran, Bandung.
- Wiset, L., Poomsa-Ad, N., and Srilaong, V. (2012). Comparison of antiokxidant activity and bioactive compounds of dragon fruit peel from various drying method. *World Academy of Science, Engineering and Technology*, 70, 446-449.
- Wu, L., Hsu, H. W., Chen, Y. C., Chiu, C. C., Lin, Y. I., Ho, J. A. (2006). Antioxidant and antiproliferative activities of red pitaya. *Food Chemistry*. 95: 319-327.
- Wu, X. L., Pittman, H. E., and Mckay, S. (2005). Aglycones and Sugar Moieties Alter Anthocyanin Absorption and Metabolism After Berry Consumption In Weanling Pigs. *J Nutr* 135:2417–2424.
- Wu, X. L., Pittman, H. E., and Prior, R. L. (2004). Pelargonidin Is Absorbed and Metabolized Differently Than Cyanidin After Marionberry Consumption In Pigs. *J Nutr* 134:2603–2610.
- Wulandari, K. Y., Ismadi, V. D. Y. B, dan Tristiarti. (2013). Kecernaan serat kasar dan energi metabolis pada ayam Kedu umur 24 minggu yang diberi ransum dengan berbagai level protein kasar dan serat kasar. *Journal Animal Agriculture*. 2 (1): 9 -17.

- Wulandari, M. (2011). Efektifitas Penggunaan Limbah Kulit Buah Naga (*Hylocereus polyrhizus*) Dalam Ransum Sebagai Alternatif Suplemen Alami Untuk Meningkatkan Kualitas Telur Ayam Komersil. <http://mahaw08.student.ipb.ac.id/2011/12/07/>. Diakses tanggal 21 November 2013 jam 09.27.
- Wuryadi, S. (2011). Buku Pintar Beternak dan Bisnis Puyuh. Agromedia Pustaka. Jakarta. Hal. 16-18.
- Wybraniec, S.I., and Platzner, S. G. (2001). Betacyanins from vine cactus *Hylocereus polyrhizus*. *Phytochemistry*, 58(8), 1209–1212.
- Xavier, M. F., Lopes, T. J., Quadri, M. G. N., and Quadri, M. B. (2008). Extraction of Red Cabbage Anthocyanins: Optimization of the Operation Conditions of the Column Process. *Brazz. arch. biol. Technol.* Vol. 51, No.1: pp. 143-152.
- Yulianto, K. (2007). Penelitian Isolasi Alginate Rumput Laut Coklat dan Prospeknya Menuju Industry. *Prosiding Seminar Riptek Kelautan Nasional*. Jakarta (2): 104-108.
- Yunita, M., dan Rahmawati, R. (2015). Pengaruh Lama Pengeringan terhadap Mutu Manisan Kering Buah Carica (*Carica Candamarcensis*). *Jurnal Konversi*, 4(2), 17-28.
- Yuniza, A., Rizal, Y., dan Sandra, F. (2018). Peningkatan Performa Broiler dan Kualitas Karkasnya Melalui Sistem Pemeliharaan Organik dan Pemberian Krokot (*Portulaca oleracea*) Sebagai Asam Lemak Omega Tiga. Laporan Penelitian Tahap 1. Universitas Andalas, Padang.
- Yusuf, R., Laude, S. L., Hawalina, H., dan Setianingsih, N. M. (2017). Pertumbuhan Tanaman Buah Naga (*Hylocereus undatus* L.) yang Diberikan Berbagai Konsentrasi Naa (Naphthalen Acetic Acid) Secara In Vitro. *Agroland: Jurnal Ilmu-ilmu Pertanian*, 24(2), 113-118.
- Zahra, A. A., Sunarti, D., dan Suprijatna, E. (2012). Pengaruh pemberian pakan bebas pilih (Free choice feeding) terhadap performans produksi telur burung puyuh (*Coturnix coturnix japonica*). *Animal Agriculture Journal*, 1(1), 1-11.
- Zain, N.M. and Nazeri, M.A. (2016). Antioxidant and Mineral Content of Pitaya Peel Extract obtained using Microwave Assisted Extraction (MAE). *Australian Journal of Basic and Applied Sciences*, 10 (17), 63-68.
- Zuprizal. (1998). Ilmu nutrisi unggas lanjut. Fakultas Peternakan Universitas Gadjah Mada. Yogyakarta.