

**DAFTAR PUSTAKA**

- Amrullah, I.K. 2003. *Nutrisi Ayam Petelur*. Lembaga satu Gunung budi. Institut Pertanian Bogor. Bogor
- An, S.Y., M.Y. Guo, S.D. Ma, M.J. Yuan and G.Z. Liu. 2010. Effect of different oil sources and vitamin E in breeder diet on egg quality, hatchability and development of the neonatal offspring. *Asian-Australasian Journal of Animal Science*. 23:234-239.
- Argo, L.B., Tristiarti, dan I. Mangisah. 2013. Kualitas fisik telur ayam arab petelur fase 1 dengan berbagai level azolla microphilla. *Journal of Animal Agriculture*. 2(1):9-10.
- Arterburn, L.M., E.B. Hall and H. Oken. 2006. Distribution, interconversion, and dose response of n-3 fatty acids in humans. *American Journal of Clinical Nutrition*. 83(6 Suppl):1467S-1476S.
- Aydin, R. and I. Dogan. 2010. Fatty acid profile and cholesterol content of egg yolk from chickens fed diets supplemented with purslane (*Portulaca oleracea L.*). *Journal of The Science of Food and Agriculture*. 90(10):1759-1763.
- Ayerza, R. and W. Coates. 2009. Omega-3 enriched eggs: The influence of dietary  $\alpha$ -linolenic fatty acid source on egg production and composition. *Canadian Journal of Animal Science*. 81(3):355-362.
- Barbosa-Filho, J.M., A.A. Alencar, X.P. Nunes, A.C.A. Tomaz, J.G. Sena-Filho, P.F. Athayde Filho, M.S. Silva, M.F.V. Souza and E.V.L. da-Cunha. 2008. Sources of alpha-, beta-, gamma-, delta- and epsilon-carotenes: A twentieth century review. *Brazilian Journal of Pharmacognosy*. 18:135-154.
- Bell, D. and G. Weaver. 2002. *Commercial Chicken Meat and Egg*. Kluwer Academic Publishers. United States of America.
- Buckle, K.A., R.A. Edward, G.H. Fleet dan M. Wooton. 1987. *Ilmu Pangan*. Penerbit Universitas Indonesia. Jakarta. (Penerjemah: Hari Purnomo dan Adiono).
- Cachaldora, P., P. García-Rebollar, C. Alvarez, J.C. De Blas and J. Mendez. 2008. Effect of type and level of basal fat and level of fish oil supplementation on yolk fat composition and n-3 fatty acids deposition efficiency in laying hens. *Animal Feed Science Technology*. 141(1-2):104-114.
- Caner, C. 2005. The effect of edible eggshell coating on egg quality and consumer perception. *Journal of The Science of Food and Agriculture*. 85:1897-1902.

- Ceylan, N., I. Ciftci, C. Mizrak, Z. Kahraman and H. Efil. 2011. Influence of different dietary oil source on performance and fatty acids profile of egg yolk in laying hens. *Journal of Animal Feed Science*. 20:71-83.
- Cherian, G. and N. Quezada. 2016. Egg quality, fatty acid composition and immunoglobulin Y content in eggs from laying hens fed full fat camelina or flaxseed. *Journal of Animal Science and Biotechnology*. 7:15.
- Dunn-Horrcks, S., M. Pichardo-Fuchs, J. Lec, C. Ruiz-Feria, C. Creger, D. Hyatt, K. Stringfellow, M. Sanchez and M. Farnell. 2011. Alternatives for enrichment of eggs and chicken meat with n-3 fatty acids. *International Journal of Poultry Science*. 10:8-11.
- Dwiputra, D., A.N. Jagat, F.K. Wulandari, A.S. Prakarsa dan D.A. Puspitaningrum. 2015. High corn dietary intake improves health and longevity of aging mice. *Jurnal Aplikasi Teknologi Pangan*. 4(2):5-6.
- Estiasih, T., A.W.K. Sunarharum and R.A.D. Kurnain. 2011. One Step Saponification and Extraction for Extracting High Linoleic and Linolenic from Local Soybean. *Journal of The Science of Food and Agriculture*. 31(1):36-45
- Evaris, E., L.A.S. Franco, J.C.S. Correa and C.M.C. Leal. 2015. Effect of dietary inclusion of purslane (*Portulaca oleracea L.*) on yolk omega-3 fatty acids content, egg quality and productive performance of rhode island red hens. *Faculted de Mediciana Veterinaria Zootecnia. Universidad Autonomia de Yucata. Mexico*.
- Gakhar, N., E. Goldberg, M. Jing, R. Gibson and J.D. House. 2012. Effect of feeding hemp seed and hemp seed oil on laying hen performance and egg yolk fatty acid content: Evidence of their safety and efficacy for laying hen diets. *Poultry Science*. 91(3):701-711.
- Gibson, R.A., M. Makrides and C.G. Colyer. 2002. Essential role of fats throughout the lifecycle: summary and recommendations. *Medical Journal of Australian*. 176 Suppl:S107-109.
- Gicero, A.F.G and G. Derosa. 2005. Rice Bran And Its Main Components: Potential Role In The Management Of Coronary Risk Factor. *Journal of Nutraceutical*. 3(1):29-46.
- Hayat, Z., G. Cherian, T.N. Pasha, F.M. Khattak and M.A. Jabbar. 2009. Effect of feeding flax and two types of antioxidants on egg production, egg quality, and lipid composition of eggs. *Journal of Applied Poultry Reseach*. 18(3):541-551.
- Horniakova, E. 1997. Effect of different content of fat source on production and indices of egg quality. *Proceeding of the 16<sup>th</sup> Scientist Conference of the Feedstuffs Res.* pp:183-188.

- Irawan, D., P. Hariyadi and H. Wijaya. 2003. The Potency of Krokot (*Portulaca oleracea*) as Functional Food Ingredients. Indonesian Food and Nutrition Progress. 10(1):15-17
- Iriyanti, N., M. Mufti dan T. Widiyastuti. 2007. Manipulasi Pakan Dengan Immunostimulan Probiotik Dan Prebiotik Terhadap Tampilan Sistem Immunologik Berdasarkan Profil Darah Dan Mikroba Saluran Pencernaan Ayam Petelur. Laporan Penelitian DIPA Program Pascasarjana Fakultas Peternakan. Universitas Jenderal Soedirman. Purwokerto.
- Jeliman, Y. 2009. System Reproduksi Ayam Betina. Journal of Animal Agriculture.
- Jones, D.R. 2006. Conserving and Monitoring Shell Egg Quality. Proceedings of the 18<sup>th</sup> Annual Australian Poultry Science Symposium. pp. 157 – 165.
- Kartikasari, L.R., A.M.P. Nuhriawangsa, B.S. Hertanto and W. Swastike. 2015a. Production Performance and Quality of Eggs of Laying Hens Fed Diets Supplemented with Plants Rich in alpha-Linolenic Acid. In: the proceedings of the 6<sup>th</sup> ISTAP International Seminar on Tropical Animal Production: Faculty of Animal Science. Gadjah Mada University. Yogyakarta. 117
- Kartikasari, L.R., A.M.P. Nuhriawangsa, B.S. Hertanto and W. Swastike. 2015b. Effect of Supplementation Purslane (*Portulaca Oleracea*) as A Source of Alpha-Linolenic Acid on Production Performance and Physical Quality of Egg of Laying Hens. Journal Animal Production. Sebelas Maret University. 17(2):149-153.
- Kartikasari, L.R., B.S. Hertanto, D. Pranoto, W.N. Salim and A.M.P. Nuhriawangsa. 2016. Exterior and Interior Physical Quality of Egg of Laying Hens Fed Diets Containing Different Dietary Purslane Levels. Conference/abstrak ICFSE.
- Kartikasari, L.R., R.J. Hughes, M.S. Geier, M. Makrides and R.A. Gibson. 2012a. Comparison of omega-3 levels in two strains of broilers and layers fed high alpha-linolenic acid diets. In the proceedings of the 23<sup>rd</sup> Annual Australian Poultry Science Symposium 19-22<sup>nd</sup> February. Sydney. Australia. 237-240
- Kartikasari, L.R., R.J. Hughes, M.S. Geier, M. Makrides and R.A. Gibson. 2012b. Dietary alpha-linolenic acid enhances omega-3 long chain polyunsaturated fatty acid levels in chicken tissues. *Prostaglandins, Leukotrienes and Essential Fatty Acids*. 87(4-5):103-109.
- Kartikasari, L.R., R.J. Hughes, M.S. Geier, M. Makrides and R.A. Gibson. 2012c. Omega-3 Enrichment and Sensory Properties of Eggs of Two Strains of Layers Fed High alpha-Linolenic Acid Diets. In: the proceedings of the

- XXIV World's Poultry Congress: 5 – 9<sup>th</sup> August 2012. Salvador. Bahia. Brazil. 342-345
- Krawczyk, J., Z. Sokołowicz, and B. Szymczyk. 2011. Effect of housing system on cholesterol, vitamin and fatty acid content of yolk and physical characteristics of eggs from Polish native hens. *Archiv fuer Gefluengelkunde*. 75(3). S:151- 157.
- Kurtini, T., K. Nova dan D. Septinova. 2014. *Produksi Ternak Unggas*. Anugrah Utama Raharja (AURA). Bandar Lampung.
- Kusnadi. 2007. *Sifat Listrik Telur Ayam Kampung Selama Penyimpanan*. Skripsi. Departemen Fisika. Fakultas Matematika dan Ilmu Pengetahuan Alam. Institut Pertanian Bogor. Bogor.
- Lopez-Ferrer, S., M.D. Baucells, A.C. Barroeta, J. Galobart and M.A. Grashorn. 2001. omega-3 enrichment of chicken meat. 2. Use of precursors of long-chain polyunsaturated fatty acids: linseed oil. *Poultry Science*. 80(6):753-761.
- March, B.E. and C. Macmillan. 1990. Linolenic acid as a mediator of egg size. *Poultry Science*. 69:634-639.
- Mehmet, G.U.L., M.A. Yoruk, T. Aksu, A. Kaya and O. Kaynar. 2012. The effect of different level of canola oil on performance, egg shell quality and fatty acid composition of laying hens. *International Journal of Poultry Science*. 11(12):769-776.
- Moyad, M.A. 2005. An introduction to dietary/supplemental omega-3 fatty acids for general health and prevention: Part I. urologic oncology-seminars and original investigations. 23(1):28-35.
- Mubaraq, N., F.J. Nangoy, C.L.K. Sarayar dan M.H.M. Kawatu. 2015. Pengaruh substitusi sebagian ransum dengan tepung tomat (*Solanum Lycopersicum L*) terhadap berat telur, berat kuning telur dan massa telur ayam ras. Fakultas Peternakan Universitas Sam Ratulangi. Manado.
- Muchtadi, T.R. dan Sugiyono. 1992. *Ilmu pengetahuan bahan pangan*. PAU Pangan dan Gizi Institut Pertanian Bogor, Bogor.
- Nash, D.M., R.M.G. Hamilton, K.A. Sanford and H.W. Hulan. 1996. The effect of dietary menhaden meal and storage on the omega-3 fatty acids and sensory attributes of egg yolk in laying hens. *Canadian Journal of Animal Science*. 76(3):377-383.
- National research council (NRC). 1994. *Nutrient Requirement of Poultry*. National Academy Press. Washington, D.C.

- North, M.O. and D.D. Bell. 1990. Commercial Chicken Production Manual. The 4<sup>th</sup> ed. Avi Publishing Company Inc. Westport. Connecticut.
- Powrie, W.D., H. Little and A. Lopez. 1963. Gelation of egg yolk. Journal of Food Science. 28(1):38–46.
- Purwaningsih, D., M.A. Djaelani dan T.R. Saraswati. 2016. Kualitas Telur Ayam Ras Setelah Pemberian Olesan Lidah Buaya (*Aloe vera*) dan Lama Penyimpanan Waktu yang Berbeda. Departemen Biologi, Fakultas Sains dan Matematika. Universitas Diponegoro.
- Rammanof, A.L. and A.J. Rammanof, 1963. The Avian Egg. Jhon Willey and Sons. New York.
- Rasaulpour, A., A. Nobakht, S. Khodayi and N.H. Mansoud. 2001. Effect of graded fat/oil on egg production and quality, same biochemical parameter of blood and immunity in laying hens. Advances in Environmental Biology. 5:1826-1831.
- Rashed, A.N., F.U. Affi, M. Shaedah and M. Taha. 2004. Investigation of the active constituents of *Portulaca oleracea L. (Portulacaceae)* growing in Jordan. *Pakistan Journal of Pharmaceutical Sciences*. 17:37-45.
- Renden, J.A., F.H. Benoff, J.C. Williams and R.D. Bushong. 1990. Examination of the Physical Characteristics in a Diverse Group of Dwarf White Leghorn Pullets Before and After First Oviposition. Journal of Poultry Science. 69:16-26.
- Roberts, J.R. 2004. Factors Affecting Eggs Internal Quality in Laying Hens. Review. Journal of Poultry Science. 41:161-177.
- Rosidah. 2006. Hubungan Umur Simpan dengan Penyusutan Bobot, Nilai Haugh Unit, Daya dan Kestabilan Buih Putih Telur Itik Tegal Pada Suhu Ruang. Skripsi. Institut Pertanian Bogor. Bogor.
- Rusadi, D.S. 2013. Kualitas Interior Telur Ayam Ras Petelur Berumur Muda. Fakultas Peternakan Universitas Hasanudin. Makasar.
- Sirait, C.H. 1986. Telur dan Pengolahannya. Pusat Penelitian dan Pengembangan Peternakan. Bogor.
- Stadelman, W.J and O.J. Cotteril. 1995. Egg Science and Technology. 4<sup>th</sup> ed. Food Products Press. An Imprint of the Haworth Press, Inc., New York.
- Standar nasional indonesia (SNI). 2008. Kumpulan SNI Bidang Pakan. Direktorat Budidaya Ternak Non Ruminansia. Direktorat Jenderal Peternakan. Departemen Pertanian. Jakarta.
- Sudaryani, T. 2003. Kualitas Telur. Penebar Swadaya. Cetakan ke-4. Jakarta.

- Suprapti, M.L. 2002. Pengawetan Telur. Kanisius. Yogyakarta.
- Uddin, M.K., A.S. Juraimi, M.S. Hossain, M.A. Un Nahar, M.E. Ali and M.M. Rahman. 2014. purslane weed (*portulaca oleracea*): a prospective plant source of nutrition, omega-3 fatty acid, and antioxidant attributes. Scientific World Journal. 11(1):13–20.
- Van Elswyk, M.E. 1997. Comparison of n-3 fatty acid sources in laying hen rations for improvement of whole egg nutritional quality: a review. British Journal of Nutrition. 78 Supply 1:S61-69.
- Wilson, B.J. 1975. The Performance of Male Ducklings Given Starter Diets with Different Concentration of Energy and Protein. British Poultry Science. 16:625-657.
- Yamamoto, T., L.R. Juneja, H. Hatta and M. Kim. 2007. Hen Eggs: Basic and Applied Science. University of Alberta. Canada.
- Yannakopoulos, A.L., A.S. Tserveni-Gousi and E. Christaki. 1998. Effect of natural zeolite on yolk : albumen ratio in hen eggs. British Poultry Science. 39:506-510.
- Yassein, S.A., G.M. El-Mallah, A.A. El-Ghamry, S.M. Ahmed, D.M. El-Hariry and M.M. Abdel-Fattah. 2015. Response of laying hens to dietary flaxseed levels on performance, egg quality criteria, fatty acid composition of egg and some blood parameters. Animal Production Department/Agricultural and Biological Research Division National Research Centre Giza. Egypt.
- Yesilbag, D. 2006. Effects of Organic Acid Supplemented Diets on Growth Performance, Egg Production and Quality and on Serum Parameters in Laying Hens. Review. Medical Veterinary. 157(5): 280-284.
- Yitnosumarto, S. 1993. Percobaan Perancangan, Analisis dan interpretasinya. PT. Gramedia Pustaka Utama. Jakarta.
- Yuniarti, D., S.S. Santoso dan N. Iriyanti. 2013. Pengaruh pakan fungsional mengandung omega-3, prebiotik dan antihistamin N3 terhadap viskolits dan haugh unit telur ayam kampung. Jurnal Ilmiah Peternakan. 1(2):684-690.
- Yuwanta, T. 2010. Telur dan Kualitas Telur. Gadjah Mada University Press. Yogyakarta.