

DAFTAR PUSTAKA

- Achmanu, A., M. Muharliien, dan S. Akhmat. 2010. Pengaruh lantai kandang (renggang dan rapat) danimbangan jantan-betina terhadap konsumsi pakan, bobot telur, konversi pakan, dan tebal kerabang pada burung puyuh (*Coturnix-coturnix Japonica*). Jurnal Ilmu-Ilmu Peternakan Universitas Brawijaya. 20 (1) : 48-54.
- Al-Fajar, M. Z., O. Induk, dan R. Yusuf. 2019. Pemanfaatan daun sirsak (*Annona muricata* L.) sebagai *feed additive* terhadap konsumsi pakan, PBB, FCR, dan lemak abdominal pada ayam broiler. Jurnal Peternakan Lingkungan Tropis. 2 (1) : 43–49.
- Afandi, F.A. 2014. Pengaruh nanoenkapsulasi terhadap mutu sensori, fisikokimia, dan fisiologiaktif minuman fungsional berbasis kumis kucing (*Orthosiphon aristatus* Bl. Miq). Tesis. Fakultas Teknologi Pertanian. Institut Pertanian Bogor, Bogor.
- Afrianti, M., B. Dwiloka, and B.E. Setiani. 2013. Perubahan warna, profil protein, dan mutu organoleptik daging ayam broiler setelah direndam dengan ekstrak daun senduduk. Jurnal Aplikasi Teknologi Pangan. 2(3): 116-120.
- Andino, A. and I. Hanning. 2015. *Salmonella enterica* : survival, colonization, and virulence differences among serovars. Sci. World J. 1-16.
- Anggorodi, R. 1994. Ilmu Makanan Ternak. Penerbit Gramedia Pustaka Utama, Jakarta.
- Astuti, P., H. Supta, and L. P M. Risyani. 2017. Upaya peningkatan kualitas daging ayam broiler melalui pemberian ekstrak meniran. Jurnal Agrisaintifika. 1(1): 46–52.
- Aukkanit, N. dan S. Sirichokworrakit. 2017. Effect of dried pumpkin powder on physical, chemical, and sensory properties of noodle. Int. J. Adv. Sci. Eng. Technol. 5 (1) : 14-18.
- Azevedo, M.C.H. and D.B. Rodriguez-Amaya. 2007. Qualitative and quantitative differences in carotenoid composition among *Cucurbita moschata*, *Cucurbita maxima*, and *Cucurbita pepo*. J. Agric. Food Chem. 55 (10): 4027 – 4033.
- Badan Pusat Statistik. 2014. Data Produksi Tanaman Semusim. Jakarta. Diakses tanggal 14 Desember 2022.
- Badan Pusat Statistik. 2022. Survei Sosial Ekonomi Nasional. Jakarta. Diakses tanggal 15 Juni 2023.

- Balakumar, K. and C. V Raghavan. 2013. Self nanoemulsifying drug delivery system (snedds) of rosuvastatin calcium: design, formulation, bioavailability and pharmacokinetic evaluation. *Colloids Surf. B.* 112: 337– 343.
- Bilia, A.R., V. Piazzini, M. Asprea, L. Risaliti, G. Vanti, and M.C. Bergonzi. 2018. Plants extracts loaded in nanocarriers : an emergent formulating approach. *Nat. Prod. Commun.* 13 (9): 1157 – 1160.
- Bowker, B. and H. Zhuang. 2015. Relationship between water-holding capacity and protein denaturation in broiler breast meat. *Poult. Sci.* 94(7): 1657-1664.
- Carvajal, Q.M., B.H. Ximena, L.S. Camacho-Díaz, J.J. Meraz-Torres, L. Chanona-Pérez, A. Alamilla-Beltrán, Jimenéz-Aparicio, and G.F. Gutiérrez-López. 2010. Nanoencapsulation : a new trend in food engineering processing. *Food Eng. Rev.* 2 (1) : 39–50.
- Chanwitheesuk, A., A. Teerawutgulrag, and N. Rakariyatham. 2005. Screening of antioxidant activity and antioxidant compounds of some edible plants of Thailand. *Food chem.* 92(3): 491–497.
- Chuang, W. Y., Y. C. Hsieh, L. W. Chen, and T. T. Lee. 2020. Evaluation of the relationship between adipose metabolism patterns and secretion of appetite-related endocrines on chicken. *Animals (Basel).* 10 (8): 1282-13042.
- Daud, M., Z. Fuadi, and M. Mulyadi. 2017. Performan dan persentase karkas ayam ras petelur jantan pada kepadatan kandang yang berbeda. *Jurnal Agripet.* 17(1): 67–74.
- Davis, W.W. and T.R. Stout. 1971. Disc plate methods of microbiological antibiotic assay. *Appl. Microbiol.* 22 (4) : 659-665.
- Diba, R.F., S. Yasni, dan S. Yuliani. 2014. Nanoemulsifikasi spontan ekstrak jintan hitam dan karakteristik produk enkapsulasinya. *Jurnal Teknologi dan Industri Pangan.* 25 (2) : 134 -139.
- Dono, N.D. 2012. Nutritional strategies to improve enteric health and growth performance of poultry in the post antibiotic era. Ph.D. Thesis. College of Medical, Veterinary and Life Sciences. University of Glasgow. Glasgow.
- Esfanjani, A.F. and S.M. Jafari. 2016. Biopolymer nano-particles and natural nano-carriers for nano-encapsulation of phenolic compounds. *Colloids Surf. B.* 146 : 532–543.
- Fijana, M.F., E. Suprijatna, and U. Atmomarsono. 2012. Pengaruh proporsi pemberian pakan pada siang malam hari dan pencahayaan pada malam hari terhadap produksi karkas ayam broiler. *Animal Agriculture Journal.* 1(1): 697– 710.

- Fitasari, E. 2012. Penggunaan enzim *papain* dalam pakan terhadap karakteristik usus dan penampilan produksi ayam pedaging. Buana Sains. 12 (1) : 7–16.
- Gheisar, M.M. and I.H. Kim. 2018. Phytobiotics in poultry and swine nutrition—a review. J. Anim. Sci. 17 (1) : 92 – 99.
- Grabež, V., B. Egelanddal, A. Cruz, E. Hallenstvedt, L. T. Mydland, O. Alvseike, K. Kåsin, L. Ruud, V. Karlsen, and M. Øverland. 2022. Understanding metabolic phenomena accompanying high levels of yeast in broiler chicken diets and resulting carcass weight and meat quality changes. Poult. Sci. 101 (5): 1-13.
- Gregory, N.G. 2010. How climatic change could affect meat quality. Food Res. Int. 43 (7) : 1866 – 1873.
- Gumolung, D., E. Suryanto, dan C. Mamuja. 2013. Aktivitas antioksidan dan antifotooksidasi dari ekstrak labu kuning (*Curcubita moschata*). Jurnal Ilmu Teknologi Pangan. 1 (1) : 23 – 29.
- Haftani, F. Nejati and Nima Sadeghinia. 2011. A Review on Application of Chitosan as a Natural Antimicrobial. World Academy of Science, Engineering and Technology, International. Journal of Medical, Health, Biomedical, Bioengineering and Pharmaceutical Engineering. 5 : 46-50.
- Harris, R.E., M. Lecumberri, A. Mateos-Aparicio, Mengibar, and Heras. 2011. Chitosan nanoparticles and microspheres for the encapsulation of natural antioxidants extracted from *Ilex paraguariensis*. Carbohydr. Polym. 84 (2) : 803 – 806.
- Hartono, E., N. Iriyanti, dan R.S.S. Santosa. 2013. Penggunaan pakan fungsional terhadap daya ikat air, susut masak dan keempukan daging ayam broiler. Jurnal Ilmiah Peternakan. 1 (1) : 10 - 19.
- Hernandez, F., J. Madrid, V. Garcia, J. Orengo, and M.D. Megias. 2004. Influence of two plant extracts on broilers performance, digestibility, and digestive organ size. Poult. Sci. 83(2): 169–174.
- Huang, Q., H. Yu, and Q. Ru. 2010. Bioavailability and delivery of nutraceuticals using nanotechnology. J. Food Sci. 75 (1) : 50 – 57.
- Indriyanti, E., Y. Purwaningsih, dan D. Wigati. 2018. Skrining fitokimia dan standarisasi ekstrak kulit buah labu kuning (*Cucurbita moschata*). Jurnal Ilmiah Cendekia Eksakta. 3 (2) : 20 – 25.
- Jahan, M.S., M. Asaduzzaman, and A.K. Sarkar,. 2006. Performance of broiler feed on mash, pellet and crumble. Int. J. Poult. Sci. 5(3): 265–270.

- Joseph, E. and G. Singhvi. 2019. Multifunctional nanocrystals for cancer therapy: a potential nanocarrier. In: Grumezescu, A. M. eds. Nanomaterials for drug delivery and therapy pp. Birla Institute of Technology and Science, Pilani. Amsterdam.
- Kazi, M., M. AlSwairi, A. Ahmad, M. Raish, F.K. Alanazi, M.M. Badran, A.A. Khan, A.M. Alanazi, and M.D. Hussain, 2019. Evaluation of self-nanoemulsifying drug delivery systems (SNEDDS) for poorly water-soluble talinolol: Preparation, *in vitro* and *in vivo* assessment. *Front. Med.* 10 : 459.
- Khan, R.U., F.R. Durrani, N. Chand, and H. Anwar. 2010. Influence of feed supplementation with *cannabis sativa* on quality of broilers carcass. *Pak. Vet. J.* 30(1): 34–38.
- Khumaini, A., R.E. Mudawaroch, and D.A. Hanung. 2012. Pengaruh penambahan sari kunyit (*Curcuma domestica* Val) dalam air minum terhadap konsumsi pakan dan konsumsi air minum ayam broiler. *Surya Agritama.* 1(2): 85–93.
- Kong, C. and O. Adeola. 2010. Apparent ileal digestibility of amino acids in feed stuffs for white pekin ducks. *Poult. Sci.* 89(3): 545–550.
- Krishnaiah, D., R. Sarbatly, and R. Nithyanandam. 2011. A review of the antioxidant potential of medicinal plant species. *Food Bioprod. Process.* 89(3): 217–233.
- Kurpiers, M., D.W. Julian, S. Christian, Z. Sergey, and B.S. Andreas. 2020. Zeta potential changing nanoemulsions based on phosphate moiety cleavage of a PEGylated surfactant. *J. Mol. Liq.* 316.
- Kusumasari, Y.F.Y., V.D. Yuniarto, dan E. Suprijatna. 2012. Pemberian fitobiotik yang berasal dari mahkota dewa (*Phaleria macrocarpa*) terhadap kadar hemoglobin dan hematokrit pada ayam broiler. *Jurnal Aplikasi Teknologi Pangan.* 1 (4) : 129 - 132.
- Mardiyati, E., S. E. Muttaqien, and D.R. Setyawat. 2012. Sintesis nanopartikel kitosan - sodium triphosphate dengan metode gelasi ionik: pengaruh konsentrasi dan rasio volume terhadap karakteristik partikel. halaman: 90–93 in *Prosiding Pertemuan Ilmiah Ilmu Pengetahuan Dan Teknologi Bahan.*
- Mario, W.L.M., S.E. Widodo, dan O. Sjoftan. 2013. Pengaruh penambahan kombinasi tepung jahe merah, kunyit dan meniran dalam pakan terhadap pencernaan zat makanan dan energi metabolis ayam pedaging. *Indones. J. Anim. Sci.* 24 (1) : 1 – 8.
- Mayora, W.I., S. Tantal, K. Nova, and R. Sutrisna,. 2018. Performa ayam kub (kampung unggul balitnak) periode starter pada pemberian ransum dengan protein kasar yang berbeda. *Jurnal Riset dan Inovasi Peternakan.* 2(1): 26– 31.

- Muharlién, M., A. Achmanu, and A. Kurniawan. 2010. Efek lama waktu pembatasan pemberian pakan terhadap performans ayam pedaging finisher. *Journal of Tropical Animal Production*. 11(2): 88–94.
- Nisa, F.K., K. Kasmui, dan H. Harjito. 2015. Uji aktivitas antioksidan pada modifikasi senyawa khaisin dengan gugus alkoksi menggunakan metode recife model 1 (RM1). *Indonesian Journal of Mathematics and Natural Sciences*. 38 (2) : 160 – 168.
- Nuningtyas, Y.F. 2014. Pengaruh penambahan tepung bawang putih (*Allium sativum*) sebagai aditif terhadap penampilan produksi ayam pedaging. *TERNAK TROPIKA Journal of Tropical Animal Production*. 15 (1) : 65 – 73.
- Ozturk, E., I. Coskun, N. Ocak, G. Erener, M. Dervisoglu, and S. Turhan. 2014. Performance, meat quality, meat mineral contents and caecal microbial population responses to humic substances administered in drinking water in broilers. *Br. Poult. Sci.* 55(5): 668-674.
- Patra, J. K. and K.-H. Baek. 2014. Green nanobiotechnology: factors affecting synthesis and characterization techniques. *J. Nanomater.* 219 – 219.
- Perryman, K. R., H. Olanrewaju, and W. A. Dozier. 2013. Growth performance and meat yields of broiler chickens fed diets containing low and ultra-low oligosaccharide soybean meals during a 6-week production period. *Poult. Sci.* 92(5): 1292-1304.
- Polii, P.F., K. Maaruf, Y. Kowel, H. Liwe, and Y.C. Raharjo. 2015. Pengaruh penambahan zat aditif (enzim dan asam organik) dengan protein tinggi dan rendah pada pakan berbasis dedak terhadap performan kelinci. *Zootec.* 35(2): 280–288.
- Prabakar, G.M., K. Gopi, Karthik, S. Shanmuganathan, A. Kirubakaran, and S. Pavulraj. 2016. Phytobiotics: could the greens inflate the poultry production. *Asian J. Anim. Vet. Adv.* 11 (7) : 383 – 392.
- Pratama, I.G.W. and I.W. Sukananta. 2015. Analisis preferensi konsumen dalam membeli daging ayam broiler di pasar tradisional kota Denpasar. *Jurnal Peternakan Tropis*. 3(3): 549–560.
- Purba, M. and L.H. Prasetyo. 2014. Respon pertumbuhan dan produksi karkas itik pedaging epmp terhadap perbedaan kandungan serat kasar dan protein dalam pakan. *Jurnal Ilmu Ternak dan Veteriner*. 19(3): 220–230.
- Purbowati, E., C.I. Sutrisno, E. Baliarti, S.P.S. Budhi, and W. Lestariana. 2006. Chemical composition of longissimus dorsi and biceps femoris on different slaughter weight of local male sheep reared in the village. *Anim. Prod.* 8(1): 1-7.

- Qaid, M. M., S. I. A. Mufarrej, M. M. Azzam, M. A. Al-Garadi, A. H. Alqhtani, E. H. Fazea, G. M. Suliman, and I. A. Alhidary. 2021. Effect of *Rumex nervosus* leaf powder on the breast meat quality, carcass traits, and performance indices of *Eimeria tenella* oocyst-infected broiler chickens. *Animals (Basel)*. 11(6): 1551-1570.
- Raharjo, I.T., R.E. Mudawaroch, and H.D. Arifin. 2015. Nilai ph dan keempukan daging ayam broiler pengaruh penambahan sari kunyit (*Curcuma domestica* Val.) dan jahe (*zingiberofficinale rocs*) pada air minum. *Surya Agritama Jurnal Ilmu Pertanian dan Peternakan*. 4(1): 1-10.
- Ramiah, S.K., I. Zulkifli, N.A.A. Rahim, M. Ebrahimi, and G.Y. Meng. 2014. Effects of two herbal extracts and virginiamycin supplementation on growth performance, intestinal microflora population and fatty acid composition in broiler chickens. *Asian-australas. J. Anim. Sci.* 27(3): 375-382.
- Ravindran, V. 2012. Advances and future directions in poultry nutrition: an overview. *Journal of the Korean Poultry Association*. 39(1): 53–62.
- Restiayanti, L., I.G.N.G. Bidura, and N.L.G. Sumardani. 2014. Pengaruh pemberian ekstrak daun kelor (*Moringa oleifera* Lam) dan daun bawang putih (*Allium sativum*) melalui air minum terhadap distribusi lemak tubuh dan kadar kolesterol broiler umur 2-6 minggu. *Jurnal Peternakan Tropis*. 2(3): 402–414.
- Safitri, A.U. 2016. Aktivitas antibakteri nanopartikel kitosan berbasis cangkang lobster terhadap bakteri *Staphylococcus aureus* dan *Staphylococcus epidermidis*. *Scientific Repository*. Institut Pertanian Bogor. Bogor.
- Setiawan, H., L.B. Utami, dan M. Zulfikar. 2018. Serbuk daun jambu biji memperbaiki performans pertumbuhan dan morfologi duodenum ayam jawa super. *Jurnal Sain Veteriner*. 19 (4) : 554 - 567.
- Siregar, S.A., A. Nurmi, and M. Hasibuan. 2017. Pemberian ekstrak pegagan (*Centella asiatica*) terhadap performance ayam broiler. *Jurnal Peternakan*. 1(2): 23–27.
- Sinkalu, V. O., J. O. Ayo, J. O. Hambolu, A. B. Adelaiye, F. O. Zakari, and T. Aluwong. 2020. Changes in feed consumption and water intake among broiler chickens subjected to melatonin treatment during the hot-dry season. *Trop. Anim. Health Prod*. 52(2): 717-723.
- Soeparno, E. 2005. Ilmu dan Teknologi Daging. Cetakan Keempat. Gadjah Mada University Press, Yogyakarta.

- Sojoudi, M.R., M. Dadashbeiki, and M. Bouyeh. 2012. Effects of different levels of symbiotic, technomos on broilers performance. *Research Opinions in Animal and Veterinary Sciences*. 2(4): 243–248.
- Sulistyoningsih, M., M. Anas, D. Dan, and Nurwahyunani. 2014. Optimalisasi *feed additive* herbal terhadap bobot badan, lemak abdominal dan glukosa darah ayam broiler. *Bioma*. 3(2): 1–16.
- Sun, L. Z., K. Auerswald, R. Wenzel, and H. Schnyder. 2014. Drinking water intake of grazing steers: the role of environmental factors controlling canopy wetness. *J. Anim. Sci*. 92(1): 282-291.
- Suwanto. 2015. Potential of local food pumpkin (*Cucurbita moschata* Duch) as diversification of rice to food security. In: *Exploration and Conservation of Biodiversity. Proceeding of the International Conference on Life Sciences and Biotechnology*. Jember.
- Tabrany, H. 2001. Pengaruh proses pelayuan terhadap keempukan daging. Makalah Falsafah Sains Fakultas Pascasarjana. IPB, Bogor.
- Thakur, A., K. Manpreet, Walia, and S.L.H Kumar. 2013. Nanoemulsion in enhancement of bioavailability of poorly soluble drugs: A review. *Pharmacophore*. 4 (1): 15-25.
- Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo, and S. Lebdosoekojo. 1998. *Ilmu Makanan Ternak Dasar*. Gadjah Mada University Press, Yogyakarta.
- Timbermont, L., F. Haesebrouck, R. Ducatelle, and F. Van Immerseel. 2011. Necrotic enteritis in broilers: an updated review on the pathogenesis. *Avian Pathol*. 40(4): 341–347.
- Utami, D.P. 2011. Pembatasan ransum berpengaruh terhadap penambahan bobot badan ayam broiler pada periode pertumbuhan. *Mediagro*. 7(1): 59– 67.
- Utami, M. M. D. and D. Pantaya. 2016. Penggunaan ekstrak bawang putih dalam pakan terhadap performans ayam broiler tropis fase starter. in: *proc. national seminar on research and community service results*. Page: 72-75 in *Seminar Nasional Hasil Penelitian Dan Pengabdian Masyarakat 2016*, Jember.
- Wahju, J. 2004. *Ilmu Nutrisi Unggas*. Edisi Ke-4. Universitas Gadjah Mada Press, Yogyakarta.
- Widi, R.K. dan T. Indriati. 2007, Penjaringan dan identifikasi senyawa alkaloid dalam batang kayu kuning (*Arcangelisia Flava Merr*). *Jurnal Ilmu Dasar*. 8 (1) : 24 – 29.

- Widianto, B., H. Setyo Prayogi, and N. Nuryadi. 2015. Pengaruh penambahan tepung buah mengkudu (*Morinda citrifolia* L.) dalam pakan terhadap penampilan produksi itik hibrida. *Jurnal Ilmu-Ilmu Peternakan*. 25(2): 28– 35.
- Widyamanda, L.P., V.D.Y.B. Ismadi, and I. Estiningdriati. 2013. Pengaruh penambahan bangle (*Zingiber cas-sumunar*) dalam ransum terhadap total lipid dan kolesterol hati pada ayam broiler. *Animal Agriculture Journal*. 2(1): 183– 190.
- Wientarsih, I., S.D. Widhyari, T. Aryanti. 2013. Kombinasi imbuhan herbal kunyit dan zink dalam pakan sebagai alternatif pengobatan kolibasilosis pada ayam pedaging. *J. Vet.* 14 (3) : 327 – 334.
- Windisch, W.M., K. Schedle, C. Plitzner, and A. Kroismayr. 2008. Use of phytogenic products as feed additives for swine and poultry. *J. Anim. Sci.* 86: 140 – 148.
- Won, J., M.H. Oh, J.M. Oh, M.S. Kang, J.H. Choy, and S. Oh. 2008. Stability analysis of zinc oxide-nanoencapsulated conjugated linoleic acid and gamma-linolenic acid. *J. Food Sci.* 73(8): 39 - 43.
- Xu, Z.R., C.H. Hu, M.S. Xia, X.A. Zhan, and M.Q. Wang. 2003. Effects of dietary fructooligosaccharide on digestive enzyme activities, intestinal microflora and morphology of male broilers. *Poult. Sci.* 82 (6).
- Yadav, S. and R. Jha. 2019. Strategies to modulate the intestinal microbiota and their effects on nutrient utilization, performance, and health of poultry. *J. Anim. Sci. Biotechnol.* 10 (2) : 1 – 11.
- Yang, C., M. A. K. Chowdhury, Y. Hou, and J. Gong. 2015. Phytogenic compounds as alternatives to in-feed antibiotics: potentials and challenges in application. *Pathogens*. 4(1): 137 – 156.
- Yulianti, S., I. Yuanita, N. Suthama, dan H.I. Wahyuni. 2020. Kecernaan protein dan massa protein daging pada ayam broiler yang diberi kombinasi ekstrak bawang dayak dan *Lactobacillus acidophilus*. *Prosiding Seminar. Universitas Diponegoro, Semarang*.
- Zainuddin, Z., D. Masyitha, S. Sarayulis, M. Jalaluddin, E. Rahmi, dan I. Nasution. 2016. Gambaran histologi kelenjar intestinal pada duodenum ayam kampung (*Gallus domesticus*), merpati (*Columba domesticus*) dan bebek (*Anser anser domesticus*). *J. Med. Vet.* 10 (1) : 9 – 11.