

## DAFTAR PUSTAKA

- Abudabos, A.M., Okab, A.B., Aljumaah, R.S., Samara, E.M., Abdoun, K.A. and Al-Haidary, A.A., 2013. Nutritional value of green seaweed (*Ulva lactuca*) for broiler chickens. *Italian Journal of Animal Science*, 12(2), p.e28.
- Akinyemi, F. and Adewole, D., 2022. Effects of brown seaweed products on growth performance, plasma biochemistry, immune response, and antioxidant capacity of broiler chickens challenged with heat stress. *Poultry science*, 101(12), p.102215.
- Alagawany, M., Elnesr, S.S., Farag, M.R., Abd El-Hack, M.E., Khafaga, A.F., Taha, A.E., Tiwari, R., Yattoo, M.I., Bhatt, P., Khurana, S.K. and Dhama, K., 2019. Omega-3 and omega-6 fatty acids in poultry nutrition: effect on production performance and health. *Animals*, 9(8), p.573.
- Albab LU., Claudya TI., Oktafianti R., Salsabila N., Putri RD., and Saragih HTSSG. 2022. Growth performance, morphometric of the small intestine, lymphoid organ, and ovary of laying hens supplemented with Dates (*Phoenix dactylifera* L.) extract in drinking water. *Veterinary World*, 15(2): 350-359.
- Albrecht, E., Teuscher, F., Ender, K. and Wegner, J., 2006. Growth-and breed-related changes of muscle bundle structure in cattle. *Journal of Animal Science*, 84(11), pp.2959-2964.
- Anh, N.T.L., Kunhareang, S. and Duangjinda, M. 2015. Association of chicken growth hormones and insulin-like growth factor gene polymorphisms with growth performance and carcass traits in Thai broilers. *Asian-Australasian journal of animal sciences*, 28(12), p.1686.
- Anh, N.T.N., 2020. Nutritional values of green seaweed *Cladophoraceae* in brackish water bodies in the Mekong delta, Vietnam. *International Journal of Fisheries and Aquatic Studies*, 8(1), pp.282-286.
- Archer, G.S., 2023. Evaluation of an extract derived from the seaweed *Ascophyllum nodosum* to reduce the negative effects of heat stress on broiler growth and stress parameters. *Animals*, 13(2), p.259.
- Balasubramanian, B., Shanmugam, S., Park, S., Recharla, N., Koo, J.S., Andretta, I. and Kim, I.H., 2021. Supplemental impact of marine red seaweed (*Halymenia palmata*) on the growth performance, total tract nutrient digestibility, blood profiles, intestine histomorphology, meat quality, fecal gas emission, and microbial counts in broilers. *Animals*, 11(5), p.1244.

- Babatunde, O.O., Park, C.S. and Adeola, O., 2021. Nutritional potentials of atypical feed ingredients for broiler chickens and pigs. *Animals*, 11(5), p.1196.
- Berri, C., Le Bihan-Duval, E., Debut, M., Sante-Lhoutellier, V., Baéza, E., Gigaud, V., Jégo, Y. and Duclos, M.J., 2007. Consequence of muscle hypertrophy on characteristics of Pectoralis major muscle and breast meat quality of broiler chickens. *Journal of Animal Science*, 85(8), pp.2005-2011.
- Beski, S.S., Swick, R.A. and Iji, P.A., 2015. Specialized protein products in broiler chicken nutrition: A review. *Animal Nutrition*, 1(2), pp.47-53.
- Blair, R., 2018. *Nutrition and Feeding of Organic Poultry*. CABI.
- Blatama, D., Salsabila, N. and Saragih, H.T., 2023. Goloba kusi (Hornstedtia scottiana [F. Muell.] K. Schum.) fruit as a feed additive to improve the histological structures and growth performance of broiler. *Veterinary World*, 16 (2): 329–340.
- Brito, C.O., Junior, V.R., Del Vesco, A.P., de Castro Tavernari, F., Calderano, A.A., Silva, C.M., de Lima Maciel, J.T. and de Azevedo, M.S.P., 2020. Metabolizable energy and nutrient digestibility of shrimp waste meal obtained from extractive fishing for broilers. *Animal Feed Science and Technology*, 263, p.114467.
- Buzala, M. and Janicki, B., 2016. Effects of different growth rates in broiler breeder and layer hens on some productive traits. *Poultry Science*, 95(9), pp.2151-2159.
- Cabrol, M. B., Martins, J. C., Malhão, L. P., Alves, S. P., Bessa, R. J., Almeida, A. M., & Lordelo, M. 2022. Partial replacement of soybean meal with *Chlorella vulgaris* in broiler diets influences performance and improves breast meat quality and fatty acid composition. *Poultry Science*, 101(8), 101955.
- Chen, J.T., He, P.G., Jiang, J.S., Yang, Y.F., Wang, S.Y., Pan, C.H., Zeng, L., He, Y.F., Chen, Z.H., Lin, H.J. and Pan, J.M., 2022. In vivo prediction of abdominal fat and breast muscle in broiler chicken using live body measurements based on machine learning. *Poultry Science*, 102(1), p.102239.
- Chen, X.D., Ma, Q.G., Tang, M.Y. and Ji, C., 2007. Development of breast muscle and meat quality in Arbor Acres broilers, Jingxing 100 crossbred chickens and Beijing fatty chickens. *Meat Science*, 77(2), pp.220-227.
- Cherian, G., Fraz, A., Khan, I.A. and Brackeen, B., 2022. Evaluation of two types of ingredients from marine fish rest raw materials in broiler diets: effects on

- live performance and meat lipid composition. *Journal of Applied Poultry Research*, 31(3), p.100261.
- Chu, X., Zhou, Y., Zhang, S., Liu, S., Li, G. and Xin, Y., 2022. *Chaetomorpha linum* polysaccharides alleviate NAFLD in mice by enhancing the PPAR $\alpha$ /CPT-1/MCAD signaling. *Lipids in Health and Disease*, 21(1), pp.1-11.
- Choi, Y.J., Lee, S.R. and Oh, J.W., 2014. Effects of dietary fermented seaweed and seaweed fusiforme on growth performance, carcass parameters and immunoglobulin concentration in broiler chicks. *Asian-Australasian Journal of Animal Sciences*, 27(6), p.862.
- Choi, Y.M., Garcia, L.G. and Lee, K., 2019. Correlations of sensory quality characteristics with intramuscular fat content and bundle characteristics in bovine longissimus thoracis muscle. *Food science of animal resources*, 39(2), p.197.
- Classen, H.L., 2017. Diet energy and feed intake in chickens. *Animal Feed Science and Technology*, 233, pp.13-21.
- Clemmons, D.R. 2009. Role of IGF-I in skeletal muscle mass maintenance. *Trends in Endocrinology & Metabolism*, 20(7), pp.349-356.
- Corzo, A., Kidd, M.T., Dozier, W.A., Shack, L.A. and Burgess, S.C., 2006. Protein expression of pectoralis major muscle in chickens in response to dietary methionine status. *British Journal of Nutrition*, 95(4), pp.703-708.
- Dilawar, M.A., Saturno, J.F.L., Mun, H.S., Dae-Hun, K., Jeong, M.G. and Chul-Ju, Y., 2019. Influence of two plant extracts on broiler performance, oxidative stability of meat and odorous gas emissions from excreta. *Annals of Animal Science*, 19(4), pp.1099-1113.
- Elwinger, K., Fisher, C., Jeroch, H., Sauveur, B., Tiller, H. and Whitehead, C.C., 2016. A brief history of poultry nutrition over the last hundred years. *World's Poultry Science Journal*, 72(4), pp.701-720.
- Fang, C., Zhang, T., Zheng, H., Huang, J. and Cuan, K., 2021. Pose estimation and behavior classification of broiler chickens based on deep neural networks. *Computers and Electronics in Agriculture*, 180, p.105863.
- Farasat, M., Khavari-Nejad, R.A., Nabavi, S.M.B. and Namjooyan, F., 2013. Antioxidant properties of some filamentous green algae (*Chaetomorpha* Genus). *Brazilian archives of biology and technology*, 56, pp.921-927.

- Ferket, P.R, Gernat, A.G., 2006. Factors that affect feed intake of meat birds: A review. *International Journal of Poultry Science*, 5(10), pp.905-911.
- Fitriani, A., Daryanto, H.K., Nurmalina, R. and Susilowati, S.H., 2014. Impact on increasing concentration in Indonesian broiler industry. *International Journal of Poultry Science*, 13(4), p.191.
- Gayathiri, E., Mahalakshmi, P., Pratheep, T., Prakash, P., Selvam, K., Manivasagaperumal, R., Ragunathan, M.G., Jayanthi, J. and Kumaravel, P., 2022. In silico and in vitro approaches to evaluate the bioactivities of Chaetomorpha linum. *South African Journal of Botany*, 151, pp.581-590.
- Guiry in Guiry, M.D. & Guiry, G.M. 25 March 2022. AlgaeBase. World-wide electronic publication, National University of Ireland, Galway. <https://www.algaebase.org/>; diakses pada 05 Desember 2022
- Hamzaoui, A., Ghariani, M., Sellem, I., Hamdi, M., Feki, A., Jaballi, I., Nasri, M. and Amara, I.B., 2020. Extraction, characterization and biological properties of polysaccharide derived from green seaweed “Chaetomorpha linum” and its potential application in Tunisian beef sausages. *International journal of biological macromolecules*, 148, pp.1156-1168.
- Hidayat, R. and Wulandari, P., 2021. Euthanasia Procedure of Animal Model in Biomedical Research. *Bioscientia Medicina: Journal of Biomedicine and Translational Research*, 5(6), pp.540-544.
- Holdt, S.L. and Kraan, S., 2011. Bioactive compounds in seaweed: functional food applications and legislation. *Journal of applied phycology*, 23(3), pp.543-597.
- Hong, J., Han, T. and Kim, Y.Y., 2020. Mealworm (Tenebrio molitor Larvae) as an alternative protein source for monogastric animal: A review. *Animals*, 10(11), p.2068.
- Jachimowicz, K., Winiarska-Mieczan, A. and Tomaszewska, E., 2022. The Impact of Herbal Additives for Poultry Feed on the Fatty Acid Profile of Meat. *Animals*, 12(9), p.1054.
- Jung, K.A., Lim, S.R., Kim, Y. and Park, J.M., 2013. Potentials of macroalgae as feedstocks for biorefinery. *Bioresource technology*, 135, pp.182-190
- Kamboh, A.A., Leghari, R.A., Khan, M.A., Kaka, U., Naseer, M., Sazili, A.Q. and Malhi, K.K., 2019. Flavonoids supplementation-An ideal approach to improve quality of poultry products. *World's poultry science journal*, 75(1), pp.115-126.

- Kamboh, A.A. and Zhu, W.Y., 2013. Effect of increasing levels of bioflavonoids in broiler feed on plasma anti-oxidative potential, lipid metabolites, and fatty acid composition of meat. *Poultry Science*, 92(2), pp.454-461.
- Karamah, E.F. and Wajdi, N., 2018. Application of ozonated water to maintain the quality of chicken meat: effect of exposure time, temperature, and ozone concentration. *E3S Web of Conferences*, 67, p. 04044.
- Karr-Lilienthal, L.K., Kadzere, C.T., Grieshop, C.M. and Fahey Jr, G.C., 2005. Chemical and nutritional properties of soybean carbohydrates as related to nonruminants: A review. *Livestock Production Science*, 97(1), pp.1-12.
- Khalil, M.M., Abdollahi, M.R., Zaefarian, F., Chrystal, P.V. and Ravindran, V., 2021. Apparent metabolizable energy of cereal grains for broiler chickens is influenced by age. *Poultry Science*, 100(9), p.101288.
- Kim, M. and Voy, B.H., 2021. Fighting fat with fat: N-3 polyunsaturated fatty acids and adipose deposition in broiler chickens. *Frontiers in Physiology*, 12, p.755317.
- Kishawy, A. T., Amer, S. A., Abd El-Hack, M. E., Saadeldin, I. M., & Swelum, A. A. 2019. The impact of dietary linseed oil and pomegranate peel extract on broiler growth, carcass traits, serum lipid profile, and meat fatty acid, phenol, and flavonoid contents. *Asian-Australasian journal of animal sciences*, 32(8), 1161.
- Kulshreshtha, G., Rathgeber, B., Stratton, G., Thomas, N., Evans, F., Critchley, A., Hafting, J. and Prithiviraj, B., 2014. Feed supplementation with red seaweeds, *Chondrus crispus* and *Sarcodiotheca gaudichaudii*, affects performance, egg quality, and gut microbiota of layer hens. *Poultry Science*, 93(12), pp.2991-3001.
- Kutzing, F.T., 1845. di Deutschlands Algen in bundigen Beschreibungen: Nebst einer Anleitung zum Untersuchen und Bestimmen dieser Gewächse für Anfänger. *Phycologia germanica*, pp.240
- Ktita, S.R., Chermiti, A. and Mahouachi, M., 2010. The use of seaweeds (*Ruppia maritima* and *Chaetomorpha linum*) for lamb fattening during drought periods. *Small Ruminant Research*, 91(1), pp.116-119.
- Lee, B., Kim, D. H., Lee, J., Cressman, M. D., Choi, Y. M., & Lee, K. (2023). Greater numbers and sizes of muscle bundles in the breast and leg muscles of broiler compared to layer chickens. *Frontiers in Physiology*, 14, 1285938.

- Li, D., Pan, Z., Zhang, K., Yu, M., Yu, D., Lu, Y., Wang, J., Zhang, J., Zhang, K. and Du, W., 2020. Identification of the differentially expressed genes of muscle growth and intramuscular fat metabolism in the development stage of yellow broilers. *Genes*, 11(3), p.244.
- Liani, Y.A., Munthe, I.R., Irmayani, D., Broto, B.E., Yanris, G.J., Prasetya, D.A., Haryanto, R., Adi, P.D.P., Muslikh, A.R. and Arifuddin, R., 2021, July. The Broiler Chicken Coop Temperature Monitoring Use Fuzzy Logic and LoRAWAN. In *2021 3rd International Conference on Electronics Representation and Algorithm (ICERA)*, pp. 161-166.
- Mawaddah, M., Setiawan, H. and Saragih, H.T.S.S.G., 2020. Aktivitas ekstrak etanolik daun jambu mete terhadap otot pectoralis thoracicus ayam jawa super. *Jurnal Peternakan Indonesia (Indonesian Journal of Animal Science)*, 22(1), pp.80-88.
- Martínez, Y. and Valdivié, M., 2021. Efficiency of Ross 308 broilers under different nutritional requirements. *Journal of Applied Poultry Research*, 30(2), p.100140.
- McNeal, W.D., Fletcher, D.L. and Buhr, R.J., 2003. Effects of stunning and decapitation on broiler activity during bleeding, blood loss, carcass, and breast meat quality. *Poultry Science*, 82(1), pp.163-168.
- Michalczuk, M., Stępińska, M. and Łukasiewicz, M., 2011. Effect of the initial body weight of Ross 308 chicken broilers on the rate of growth. *Annals of Warsaw University of Life Sciences-SGGW Animal Science*, 49, pp.121-125.
- Mohammadigheisar, M., Shouldice, V.L., Sands, J.S., Lepp, D., Diarra, M.S. and Kiarie, E.G., 2020. Growth performance, breast yield, gastrointestinal ecology and plasma biochemical profile in broiler chickens fed multiple doses of a blend of red, brown and green seaweeds. *British Poultry Science*, 61(5), pp.590-598.
- Munyaneza, J.P., Ediriweera, T.K., Kim, M., Cho, E., Jang, A., Choo, H.J. and Lee, J.H., 2022. Genome-wide association studies of meat quality traits in chickens: a review. *Korean Journal of Agricultural Science*, 49(3), pp.407-420.
- Muyyarikkandy, M. S., Schlesinger, M., Ren, Y., Gao, M., Liefeld, A., Reed, S., & Amalaradjou, M. A. (2023). In ovo probiotic supplementation promotes muscle growth and development in broiler embryos. *Poultry Science*, 102(7), 102744.



- Nalunga, A., Komakech, A.J., Jjagwe, J., Magala, H. and Lederer, J., 2021. Growth characteristics and meat quality of broiler chickens fed earthworm meal from *Eudrilus eugeniae* as a protein source. *Livestock Science*, 245, p.104394.
- Odjo, D.P.S., Malumba, K.P., Beckers, Y. and Béra, F., 2015. Impact of drying and heat treatment on the feeding value of corn: A review. *Biotechnologie, Agronomie, Société et Environnement*, 19(3), pp 301-312.
- Oktafianti, R. and Saragih, H.T., 2020. Morfologi otot pektoralis ayam petelur [*Gallus gallus gallus* (Linnaeus, 1758)] betina setelah pemberian infusa buah kurma (*Phoenix dactilifera* L.). *Prosiding SNPBS (Seminar Nasional Pendidikan Biologi dan Saintek)*, pp. 664-671.
- Park, J.H., Kang, S.N., Chu, G.M. and Jin, S.K., 2014. Growth performance, blood cell profiles, and meat quality properties of broilers fed with *Saposhnikovia divaricata*, *Lonicera japonica*, and *Chelidonium majus* extracts. *Livestock Science*, 165, pp.87-94.
- Payne, R.L., Bidner, T.D., Southern, L.L. and McMillin, K.W., 2001. Dietary effects of soy isoflavones on growth and carcass traits of commercial broilers. *Poultry Science*, 80(8), pp.1201-1207.
- Petracci, M., Mudalal, S., Soglia, F., & Cavani, C. 2015. Meat quality in fast-growing broiler chickens. *World's Poultry Science Journal* 71(2), 363–374.
- Pirgozliev, V., Mansbridge, S.C., Rose, S.P., Lillehoj, H.S. and Bravo, D., 2019. Immune modulation, growth performance, and nutrient retention in broiler chickens fed a blend of phytogenic feed additives. *Poultry science*, 98(9), pp.3443-3449.
- Prakash, A., Saxena, V.K. and Singh, M.K., 2020. Genetic analysis of residual feed intake, feed conversion ratio and related growth parameters in broiler chicken: A review. *World's Poultry Science Journal*, 76(2), pp.304-317.
- Prihambodo, T.R., Sholikin, M.M., Qomariyah, N., Jayanegara, A., Batubara, I., Utomo, D.B. and Nahrowi, N., 2021. Effects of dietary flavonoids on performance, blood constituents, carcass composition and small intestinal morphology of broilers: a meta-analysis. *Animal Bioscience*, 34(3), p.434.
- Puspita, U.E., Saragih, H.T.S.S.G., Hartatik, T. and Daryono, B.S., 2021. Body Weight Gain and Carcass Quality of the Hybrid Chicken Derived from the Crossing between Female F1 Kampung Super and Male F1 Kampung-Broiler. *Journal of Tropical Biodiversity and Biotechnology*, 6(2), p.60934.

- Puvača, N., Brkić, I., Jahić, M., Roljević Nikolić, S., Radović, G., Ivanišević, D., Đokić, M., Bošković, D., Ilić, D., Brkanlić, S. and Prodanović, R., 2020. The effect of using natural or biotic dietary supplements in poultry nutrition on the effectiveness of meat production. *Sustainability*, 12(11), p.4373.
- Qin, L., Yang, Y., Hao, J., He, X., Liu, S., Chu, X. and Mao, W., 2022. Antidiabetic-activity sulfated polysaccharide from *Chaetomorpha linum*: Characteristics of its structure and effects on oxidative stress and mitochondrial function. *International Journal of Biological Macromolecules*, 207, pp.333-345.
- Rafiei, F. and Khajali, F., 2021. Flavonoid antioxidants in chicken meat production: Potential application and future trends. *World's Poultry Science Journal*, 77(2), pp.347-361.
- Ramadhanti, A. R., Puspita, N. O. J., Refalta, C. F., Kurnianto, H., and Saragih, H. T. S. 2021. Performance of male layer fed ration containing green algae (*Spirogyra jaoensis*) extract. *Tropical Animal Science Journal*, 44(1): 100-107.
- Rapi, A., Arifin, A.N. and Lando, A.T., 2020, July. The manufacture of automatic chicken feed making machines as an economical solution for chicken farmers in Indonesia. *IOP Conference Series: Materials Science and Engineering*, 885(1), p. 012044.
- Ravindran, V., 2013. Poultry feed availability and nutrition in developing countries. *Poultry development review*, 2, pp.60-63.
- Ravindran, V., Abdollahi, M.R., 2021. Nutrition and digestive physiology of the broiler chick: State of the art and outlook. *Animals*, 11(10), p.2795.
- Rijn, C.M.V., Krijnen, H., Menting-Hermeling, S. and Coenen, A.M., 2011. Decapitation in rats: latency to unconsciousness and the 'wave of death'. *PloS one*, 6(1), p.e16514.
- Ripol, A., Cardoso, C., Afonso, C., Varela, J., Quental-Ferreira, H., Pousão-Ferreira, P. and Bandarra, N.M., 2018. Composition, anti-inflammatory activity, and bioaccessibility of green seaweeds from fish pond aquaculture. *Natural Product Communications*, 13(5), pp. 603-608
- Rjiba-Ktita, S., Chermiti, A., Valdés, C. and López, S., 2019. Digestibility, nitrogen balance and weight gain in sheep fed with diets supplemented with different seaweeds. *Journal of Applied Phycology*, 31(5), pp.3255-3263.



- Rosa, G.P., Tavares, W.R., Sousa, P.M., Pagès, A.K., Seca, A.M. and Pinto, D.C., 2019. Seaweed secondary metabolites with beneficial health effects: An overview of successes in in vivo studies and clinical trials. *Marine drugs*, 18(1), p.8.
- Roy, B.C., Oshima, I., Miyachi, H., Shiba, N., Nishimura, S., Tabata, S. and Iwamoto, H., 2006. Effects of nutritional level on muscle development, histochemical properties of myofibre and collagen architecture in the pectoralis muscle of male broilers. *British Poultry Science*, 47(4), pp.433-442.
- Santoso, I.H. and Sudaryani, I.T., 2015. *Panduan praktis pembesaran ayam pedaging*. Penebar Swadaya Grup.
- Saragih, H.T., Muhamad, A.A.K., Alfianto, A., Viniwidihastuti, F., Untari, L.F., Lesmana, I., Widyatmoko, H. and Rohmah, Z., 2019. Effects of *Spirogyra jaoensis* as a dietary supplement on growth, pectoralis muscle performance, and small intestine morphology of broiler chickens. *Veterinary World*, 12(8), p.1233.
- Saragih, H.T.S.S.G., Alawi, M.F., Rafieiy, M., Lesmana, I., Sujadmiko, H. 2017. Pakan Aditif Ekstrak Etanol Lumut Hati Meningkatkan Pertumbuhan Morfologi Duodenum dan Perkembangan Otot Dada Ayam Pedaging. *Jurnal Veteriner*. 18(4): 617-623.
- Saragih, H.T.S.S.G. and Daryono, B.S., 2012. Effect of high-protein diet on body weight and pectoralis thoracicus muscle performance on pelung and broiler chicken (*Gallus gallus domesticus*). *Animal Production*, 14(3).
- Saxena, R., Saxena, V.K., Tripathi, V., Mir, N.A., Dev, K., Begum, J., Agarwal, R. and Goel, A. 2020. Dynamics of gene expression of hormones involved in the growth of broiler chickens in response to the dietary protein and energy changes. *General and comparative endocrinology*, 288, p.113377.
- Scheuermann, G.N., Bilgili, S.F., Tuzun, S. and Mulvaney, D.R., 2004. Comparison of chicken genotypes: myofiber number in pectoralis muscle and myostatin ontogeny. *Poultry Science*, 83(8), pp.1404-1412.
- Schiavone, A., Dabbou, S., Petracci, M., Zampiga, M., Sirri, F., Biasato, I., Gai, F. and Gasco, L., 2019. Black soldier fly defatted meal as a dietary protein source for broiler chickens: Effects on carcass traits, breast meat quality and safety. *Animal*, 13(10), pp.2397-2405.

- Schmidt, C.J., Persia, M.E., Feierstein, E., Kingham, B. and Saylor, W.W., 2009. Comparison of a modern broiler line and a heritage line unselected since the 1950s. *Poultry science*, 88(12), pp.2610-2619.
- Schwarz, T., Połtowicz, K., Nowak, J., Murawski, M., Małopolska, M.M., Andres, K., Wojtysiak, D., Jamieson, M. and Bartlewski, P.M., 2019. Quantitative echotextural attributes of pectoralis major muscles in broiler chickens: Physicochemical correlates and effects of dietary fat source. *Animals*, 9(6), p.306.
- Shakouri, M.D. and Malekzadeh, M., 2016. Responses of broiler chickens to the nutrient recommendations of NRC (1994) and the Ross broiler management manual. *Revista Colombiana de Ciencias Pecuarías*, 29(2), pp.91-98.
- Song, X., Xu, Q., Zhou, Y., Lin, C. and Yang, H., 2017. Growth, feed utilization and energy budgets of the sea cucumber *Apostichopus japonicus* with different diets containing the green tide macroalgae *Chaetomorpha linum* and the seagrass *Zostera marina*. *Aquaculture*, 470, pp.157-163.
- Sorce, C., Leporatti, M.P. and Lenzi, M., 2018. Growth and physiological features of *Chaetomorpha linum* (Müller) Kütz. in high density mats. *Marine pollution bulletin*, 129(2), pp.772-781.
- Stabili, L., Acquaviva, M.I., Angilè, F., Cavallo, R.A., Cecere, E., Del Coco, L., Fanizzi, F.P., Gerardi, C., Narracci, M. and Petrocelli, A., 2019. Screening of *Chaetomorpha linum* lipidic extract as a new potential source of bioactive compounds. *Marine drugs*, 17(6), p.313.
- Stabili, L., Cecere, E., Licciano, M., Petrocelli, A., Sicuro, B. and Giangrande, A., 2019. Integrated multitrophic aquaculture by-products with added value: The polychaete *Sabella spallanzanii* and the seaweed *Chaetomorpha linum* as potential dietary ingredients. *Marine drugs*, 17(12), p.677.
- Subakir, F.N.M., Ishak, N.I., Samah, N.A., Aziz, K.A.A. and Zaharudin, N., 2021. The effects of seaweed-based pellet binders on growth performance, feed efficiency and carcass characteristics in broilers. *Animal Feed Science and Technology*, 272, p.114786.
- Sutour, S., Tao, X.U., Casabianca, H., Paoli, M., de Rocca-Serra, D., Garrido, M., Pasqualini, V., Aiello, A., Castola, V. and Bighelli, A., 2015. Chemical composition of extracts from *Chaetomorpha linum* (Miller) Kütz. A potential use in the cosmetic industry. *International Journal of Phytocosmetics and Natural Ingredients*, 2(1), pp.5-5.

- Tallentire, C.W., Leinonen, I. and Kyriazakis, I., 2016. Breeding for efficiency in the broiler chicken: a review. *Agronomy for Sustainable Development*, 36(4), pp.1-16.
- Tenrisanna, V. and Kasim, S.N., 2020. Trends and forecasting of meat production and consumption in Indonesia: Livestock development strategies. In *IOP conference series: Earth and Environmental Science*, 492(1), pp. 012156.
- Titlyanov, A.E., Titlyanova, V.T., Li, X. and Huang, H., 2016. *Coral reef marine plants of Hainan Island*. Academic Press.
- Tůmová, E. and Teimouri, A., 2009. Chicken muscle fibres characteristics and meat quality: a review. *Scientia Agriculturae Bohemica*, 40(4), pp.253-258.
- Vanany, I., Maftuhah, D.I., Jaelani, L.M., Hajar, G. and Utami, N.M.C., 2019, December. Modeling of chicken production for food security in Indonesia. In *2019 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)*, pp. 627-631.
- Velleman, S.G. and McFarland, D.C., 2015. Skeletal muscle. *Sturkie's avian physiology* (pp. 379-402). Academic Press.
- Velleman, S.G. 2019. Recent developments in breast muscle myopathies associated with growth in poultry. *Annual Review of Animal Biosciences*, 7, pp.289-308.
- Wahyono, N.D. and Utami, M.M.D., 2018. A review of the poultry meat production industry for food safety in Indonesia. *Journal of Physics: conference series*, 953(1), p. 012125.
- Willemsen, H., Everaert, N., Witters, A., De Smit, L., Debonne, M., Verschuere, F., Garain, P., Berckmans, D., Decuypere, E. and Bruggeman, V., 2008. Critical assessment of chick quality measurements as an indicator of posthatch performance. *Poultry science*, 87(11), pp.2358-2366.
- Xu, S., Xu, S., Zhou, Y., Zhao, P., Yue, S., Song, X., Zhang, X., Gu, R., Wang, P. and Zhang, Y., 2019. Single beam sonar reveals the distribution of the eelgrass *Zostera marina* L. and threats from the green tide algae *Chaetomorpha linum* K. in Swan-Lake lagoon (China). *Marine pollution bulletin*, 145, pp.611-623.
- Yalcin, S., Aksit, M., Ozkan, S., Hassanzadeh, M., Bilgen, G., Helva, I. B., & Yilmaz, M. C. 2022. Effect of temperature manipulation during incubation on body weight, plasma parameters, muscle histology, and expression of

myogenic genes in breast muscle of embryos and broiler chickens from two commercial strains. *British Poultry Science*, 63(1), 21-30.

Yang, S.L., Yang, R.C., Zhou, X., Yang, S.H., Liao, F.Y., Yao, B.N., Zhu, B.G. and Pongchan, N.L., 2022. Effects of dietary supplementation of flavonoids from *Moringa* leaves on growth and laying performance, immunological and antioxidant activities in laying ducks. *Journal of Applied Poultry Research*, p.100318.

Zampiga, M., Calini, F. and Sirri, F., 2021. Importance of feed efficiency for sustainable intensification of chicken meat production: implications and role for amino acids, feed enzymes and organic trace minerals. *World's Poultry Science Journal*, 77(3), pp.639-659.

Zhang, S. and Kim, I.H., 2020. Effect of quercetin (flavonoid) supplementation on growth performance, meat stability, and immunological response in broiler chickens. *Livestock Science*, 242, p.104286.

Zhang, X., Zhou, Y., Liu, P., Wang, F., Liu, B., Liu, X., Xu, Q. and Yang, H., 2014. Temporal pattern in the bloom-forming macroalgae *Chaetomorpha linum* and *Ulva pertusa* in seagrass beds, Swan Lake lagoon, North China. *Marine pollution bulletin*, 89(1-2), pp.229-238.

Zhao, Y., Balasubramanian, B., Guo, Y., Qiu, S.J., Jha, R. and Liu, W.C., 2021. Dietary *Enteromorpha* polysaccharides supplementation improves breast muscle yield and is associated with modification of mRNA transcriptome in broiler chickens. *Frontiers in veterinary science*, 8, p.663988.

Zhou, Y., Mao, S., & Zhou, M. 2019. Effect of the flavonoid baicalein as a feed additive on the growth performance, immunity, and antioxidant capacity of broiler chickens. *Poultry science*, 98(7), 2790-2799.

Zhou, Y., Ruan, Z., Li, X. L., Mi, S. M., Jiang, M., Liu, W. H., ... & Yin, Y. L. 2016. *Eucommia ulmoides* Oliver leaf polyphenol supplementation improves meat quality and regulates myofiber type in finishing pigs. *Journal of Animal Science*, 94(suppl\_3), 164-168.