

DAFTAR PUSTAKA

- Amarwati, H., Subandiyono, dan Pinandoyo. 2015. Pemanfaatan tepung daun singkong (*Manihotutilissima*) yang difermentasi dalam pakan buatan terhadap pertumbuhan benih ikan nila merah (*Oreochromis niloticus*). *Journal of Aquaculture Management and Technology* 4(2): 51-59.
- Arifin, M.Y. 2016. Pertumbuhan dan *survival rate* ikan nila (*Oreochromis sp.*) strain merah dan strain hitam yang dipelihara pada media bersalinitas. *Jurnal Ilmiah Universitas Batanghari Jambi* 16(1): 159-166.
- Asriyanti, I.N., H. Johannes, dan E.H Vivi. 2018. Pengaruh penggunaan tepung *lemna sp.* Terfermentasi pada pakan buatan terhadap tingkat pemanfaatan pakan, pertumbuhan, dan kelulushidupan benih ikan lele dumbo (*Clarias gariepinus*). *e-Journal Rekayasa dan Teknologi Budidaya Perairan* 7(1): 783-798.
- Badan Pusat Statistik. 2021. Impor Kedelai Menurut Negara Asal Utama Tahun 2010-2020. <<http://www.bps.go.id/statistictable/2019/02/14/2015/impor-kedelai-menurut-negara-asal-utama-tahun-2010-2020>>. Diakses pada 23 September 2021.
- Badan Standarisasi Nasional. 2006. SNI 01-7242-2006 Pakan Buatan untuk Ikan Nila (*Oreochromis spp.*) pada Budidaya Intensif. Badan Standarisasi Nasional. Jakarta.
- Badan Standarisasi Nasional. 2009. SNI 6141:2009 Produksi benih ikan nila hitam (*Oreochromis niloticus* Bleeker) kelas benih sebar. Badan standarisasi nasional. Jakarta.
- Barrows, P.A. and Hardy. 2001. Probiotic for Chickens. In: *Probiotic the scientific basis*. Chapman & Hall, London
- Boyd, C.E. 1969. Nutritive Value of Three Species of Water Weeds. New York Botanical Garden Press, New York
- Boyd, C.E., and C. S. Tucker. 1998. *Pond Aquaculture Water Quality Management*. Kluwer Academic Publisher, Amsterdam
- Boyd, C.E., and C. S. Tucker. 2016. Alkalinity and Hardness: Critical but Elusive Concept in Aquaculture. *Journal of The World Aquaculture Society* 47(1): 6-42.
- Chapman, D., J.A. Coetzee., M.P. Hill, and A. Hussner. 2017. *Pistia Stratiotes* L. *Bulletin OEPP/EPPO* 2017: 1-7.

- Day, C. N. and R.O. Morawicki. 2018. Effects of fermentation by yeast and amylolytic lactic acid bacteria on grain sorghum protein content and digestibility. *Journal of Food Quality* 2018(4): 1-8.
- Erlania. 2012. Eksistensi industry tepung ikan di Kota Tegal, Jawa Tengah. *Media Akuakultur* 7(1): 39-43.
- Gunawan, G. and K. Munawwar. 2015. Analisa proksimat formulasi pakan dengan penambahan bahan baku hewani yang berbeda. *Acta Aquatica* 2(1): 23-30.
- Gunawan, G., Adelina, and I. Suharno. 2021. Pemanfaatan tepung kayu apu (*Pistia stratiotes* L.) terfermentasi dalam pakan buatan terhadap pertumbuhan benih ikan baung (*Hemibagrus nemurus*). *Jurnal Ilmu Perairan* 9(1): 23-30.
- Gusain, R. and S. Suthar. 2017. Potential of aquatic weeds (*Lemna gibba*, *Lemna minor*, *Pistia stratiotes*, and *Eichornia* sp.) in biofuel production. *Proces Safety and Environmental Protection* 109(2017): 233-241.
- Hadie, L., R. Dewi, dan W. Hadie. 2017. Efektivitas strain ikan nila srikandi (*Oreochromis niloticus*) dalam perbenihan skala massal. *Jurnal Iktiologi Indonesia*, 13(1): 13-23.
- Halver, J.E. and R.W. Hardy. 2002. *Fish Nutrition*, third ed. Academic Press, New York, NY. USA.
- Hepher, B. 1980. *Nutrition on Pond Fisheries*. Cambridge University Press, Cambridgeshire.
- Hoar, W.S., D.J Randal, and J.R Brett. 1979. *Fish Physiology*. Academic Press. New york
- Iskandar R. dan Elrifadah. 2015. Pertumbuhan dan efisiensi pakan ikan nila (*Oreochromis niloticus*) yang diberi pakan buatan berbasis kiambang. *Ziraa'ah* 40(1): 18-24.
- ITIS Report. 2010. *Pistia stratiotes*. <<https://www.itis.gov>>. Diakses 22 Agustus 2021.
- Kucuk, S., K. Aslihan, Y. Sukru, and G. Kutsal. 2013. Effect of salinity on growth and metabolism in blue tilapia (*Oreochromis aureus*). *African Journal of Biotechnology* 12(9): 2715-2721.
- Kuhad R.C., G. Rishi, dan A. Singh. 2011. Microbial cellulose and their industrial application. *Enzyme Research* 2011(1): 1-10.
- Li, Y. and F. Cui. 2009. *Microbial Lactic Acid Production from Renewable Resources*. Department of Food, Agricultural and Biological Engineering, Ohio Agricultural Research and Development Center, Ohio State University, Ohio.
- Likimani, T.A. and R.P. Wilson. 1982. Effect of diet on lipogenic enzyme activity in channel catfish hepatic and adipose tissue. *Journal of Nutrition* 112(1): 112-117.

- Maina, J.G., R.M Beames, D. Hinggs, P.N. Mbugua, G. Iwama, and M. Kisia. 2001. Digestibility and feeding value of some feed ingredient fed to tilapia (*Oreochromis niloticus*). *Aquaculture Research* 33(2002): 853-862.
- Mandal, S. and K. Ghosh. 2019. Utilization of fermented pistia leaves in the diet of rohu, (*Labeo rohita* H.): effects on growth, digestibility, and whole body composition. waste and biomass. *Valorization* 10(2019): 3331-3342.
- Mangisah, I., S. Nyoman, and R. Heni. 2020. Feeding combination of *Lactobacillus casei* and extracts of dahlia tuber or garlic on intestinal bacteria, nutrients digestibility, and performance of broiler chickens. *Jurnal-Jurnal Ilmu Peternakan* 30(2): 158-166.
- Masnyur, A. dan Kamarudin. 2006. Analisis bahan dan manfaatnya dalam menyusun formulasi pakan ikan budidaya. *Media Akuakultur* 1(3): 113-117.
- Nisha, S.N. and B. Geetha. 2017. Effect of partial replacement of fish meal with aquatic weed *Pistia stratiotes* meal on growth, biochemical composition, haematological parameters and digestive enzymes in indian major carp *Labeo rohita*. *International Journal of Fisheries and Aquatic Studies* 5(2): 527-532.
- Orire, A.M. and S.O.E Sadiku. 2014. Effect of carbohydrate sources on the growth and body composition of african catfish (*Clarias gariepinus*). *International Journal of Fisheries and Aquaculture* 6(5): 55-61.
- Pamungkas, W. 2011. Teknologi fermentasi, alternatif solusi dalam upaya pemanfaatan bahan pakan lokal. *Media Akuakultur* 6(1): 43-48.
- Pandey, G. 2013. Feed formulation and feeding technology for fishes. *International Research Journal of Pharmacy* 4(3): 23-30.
- Prawitasari, R. H., V.D.Y.B Ismadi, dan I. Estiningdriati. 2012. Kecernaan protein kasar dan serat kasar serta laju digesta pada ayam arab yang diberi ransum dengan berbagai level *Azolla microphylla*. *Animal Agriculture Journal* 1(1): 471-483.
- Renner, S.S. and L.B. Zhang. 2004. Biogeography of the *Pistia* clade (Araceae): based on chloroplast and mitochondrial DNA sequence and bayesian divergence time inference. *Journal System Boil* 53(3): 422-432.
- Rodde, C., C. Beatrice, V. Marc, Q.T Trong., A.H.B. John, and D.V Hugues. 2020. Can individual feed conversion ratio at commercial size be predicted from juvenile performance in individually reared nila tilapia *Oreochromis niloticus*. *Aquacultur Report* 17(2020): 1-8.

- Rustadi. 2018. Manajemen Akuakultur Tawar. Kanisius, Yogyakarta.
- Satu Data KKP. 2020. Produksi Nila. <[Http://satudata.kkp.go.id](http://satudata.kkp.go.id)>. Diakses 25 Agustus 2021
- Shapovalov, M. I. and M. A. Saprykin. 2016. Alien species *Pistia stratiotes* L. (Araceae) in water bodies of urbanized territories of Southern Russia. Russian Journal of Biological Invasions 7(2):195-199.
- Shearer K. D., A. Maage, J. Opstvedt, and H. Mundheim. 1992. Effect of high ash diets on growth, feed efficiency, and zinc status of juvenile atlantic salmon (*Salmo salar*). Aquaculture 106(1992): 345-355.
- Shoko A.P., M.L. Samwel, D.J.M. Hillary, and D.M. Yunus. 2014. A comparisson of diurnal dynamics of water lettuce parameter in nile tilapia (*Oreochromis niloticus*, Linnaeus, 1758) monoculture and polyculture with african sharp tooth catfish (*Clarias gariepinus*, Burchell 1822) in earthen pond. International Aquatic Research 6(56): 1-13.
- Siano F., S. Billoto, M. Nazzaro, G.L. Russo, D.I. Stasio, and M.G. Volpe. 2016. Effect of conventional and organic feed on the mineral composition of culture european sea bass (*Dicentrarchus labrax*). Aquaculture Nutrition 23(2017): 796-804.
- Siregar, M., Adelina, dan I. Suharman. 2020. Pemanfaatan Tepung Daun Kayu Apu (*Pistia stratiotes*) yang difermentasi *Trichoderma harzianum* dalam Pakan untuk Pertumbuhan Benih Ikan Patin Siam (*Pangasius hypophthalmus*). Jurnal Akuakultur SEBATIN 1(1): 41-50.
- Sitompul R., E. Erwan, dan E. Saleh. 2020. Pemanfaatan tepung daun apu-apu (*Pistia stratiotes*) dalam ransum basal terhadap organ pencernaan ayam ras pedaging. Jurnal Peternakan 17(1): 17-24.
- Stansburry, P.F., A. Whitaker, dan S.J. Hall. 1995. Principle of Fermentation Technology 2nd ed. Elsevier. London
- Susanto, A., H. Johanes, A. Sutrisno, and Subandiyono. 2020. The effect of carbohydrat level on the growth performance, body composition, and feed utilization of juvenile kelabau (*Osteichillus melanopterus*). AACL Bioflux 13(4): 2061-2079.
- Tahapari, E., D. Jadmiko, R. Adam, and S. Priadi. 2019. Penambahan vitamin e dalam pakan terhadap kualitas reproduksi induk ikan nila (*Oreochromis niloticus*). Jurnal Riset Akuakultur 14(4): 243 -252.

- Tesfahun, A. and M. Temesgen. 2018. Food and feeding habit of Nile tilapia (*Oreochromis niloticus* L.) from Abu-Zaabal Lakes, Egypt. *World Applied Science Journal* 6(1): 43-47.
- Teye, M., S.K Chikpak., F.N.A Odoi, and Nuamah. 2015. Chemical and nutritional composition of water lettuce (*Pistia Stratiotes*) plant harvested from different sources in Cape Coast, Ghana. 19th Biennial Conference of Ghana Society Animal Production Proceeding. Cape Coast, Ghana. 5 Agustus 2015
- Tucker Craig S. and T.A. Debusk. 1981. Productivity and nutritive value of *Pistia stratiotes* and *Eichhornia crassipes*. *Journal Aquatic Plant Manage* 19(1981): 61-63.
- Velasquez, C., Y.C Kijora, V. Agudelo-Martinez, and C. Shculz. 2014. Inclusion of fermented aquatic plants as feed resources for cachama blanca (*Piarctus brachycephalus*) fed low-fish meal diet. *Orinoquia* 18(2): 229-236.
- Velikovaa, P., K. Petrovb, V. Lozanovc, F. Tsvetanovab, A. Stoyanova, Z. Wud, Z. Liud, dan P. Petrova. Microbial diversity and health promoting properties of the traditional Bulgarian yogurt. *Biotechnology & Biotechnological Equipment* 32(5): 1205–1217.
- Wang, J., C. Lei, Y. Xian-jun, G. Gang, L. Jun-feng, B. Yun-feng, and S. Tao. 2015. Effect of molasses on the fermentation characteristic of mix silage prepared with rice straw, local vegetable, and alfalfa in Southeast China. *Journal of Integrative Agriculture* 16(3): 664-670.
- Wasagu, R. S. U., M. Lawal, S. Shehu, H. Alfa, and C. Muhammad. 2014. Nutritive value, mineral, and antioxidant properties of *Pistia stratiotes* (water lettuce). *Nigerian Journal of Basic and Applied Science* 21(4): 253-257.
- Watanabe, W.O., M.L. Thomas, F. Kevin, and H. Fred. 2002. Tilapia production system in the America: technological advances, trends, and challenges. *Reviews in Fisheries Science* 10(364): 465-498.
- Wati, R., Sumarsono, and Surahmanto. 2012. Kadar protein kasar dan serat kasar enceng gondok sebagai sumber daya pakan di perairan yang mendapat limbah kotoran itik. *Animal Agricultural Journal* 1(1): 181-191.
- Weimin, M. and W. Weiwei. 2020. Trend of aquaculture production and trade: carp, tilapia, and shrimp. *Asian Fisheries Science* 33(1): 1-10.
- Widyatmoko, H. Effendi, and T.M.P Niken. 2019. Pertumbuhan dan sintasan ikan nila, (*Oreochromis niloticus* L.) pada sistem akuaponik dengan padat tanaman vetiver (*Vetiveria zizanioides* L.) yang berbeda. *Jurnal Iktiologi Indoensia* 19(1): 157-166.

- Wilson, R.P. 1994. Utilization of dietary carbohydrate by fish. *Aquaculture* 124(1994): 67-80.
- Wurts, W.A., and R.M Durborow. 1992. Interactions of pH, Carbon Dioxide, Alkalinity, and Hardness in Fish Ponds. Southern Regional Aquaculture Center, Mississippi
- Yong, A.S.K., Y.O. Shing, S. Rossita, K.B. Amal, and K. Takii. 2015. Effect of dietary lipid increment on growth performance, feed utilization, carcass composition and intraperitoneal fat of marble goby (*Oxyeleotris marmorata*), juveniles. *Turkish Journal of Fisheries and Aquatic Science* 1(15): 653-660.
- Zivkovic, M.M., A.A. Andelkovic, L.J. Dusanka, and Cvanjovic. The beginning of *Pistia Stratiotes* invasion in the lower Danube Delta: the first record for the Province of Vojvodina (Serbia). *Journal Bioinvasions Records* 8(2): 218-229.
- Zubaidah, E., E. Martati, and A. Resmanto. 2014. Pertumbuhan isolate BAL asal bekatul dan probiotik komersial (*Lactobacillus acidophilus* dan *Lactobacillus casei*) pada media bekatul dan susu skim. *Jurnal Bioteknologi & Biosains Indonesia* 1(1): 27-37.