

DAFTAR PUSTAKA

- (1) Gómez, C.; Currey, C. J.; Dickson, R. W.; Kim, H. J.; Hernández, R.; Sabeh, N. C.; Raudales, R. E.; Brumfield, R. G.; Laury-Shaw, A.; Wilke, A. K.; Lopez, R. G.; Burnett, S. E. Controlled Environment Food Production For Urban Agriculture. *Hortscience* 2019, 54 (9), 1448–1458.
- (2) Nugroho, R. A.; Pambudi, L. T.; Chilmawati, D.; Condro, H. Aplikasi Teknologi Aquaponic Pada Budidaya Ikan Air Tawar Untuk Optimalisasi Kapasitas Produksi. *Saintek Perikan. Indones. Journal. Fish. Sci. Technol.* 2012, 8 (1), 46–51.
- (3) Birolo, M.; Bordignon, F.; Trocino, A.; Fasolato, L.; Pascual, A.; Godoy, S.; Nicoletto, C.; Maucieri, C.; Xiccato, G. Effects Of Stocking Density On The Growth And Flesh Quality Of Rainbow Trout (*Oncorhynchus Mykiss*) Reared In A Low-Tech Aquaponic System. *Aquaculture* 2020, 529 (June), 735653.
- (4) Deswati; Suyani, H.; Muchtar, A. K.; Abe, E. F.; Yusuf, Y.; Pardi, H. Copper, Iron and Zinc contents In Water, Pakcoy (*Brassica Rapa L.*) And Tilapia (*Oreochromis Niloticus*) In The Presence Of Aquaponics. *Rasayan Journal. Chem.* 2019, 12 (1), 40–49.
- (5) Deswati, D.; Khairiyah, K.; Safni, S.; Yusuf, Y.; Refinel, R.; Pardi, H. Environmental Detoxification Of Heavy Metals In Flood & Drain Aquaponic System Based On Biofloc Technology. *Int. Journal. Environ. Anal. Chem.* 2020, 00 (00), 1–10.
- (6) Yang, T.; Kim, H. J. Comparisons Of Nitrogen And Phosphorus Mass Balance For Tomato-, Basil-, And Lettuce-Based Aquaponic And Hydroponic Systems. *Journal. Clean. Prod.* 2020.
- (7) Deswati; Febriani, N.; Pardi, H.; Yusuf, Y.; Suyani, H. Applications Of Aquaponics On Pakcoy (*Brassica Rapa L.*) And Nila Fish (*Oreochromis Niloticus*) To The Concentration Of Ammonia, Nitrite And Nitrate. *Orient. Journal. Chem.* 2018, 34 (5), 2447–2455.
- (8) Zidni, I.; Iskandar; Rizal, A.; Andriani, Y.; Ramadan, R. Efektivitas Sistem Akuaponik Dengan Jenis Tanaman Yang Berbeda Terhadap Kualitas Air Media Budidaya Ikan. *Jurnal. Perikan. Dan Kelaut.* 2019, 9 (1), 81–94.
- (9) Deswati; Sutopo, J.; Norita Tetra, O., Pardi, H. Kualitas Air Pada Sistem Akuaponik. *Perkumpulan Rumah Cemerlang Indonesia (PRCI). Tasikmalaya.* 2021
- (10) Wasonowati, C.; Suryawati, S.; Rahmawati, A. Respon Dua Varietas Tanaman Selada (*Lactuca Sativa L.*) Terhadap Macam Nutrisi Pada Sistem Hidroponik. *Journal. Agrivior* 2013, 6 (1), 50–56.
- (11) Anggraeni, D.; Nurbaity, A.; Sofyan, E. T. Respons Beberapa Tanaman Sayuran Bermikoriza Terhadap Dosis P Pada Sistem Hidroponik Model Ebb Flow. *Soilrens* 2020, 17 (2), 9–13.
- (12) Delya, B. Design Of Ebb And Flow Automatic Hydroponic System For Chilli Pepper Cultivation. *Jurnal. Tek. Pertan. Lampung (Journal Agric. Eng.* 2014, 3 (3), 205–212.
- (13) Oladimeji, A. S.; Olufeagba, S. O.; Ayuba, V. O.; Sololmon, S. G.; Okomoda, V. T. Effects Of Different Growth Media On Water Quality And Plant Yield In A Catfish-Pumpkin Aquaponics System. *Journal. King Saud Univ. - Sci.* 2020, 32 (1), 60–66.
- (14) Deswati; Suyani, H. Utilization Of Planting Media Of Charcoal Coconut Shell And Charcoal Rice Husk In Kale (*Ipomea Reptans Poir*) Cultivation To Reduce Ammonia, Sulfide, Copper And Zinc Content In Hydroponics System. 2017, 10 (4), 1645–1651.
- (15) Deswati; Zunnur, Y.; Suyani, H. Utilization Of Planting Media Of Coconut Fiber And Charcoal Rice Husk In Lettuce (*Lactuca Sativa L.*) To Reduce Ammonia, Sulfides, Phosphate, Zinc And Iron In Hydroponics Systems. 2018, 10 (3), 15–22.
- (16) Crab, R.; Defoirdt, T.; Bossier, P.; Verstraete, W. Biofloc Technology In Aquaculture: Beneficial Effects And Future Challenges. *Aquaculture* 2012, 356–357, 351–356.
- (17) Deswati, D.; Safni, S.; Khairiyah, K.; Yani, E.; Yusuf, Y.; Pardi, H. Biofloc Technology: Water Quality (Ph, Temperature, Do, Cod, Bod) In A Flood & Drain Aquaponic System. *Int. Journal. Environ. Anal. Chem.* 2020, 00 (00), 1–10.
- (18) Ombong, F.; Salindeho, I. R. . Aplikasi Teknologi Bioflok (Bft) Pada Kultur Ikan Nila,

- Oreochromis Niloticus). *Journal Budid. Perair.* 2016, 4 (2), 16–25.
- (19) Deswati, D.; Yani, E.; Safni, S.; Norita Tetra, O.; Pardi, H. Development Methods In Aquaponics Systems Using Biofloc To Improve Water Quality (Ammonia, Nitrite, Nitrate) And Growth Of Tilapia And Samhong Mustard. *Int. Journal. Environ. Anal. Chem.* 2020, 00 (00), 1–11.
- (20) Adharani, N.; Soewardi, K.; Dhamar Syakti, A.; Hariyadi, S. Water Quality Management Using Bioflocs Technology: Catfish Aquaculture (Clarias Sp.). *Jurnal. Ilmu Pertan. Indones.* 2016, 21 (1), 35–40.
- (21) Zhang, H.; Gao, Y.; Shi, H.; Lee, C. T.; Hashim, H.; Zhang, Z.; Wu, W. M.; Li, C. Recovery Of Nutrients From Fish Sludge In An Aquaponic System Using Biological Aerated Filters With Ceramsite Plus Lignocellulosic Material Media. *Journal. Clean. Prod.* 2020, 258, 120886.
- (22) Sallenave, R. Important Water Quality Parameters In Aquaponics Systems. *Nm State Univ.* 2016, 659–664.
- (23) Lee, S.; Lee, J. Beneficial Bacteria And Fungi In Hydroponic Systems: Types And Characteristics Of Hydroponic Food Production Methods. *Scientia Horticulturae.* 2015.
- (24) Faridah, F.; Diana, S.; Yuniati, Y. Budidaya Ikan Lele Dengan Metode Bioflok Pada Peternak Ikan Lele Konvensional. *Caradde Jurnal. Pengabd. Kpd. Masy.* 2019.
- (25) Suryaningrum, F. M. Aplikasi Teknologi Bioflok Pada Pemeliharaan Bedikan Nila (Oreochromis Niloticus). 2012. Skripsi.
- (26) Phatthongkleang, T.; Sangnoi, Y.; Thong, S. O.; Uppabullung, A.; Keawtawee, T. The Efficiency Of Bacillus Spp . To Remove Ammonia. *Wichcha Journal.* 2019, 38 (1), 1–15.
- (27) Baldan, Sani Kamil., Umiati, V. F. Pengembangan Desa Wisata Melalui Gerakan Vertical Garden Di Desa Pojok Sukoharjo. *Pros. Semin. Nas. Pengabd. Masy. Lppm Umj.* 24 Sept. 2019, 3–4.
- (28) Monalisa, S. S.; Minggawati, I. Kualitas Air Yang Mempengaruhi Pertumbuhan Ikan Nila (Oreochromis Sp.) Di Kolam Beton Dan Terpal. *Journal. Trop. Fish.* 2010, 5 (2), 526–530.
- (29) Domingues, D. S.; Takahashi, H. W.; Camara, C. A. P.; Nixdorf, S. L. Automated System Developed To Control Ph And Concentration Of Nutrient Solution Evaluated In Hydroponic Lettuce Production. *Comput. Electron. Agric.* 2012.
- (30) Damanik, D. T. Respon Pertumbuhan Dan Produksi Tanaman Selada (Lactuca Sativa L .) Pada Berbagai Kerapatan Populasi Vertikultur The Lettuce (Lactuca Sativa L .) Growth And Production Response At Various Population Densities And Watering Frequency On Vertikultur Plant, Universitas Sriwijaya, 2017.
- (31) Anjani, P. T.; Kusdarwati, R.; Sudarno, S. Pengaruh Teknologi Akuaponik Dengan Media Tanam Selada (Lactuca Sativa) Yang Berbeda Terhadap Pertumbuhan Belut (Monopterus Albus). *Journal. Aquac. Fish Heal.* 2019, 6 (2), 67.
- (32) Rosman, A. S.; Kendarto, D. R.; Dwiratna, S. Pengaruh Penambahan Berbagai Komposisi Bahan Organik Terhadap Karakteristik Hidroton Sebagai Media Tanam. *Jurnal Pertanian Tropik.* 2019, 6 (2), 180–189.
- (33) Dauhan, R. E. S.; Effendi, E.; Suparmono. Efektifitas Sistem Akuaponik Dalam Mereduksi Konsentrasi Amonia Pada Sistem Budidaya Ikan. *Jurnal Rekayasa dan Teknologi Budidaya Perairan.* Vol 3 (1) . 2014, (1), 2–5.
- (34) Carbajal-Hernández, J. J.; Sánchez-Fernández, L. P.; Villa-Vargas, L. A.; Carrasco-Ochoa, J. A.; Martínez-Trinidad, J. F. Water Quality Assessment In Shrimp Culture Using An Analytical Hierarchical Process. *Ecol. Indic.* 2013, 29, 148–158.
- (35) Connolly, K.; Trebic, T. Optimization Of A Backyard Aquaponic Food Production System. 2010, 5 (1), 470–485
- (36) Rahmatullah, H. D.; Prayogo; Rahardja, B. S. Different Addition Of Molasses On Feed Conversion Ratio And Water Quality In Catfish (Clarias Sp.) Rearing With Biofloc-Aquaponic System. *Iop Conf. Ser. Earth Environ. Sci.* 2020, 441 (1).
- (37) Firdaus, M. R.; Hasan, Z.; Gumilar, I.; Subhan, U. Efektivitas Berbagai Media Tanam Untuk Mengurangi Karbon Organik Total Pada Sistem Akuaponik Dengan Tanaman Selada.

- Jurnal. Perikan. Dan Kelaut. 2018, 1x (1), 35–48.
- (38) Alexander, N. Pemeriksaan Nitrit Pada Air Bersih Dengan Metode Diazotasi. 2019.
- (39) Mulya, B. N.; Rajasekhara Reddy, K. Experimental Investigation Of Plant Bio-Filter On Water Quality And Growth Of Iridescent Shark In A Pilot Scale Aquaponic System. *Int. Journal. Recent Technol. Eng.* 2019, 7 (6c2), 551–556.
- (40) Hendrawati, H.; Prihadi, T. H.; Rohmah, N. N. Analisis Kadar Fosfat Dan N-Nitrogen (Amonia, Nitrat, Nitrit) Pada Tambak Air Payau Akibat Rembesan Lumpur Lapindo Di Sidoarjo, Jawa Timur. *Jurnal. Kim. Val.* 2008, 1 (3).
- (41) Yulisa, T. Pengaruh Ekstrak Daun Honje (*Etingera Hemisphaerica*) Terhadap Morfologi Hati Dan Ginjal Mencit (*Mus Musculus*) Akibat Toksisitas Merkuri Klorida ($HgCl_2$) Serta Implementasinya Sebagai Media Pembelajaran Biologi Sma. Skripsi 2014.
- (42) Manan, H.; Moh, J. H. Z.; Kasan, N. A.; Suratman, S.; Ikhwanuddin, M. Identification Of Biofloc Microscopic Composition As The Natural Bioremediation In Zero Water Exchange Of Pacific White Shrimp, *Penaeus Vannamei*, Culture In Closed Hatchery System. *Appl. Water Sci.* 2017, 7 (5), 2437–2446.
- (43) Goddek, S.; Joyce, A.; Wuertz, S.; Körner, O.; Bläser, I.; Reuter, M.; Keesman, K. J. Decoupled Aquaponics Systems; 2019.
- (44) Indonesia, P. P. R. Peraturan Pemerintah Republik Indonesia Nomor 22 Tahun 2021 Tentang Penyelenggaraan Perlindungan Dan Pengelolaan Lingkungan Hidup. Lampiran VI 2021, No. 097089.
- (45) Ibrahim, Y.; Tanaiyo, R. Response Of Mustard Crop (*Brassicca Juncea L.*) On Liquid Organic Fertilizer From The Peel And Hump Of Banana. 2016, 5, 12–15.
- (46) Pratama, W. D.; . P.; Manan, A. Pengaruh Pemberian Probiotik Berbeda Dalam Sistem Akuaponik Terhadap Kualitas Air Pada Budidaya Ikan Lele (*Clarias Sp.*). *Journal. Aquac. Sci.* 2017, 1 (1), 27–35.
- (47) Djokosetiyanto, D.; Sunarma, A.; Widanarni. Perubahan Ammonia (NH_3-N), Nitrit (NO_2-N) Dan Nitrat (NO_3-N) Pada Media Pemeliharaan Ikan Nila Merah (*Oreochromis Sp.*) Di Dalam Sistem Resirkulasi. *Jurnal. Akuakultur Indones.* 2008, 7 (1), 19–24.
- (48) Azhari, D.; Tomaso, A. M. Kajian Kualitas Air Dan Pertumbuhan Ikan Nila (*Oreochromis Niloticus*) Yang Dibudidayakan Dengan Sistem Akuaponik. *Akuatika Indones.* 2018, 3 (2), 84.
- (49) Deswati; Deviona, A.; Intan Sari, E.; Yusuf, Y.; Pardi, H. The Effectiveness Of Aquaponic Compared To Modified Conventional Aquaculture For Improved Of Ammonia, Nitrite, And Nitrate. *Rasayan Journal. Chem.* 2020, 13 (1), 1–10.
- (50) Arumsari, C. Pengaruh Penambahan Kapur Dolomit ($CaMg (Co 3) 2$) Dalam Pakan Terhadap Intensitas Moulting , Pertumbuhan Dan Kelulushidupan Udang *Vannamei* (*Litopenaus Vannamei*). 2019.
- (51) Zalukhu, J.; Fitriani, M.; Sasanti, A. D. Pemeliharaan Ikan Nila Dengan Padat Tebar Berbeda Pada Budidaya Sistem Akuaponik. *Jurnal. Akuakultur Rawa Indones.* 2018, 4 (1), 80–90.
- (52) Yang, T.; Kim, H. J. Nutrient Management Regime Affects Water Quality, Crop Growth, And Nitrogen Use Efficiency Of Aquaponic Systems. *Sci. Hortic. (Amsterdam).* 2019, 256 (March), 108619.