

## DAFTAR PUSTAKA

- Abdi, R., Setyowati, D. N., & Mukhlis, A. (2022). PENGARUH PENAMBAHAN EKSTRAK DAUN JERUJU (*Acanthus ilicifolius*) DENGAN DOSIS BERBEDA PADA PAKAN TERHADAP KELANGSUNGAN HIDUP UDANG VANAME (*Litopenaeus vannamei*) YANG DIINFEKSI *Vibrio parahaemolyticus*. *Jurnal Perikanan Unram*, 12(1), 33–44. <https://doi.org/10.29303/jp.v12i1.271>
- Agustama, Y., Lestari, T. A., Verdian, A. H., Witoko, P., Studi, P., Pembenhian, T., Peternakan, J., Lampung, P. N., Raya, R., Bandar, K., Studi, P., Perikanan, B., Peternakan, J., Lampung, P. N., Raya, R., & Bandar, K. (2021). Penambahan Probiotik Em4 dan *Bacillus* sp Pada Pakan Buatan Terhadap Pertumbuhan dan Kelangsungan Hidup Post Larva Udang Vaname Maintenance of *Litopenaeus Vannamei* Post Larva Stadia with Additional Probiotic EM4 And *Bacillus* Sp in Artificial Feed on The Gr. *Jurnal Perikanan Terapan (PERANAN)*, 2(1), 39–44. <https://jurnal.polinela.ac.id/index.php/PERANAN>
- Anisa, A., Marzuki, M., Setyono, B. D. H., & Scabra, A. R. (2021). SURVIVAL RATE OF POST -LARVAL VANAME SHRIMP (*Litopenaeus vannamei*) MAINTAINED AT LOW SALINITY USING THE METHOD TIERED ACCLIMATIZATION. *Jurnal Perikanan Unram*, 11(1), 129–140. <https://doi.org/10.29303/jp.v11i1.242>
- Anwar, A., Zainuddin, Djawad, M. I., Aslamyah, S., Saade, E., Karim, M. Y., Trijuno, D. D., Murni, Syafiuddin, Mohammed, A. A., & Taukhid, I. (2024). Effect of Soybean Meal Substitution Using Raintree (*Samanea saman*) Seed Meal on the Physical Quality of Feed and Growth Performance of the Juvenile White Shrimp, *Litopenaeus vannamei*. *Egyptian Journal of Aquatic Biology and Fisheries*, 28(4), 2249–2274. <https://doi.org/10.21608/fejafb.2024.376333>
- Apresia, F., Uwaz, C. R., & Azzura, K. F. (2024). The Effect of Water Quality on the Performance Growth of Vannamei Shrimp (*Litopenaeus vannamei*) at the Center for Brackish Aquaculture Fisheries. *Journal of Marine Biotechnology and Immunology*, 2(3), 27–35. <https://doi.org/10.61741/b61qm672>
- Astuti, W., Susanti, D., & Tutik, T. (2024). UJI ANTIBAKTERI EKSTRAK ETANOL DAUN BELIMBING WULUH (*Averrhoa bilimbi* L.) TERHADAP BAKTERI *Staphylococcus aureus* DAN *Escherichia coli* MENGGUNAKAN METODE DILUSI. *Jurnal Ilmu Kedokteran Dan Kesehatan*, 11(5), 1038–1049. <https://doi.org/10.33024/jikk.v11i5.13821>
- Azwanida. (2015). A Review on the Extraction Methods Use in Medicinal Plants, Principle, Strength and Limitation. *Medicinal & Aromatic*

- Plants*, 04(03), 3–8. <https://doi.org/10.4172/2167-0412.1000196>
- D, K., P, T., K, J., N, S., & Kumar, A. (2015). Procedure for Maturation and Spawning of Imported shrimp *Litopenaeus vannamei* in Commercial Hatchery, South East Coast of India. *Fisheries and Aquaculture Journal*, 06(04).  
<https://doi.org/10.4172/21503508.1000146>
- FAO. (2020). The State Of World Fisheries And Aquaculture Sustainability in action. In *Inform* (Vol. 32, Issue 6). FAO.  
<https://doi.org/10.4060/ca9229en>
- Fikriyah, A., Febrianti, D., Undu, M. C., Nurliani, Y., & Khumaidi, A. (2023). PERKEMBANGAN DAN PERTUMBUHAN LARVA UDANG VANAME (*Litopenaeus vannamei*) DI DUA PANTI PEMBENIHAN UDANG DI SITUBONDO: STUDI KASUS. *Jurnal Perikanan Unram*, 13(1), 123–135. <https://doi.org/10.29303/jp.v13i1.446>
- Handayani, S. (2019). PEMANFAATAN SARI BELIMBING WULUH (*Averrhoa bilimbi* L.) PADA PEMELIHARAAN UDANG VANAME (*Litopenaeus vannamei*) UNTUK MENEKAN POPULASI BAKTERI. *Skripsi*.
- Handayani, S., Dwinanti, S. H., & Hadi, P. (2020). Pemanfaatan Sari Belimbing Wuluh (*Averrhoa bilimbi* L.) pada Pemeliharaan Udang Vaname (*Litopenaeus vannamei*) untuk Menekan Populasi Bakteri *Vibrio* sp. Koloni Hijau. *Jurnal Sains Teknologi Akuakultur*, 3(1), 33–41.
- Hasim, H., Arifin, Y. Y., Andrianto, D., & Faridah, D. N. (2019). Ekstrak Etanol Daun Belimbing Wuluh (*Averrhoa bilimbi*) sebagai Antioksidan dan Antiinflamasi. *Jurnal Aplikasi Teknologi Pangan*, 8(3), 86. <https://doi.org/10.17728/jatp.4201>
- Hery, M., Alauddin, R., & Putra, A. (2023). Kajian Daya Dukung Lingkungan Dalam Budidaya Udang Vaname Environmental Carrying Capacity Study in Vaname Shrimp Farming. *Urnal Kelautan Dan Perikanan Terapan*, 103–109.
- Hitijahubessy, H., Dumatubun, A. R., Hanoatubun, M. I. H., Sianturi, A., & Tumiwa, B. B. (2024). ANALISIS KEMAMPUAN ANTIBAKTERI DARI ESKTRAK DAUN BELIMBING WULUH (*Averrhoa bilimbi* L.) TERHADAP *Vibrio* sp. *Biofaal Journal*, 5(1), 053–064.  
<https://doi.org/10.30598/biofaal.v5i1pp053-064>
- Jelinda, P. E., Jasmanidar, Y., & Tjendanawangi, A. (2024). Pengaruh pH Berbeda Terhadap Pertumbuhan dan Kelangsungan Hidup Udang Vanname (*Litopenaeus vannamei*). *Jurnal Vokasi Ilmu-Ilmu Perikanan (Jvip)*, 4(2), 209. <https://doi.org/10.35726/jvip.v4i2.7222>
- Khairiman, Mulyani, S., & Budi, S. (2022). *Potensi & Tantangan Budidaya Bandeng*.
- Kusuma, W. A., Prayitno, S. B., & Ariyanti, R. W. (2017). Kajian Kesesuaian Lahan Tambak Udang Vaname (*Litopenaeus*

- vannamei) di Kecamatan Cijulang dan Parigi, Pangandaran, Jawa Barat dengan Penerapan Aplikasi Sistem Informasi Geografis. *Journal of Aquaculture Management and Technology*, 6(4), 255–263.
- Latifah, A. L., Revaldi, M., & Destianty, M. N. (2025). Peran udang vaname dalam meningkatkan daya saing ekspor perikanan indonesia di pasar global. *Jurnal Ilmiah Ekonomi Dan Manajemen*, 3(2), 319–325.
- Linayati, L., Nailal Khoiri, M., Yusufi Mardiana, T., & Zulkham Yahya, M. (2023). Effect of Indian Pluchea Leaf (*Pluchea indica*) addition on feed-on growth performance and survival rate of *Litopenaeus vannamei*. *IOP Conference Series: Earth and Environmental Science*, 1224(1). <https://doi.org/10.1088/1755-1315/1224/1/012002>
- Linayati, L., Rattanavichai, W., Mardiana, T. Y., Nugroho, L. B., & Yahya, M. Z. (2024). Effect of Giving Api-Api (*Avicennia marina*) Mangrove Leaf Solution In Artificial Feed On The Immunity Response and Growth of Vannamei Shrimp (*Litopenaeus vannamei*). *Journal of Aquaculture and Fish Health*, 13(2), 198–207. <https://doi.org/10.20473/jafh.v13i2.55839>
- Ma, Q., Zhao, G., Liu, J., Chen, I. T., Wei, Y., Liang, M., Dai, P., NuezOrtin, W. G., & Xu, H. (2024). Effects of a phytobiotic-based additive on the growth, hepatopancreas health, intestinal microbiota, and *Vibrio parahaemolyticus* resistance of Pacific white shrimp, *Litopenaeus vannamei*. *Frontiers in Immunology*, 15(August), 1–13. <https://doi.org/10.3389/fimmu.2024.1368444>
- Mahulaw, F. R., Lamadi, A., & Mulis, M. (2022). Patogenesis Bakteri *Vibrio* sp. pada Udang Vannamei di Kabupaten Pohuwato. *Jurnal Ilmiah Perikanan Dan Kelautan*, 10(1), 31–40.
- Mariani, M., Rosyidah, K., & Mustikasari, K. (2021). Uji Sitotoksik Ekstrak Alkaloid Daun Belimbing Wuluh (*Averrhoa bilimbi* L.) terhadap Larva Udang (*Artemia salina*). *Jurnal Natural Scientiae*, 1(1), 7–13. <https://doi.org/10.20527/jns.v1i1.4421>
- Martínez Soler, M., Courtois De Vicose, G., Roo Filgueira, J., Zambrano Sánchez, J., Yugcha Oñate, E., Montachana Chimborazo, M., Intriago Díaz, W., Reyes Abad, E., & Afonso López, J. M. (2023). Effect of HUFA in Enriched *Artemia* on Growth Performance, Biochemical and Fatty Acid Content, and Hepatopancreatic Features of *Penaeus vannamei* Postlarvae from a Commercial Shrimp Hatchery in Santa Elena, Ecuador. *Aquaculture Nutrition*, 2023. <https://doi.org/10.1155/2023/7343070>
- Maulianawati, D., Khasanah, C. N., Lestari, M., Tahcfulloh, S., Syahril, & Amien, M. (2025). Antimicrobial Activity of *Averrhoa bilimbi* (Lin) Against *Vibrio parahaemolyticus* in the Culture of *Penaeus*

- monodon Post Larvae: An In Vitro and In Vivo Study. *Egyptian Journal of Aquatic Biology and Fisheries*, 29(5), 71–91. <https://doi.org/10.21608/ejabf.2025.451192>
- Mine', I. (2020). Respon Fisiologi Larva Udang Vanamei (*Litopenaeus vannamei*) yang diberi Probiotik *Bacillus sp* terhadap Patogen *Vibrio harveyi*. 2, 1–9.
- Munir, J., Ernita, M., Fridarti, F., & Yevendri, Y. (2022). Pemanfaatan Limbah Pertanian Untuk Meningkatkan Ekonomi Masyarakat. *Abdimas Galuh*, 4(2), 795. <https://doi.org/10.25157/ag.v4i2.7645>
- Ngginak, J., Semangun, H., Mangimbulude, J. C., & Rondonuwu, F. S. (2013). Komponen Senyawa Aktif pada Udang Serta Aplikasinya dalam Pangan. *Sains Medika : Jurnal Kedokteran Dan Kesehatan*, 5(2), 128. <https://doi.org/10.30659/sainsmed.v5i2.354>
- Nisa, A. C., Jatayu, D., & Abadi, R. F. (2023). Kinerja Produksi Budidaya Udang Vaname (*Litopenaeus vannamei*) Sistem Intensif di PT . Pendawa Senajaya Kabupaten Situbondo Performance of Vaname Shrimp (*Litopenaeus vannamei*) Intensive Cultivation in PT . Pendawa Senajaya Situbondo Regency penyakit ,. *Buletin Jalanidhitah Sarva Jivitam*, 5(2), 139–147. <http://ejournalbalitbang.kkp.go.id/index.php/JSJ/index>
- Nurhasanah, N., Junaidi, M., & Azhar, F. (2021). SURVIVAL RATE AND GROWTH OF SHIRMP VANAME (*Litopenaeus vannamei*) AT SALINITY 0 PPT WITH MULTILEVEL ACCLIMATIZATION METHOD USING CALSIUM CaCo3. *Jurnal Perikanan Unram*, 11(2), 166–177. <https://doi.org/10.29303/jp.v11i2.241>
- Nurhijrah, S. (2019). Kinerja Pertumbuhan Udang Vaname (*Litopenaeus vannamei*) yang diberi Pakan dengan penambahan Mannan oligosakarida (MOS). *Skripsi*, 8(5), 55.
- Permana, R., Andhikawati, A., Akbarsyah, N., & Putra, Pringgo Kusuma D. N. . (2020). Identifikasi Senyawa Bioaktif Dan Potensi Aktivasi Antioksidan Lamun Enhalus *Acoroides* (Linn. F). *Akuatek*, 1(1), 66–72.
- Pratiwi, N., Lumbessy, S. Y., & Azhar, F. (2021). Pengaruh Pemberian Ekstrak Daun Petai Cina (*Leucaena leucocephala*) terhadap Performa Udang Vaname (*Litopenaeus vannamei*). *JSIPi (Jurnal Sains Dan Inovasi Perikanan) (Journal of Fishery Science and Innovation)*, 5(2), 72. <https://doi.org/10.33772/jsipi.v5i2.17506>
- Rahimah, S., Maryam, F. B. A., & Limbong, B. A. (2019). The Toxicity Test of Ethanol Extract of Leaves *Averrhoa bilimbi* L. Using Brine Shrimp Lethality Test (BSLT). *Journal of Pharmaceutical and Medicinal Sciences*, 4(1), 10–14.
- Rahmanto, M. I. (2011). Identifikasi Potensi Dan Pemanfaatan Limbah Pertanian Di Kabupaten Bekasi. *Cefars : Jurnal Agribisnis Dan Pengembangan Wilayah*, 2(2), 36–50.

- <https://jurnal.unismabekasi.ac.id/index.php/cefars/article/view/76>
- Rahmawati, E. D. (2019). PENGARUH PEMBERIAN EKSTRAK KASAR DAUN BELIMBING WULUH (*Averrhoa bilimbi* L.) TERHADAP DAYA HAMBAT BAKTERI *Pseudomonas fluorescens* SECARA IN VITRO. *JFMR-Journal of Fisheries and Marine Research*, 3(3), 301–307. <https://doi.org/10.21776/ub.jfmr.2019.003.03.3>
- Rasuliyanasari, M., & Diniariwisani, D. (2024). Pembenuhan Larva Udang Vaname (*Litopenaeus vannamei*) Di Balai Produksi Induk Udang Unggul Dan Keckerangan Karangasem, Bali. *Jurnal Vokasi Ilmu-Ilmu Perikanan (Jvip)*, 4(2), 168. <https://doi.org/10.35726/jvip.v4i2.7153>
- Rifai, M., Arifin, B., & Endaryanto, T. (2023). KEBERLANJUTAN USAHA BUDIDAYA UDANG VANAME DI KAWASAN KONSERVASI MANGROVE LAMPUNG MANGROVE CENTER (LMC) KECAMATAN LABUHAN MARINGGAI LAMPUNG TIMUR (Sustainability of Vaname Shrimp Cultivation in The Conservation Area of Mangrove Center Lampung, Labuhan Mari. *Indonesian Journal of Socio Economics*, 2(1), 14–20.
- Ringan, M., Singkong, K., & Kabupaten, D. I. (2015). *View metadata, citation and similar papers at core.ac.uk*.
- Romadhoni, A., Subekti, S., & Kismiyati. (2020). The effect of cosmos caudatus extract on the survival rate of litopenaeus vannamei post larvae against salinity. *AAFL Bioflux*, 13(4), 1820–1826.
- Rosmaidar, Rastina, Nurliana, Hennivanda, Azhari, & Yolanda, P. D. (2021). The Effect of Addition Star Fruit Juice (*Averrhoa Bilimbi* L.) with Different Concentrations and Lengths of Soaking Time Against Decay of Vaname Shrimp (*Litopenaeus Vannamei*). *Journal of Multidiciplinary Applied Natural Science*, 1(1), 1–12.
- Sa'adah, W., & Fathur Roziqin, A. (2018). UPAYA PENINGKATAN PEMASARAN BENUR UDANG VANNAMEI (*Litopenaeus Vannamei*) DI PT. ARTHA MAULANA AGUNG (AMA) DESA PECARON, KECAMATAN BUNGATAN, KABUPATEN SITUBONDO. *MIMBAR AGRIBISNIS: Jurnal Pemikiran Masyarakat Ilmiah Berwawasan Agribisnis*, 4(1), 84–97.
- Sandrayani, Lumbessy, S. Y., & Damayanti, A. A. (2013). Pengaruh Media Pengisi terhadap Kelangsungan Hidup Udang Vaname (*Litopenaeus vannamei*) pada Transportasi Sistem Kering. *Jurnal Perikanan Unram*, 1(2), 20–27.
- Santika, E., Marlian, N., Lubis, F., Zurba, N., Isbah, F., Studi Sumber Daya Akuatik, P., & Perikanan dan Ilmu Kelautan, F. (2024). Laju Pertumbuhan Udang Vanamei (*Litopenaeus vannamei*) di Balai Perikanan Budidaya Air Payau (BPBAP) Ujung Batee Growth Rate of Vannamei Shrimp (*Litopenaeus vannamei*) at the Ujung Batee

- Brackish Water Aquaculture Fisheries Center (BPBAP). *Journal of Aceh Aquatic Science E*, 8(1), 2024.
- Sarjito. (1994). Journal of Aquaculture Management and Technology Online di : <http://ejournal-s1.undip.ac.id/index.php/jamt> Journal of Aquaculture Management and Technology Online di : <http://ejournal-s1.undip.ac.id/index.php/jamt>. *Journal of Aquaculture Management and Technology*, 7(1), 128–129 dan 133.
- Se, A. N., Santoso, P., & Liufeto, F. C. (2023). Hal tersebut sejalan dengan pendapat Rahma et.al., (2014) bahwa kematian udang pada masa pemeliharaan diakibatkan oleh daya tahan tubuh semakin menurun pada salinitas yang semakin rendah hingga menyebabkan udang stress dan mudah terinfeksi penyakit. *Jurnal Vokasi Ilmu-Ilmu Perikanan (Jvip)*, 3(2), 84.
- Siregar, Y., Montesqrit, & Harnentis. (2023). Potensi fitokimia daun belimbing wuluh (*Averrhoa Bilimbi L.*) dengan pengeringan berbeda sebagai kandidat antibiotik alami broiler. *Agrivet : Jurnal Ilmu-Ilmu Pertanian Dan Peternakan (Journal of Agricultural Sciences and Veteriner)*, 11(1), 37–44. <https://doi.org/10.31949/agrivet.v11i1.5746>
- SNI 7311-2009. (2009). Produksi Benih Udang Vaname Kelas Benih Sebar. *Badan Standardisasi Nasional*. [https://www.academia.edu/38737580/SNI\\_7311\\_2009\\_Standar\\_Nasional\\_Indonesia\\_Produksi\\_benih\\_udang\\_vaname\\_Litopenaeus\\_vannamei\\_kelas\\_benih\\_sebar](https://www.academia.edu/38737580/SNI_7311_2009_Standar_Nasional_Indonesia_Produksi_benih_udang_vaname_Litopenaeus_vannamei_kelas_benih_sebar)
- Sonneratia, M. A., & Terhadap, I. (2020). I AKTIVITAS ANTIBAKTERIA EKSTRAK DAUN. 15(4), 253–259.
- Sunaryo, S., Widiassa, I. N., Djunaedi, A., & Sasmoko, P. (2018). Mortalitas Larva *Litopenaeus vannamei* Pada Penerapan Perbedaan Sistem Filtrasi Air Media Pemeliharaan. *Jurnal Kelautan Tropis*, 21(2), 103. <https://doi.org/10.14710/jkt.v21i2.3089>
- Syah, B. W., & Purwani, kristanti I. (2016). Pengaruh ekstrak daun belimbing wuluh (*Averrhoa bilimbi*) terhadap mortalitas dan perkembangan larva *Spodoptera litura*. *Jurnal Sains Dan Seni ITS*, 5(2), 23–28.
- Utami, S. C. M., Anantanyu, S., & Suminah, S. (2023). Pengetahuan Lokal Petani dalam Budidaya Tanaman Sayur di Desa Beruk, Kecamatan Jatiyoso, Kabupaten Karanganyar. *AGRITEXTS: Journal of Agricultural Extension*, 46(2), 97. <https://doi.org/10.20961/agritexts.v46i2.65086>
- Utomo, S. R., Rantung, S. V., Sondakh, S. J., Andaki, J. A., & Rarung, L. K. (2022). Analisis Kelayakan Usaha Budidaya Udang Vannamei (*Litopenaeus Vannamei*) (Studi Kasus di Balai Pelatihan dan Penyuluhan Perikanan Bitung). *AKULTURASI: Jurnal Ilmiah Agrobisnis Perikanan*, 10(1), 62–73.

<https://ejournal.unsrat.ac.id/v3/index.php/akulturasi/article/view/39938>

- Wahyudi, D., Prihutomo, A., Mukhlis, A., Barat, K., Karawang, K., & Barat, J. (2022). *PRODUKTIVITAS BUDIDAYA UDANG VANAME ( Litopenaeus vannamei ) SUPER INTENSIF DI BAK TERPAL BUNDAR DENGAN PADAT TEBAR BERBEDA* *Productivity of Super Intensive Vaname Shrimp ( Litopenaeus vannamei ) Cultivation in Round Tarpacal Bats with Different Stocking D.* 12(4), 781–793.
- Wijiniandiah, A., Chotimah, H., Selvia, J., Arfiyanti, Z., & Larantuka, N. (2025). *Karakteristik Fisikokimia Pengeringan Kalakai ( Stenochlaena palustris ) Sebagai Pangan Lokal Khas Kalimantan dengan Pretreatment Asam Alami.* 9(1), 366–380.
- Zainuddin, Fujaya, Y., Djawad, M. I., Aslamyiah, S., Nur, K., & . H. (2020). Effect of Vitomolt supplements in feed on growth and survival rate of white shrimp (*Litopenaeus vannamei*) seeds. *International Journal of Scientific and Research Publications (IJSRP)*, 10(11), 795–798. <https://doi.org/10.29322/ijsrp.10.11.2020.p10778>
- Zainuddin, Haryati, & Aslamyiah, Siti, S. (2014). The influence of carbohydrate level and feeding frequency on feed conversion ratio and survival rate of *litopenaeus vannamei* juvenile. *Jurnal Perikanan Universitas Gadjah Mada*, 16(1), 29–34.
- Zainuddin, Z., Aslamyiah, S., Nur, K., & Hadijah. (2019). The Effect of Dosage Combination and Feeding Frequency on Growth and Survival Rate of Vannamei Shrimp Juveniles in Ponds. *IOP Conference Series: Earth and Environmental Science*, 370(1), 0–7. <https://doi.org/10.1088/1755-1315/370/1/012033>