

DAFTAR PUSTAKA

- Ahn, S., Hassaballah, A., & Steets, B. (2014). Data management and log-transformation in water quality monitoring of microbial indicators. *Water Research*, 58, 201–210
- Aini, M., & Parmi, H. J. (2022). Analisis Tingkat Pencemaran Tambak Udang di Sekitar Perairan Laut Desa Padak Guar Kecamatan Sambelia Kabupaten Lombok Timur. *AQUACOASTMARINE: Journal of Aquatic and Fisheries Sciences*, 1(2), 67–75. <https://doi.org/10.32734/jafs.v1i2.9025>
- Alvanou, M. V., Feidantsis, K., Staikou, A., Apostolidis, A. P., Michaelidis, B., & Giantsis, I. A. (2023). Probiotics, Prebiotics, and Synbiotics Utilization in Crayfish Aquaculture and Factors Affecting Gut Microbiota. In *Microorganisms* (Vol. 11, Issue 5). MDPI. <https://doi.org/10.3390/microorganisms11051232>
- Ambat, K. N., Abida, I. W., & Maherlina, R. (2022). Kelimpahan Bakteri *Vibrio* sp. Pada Sampel Air Tambak di UPT Laboratorium Kesehatan Ikan dan Lingkungan Pasuruan Jawa Timur. *Juvenil: Jurnal Ilmiah Kelautan Dan Perikanan*, 3(3), 66–72. <https://doi.org/10.21107/juvenil.v3i3.16461>
- Anas, P., Sudinno, D., & Jubaedah, I. (2015). Daya Dukung Perairan Untuk Budidaya Udang Vannamei Sistem Semi Intensif Dalam Pemanfaatan Wilayah Pesisir Kabupaten Pematang. *Jurnal Penyuluhan Perikanan Dan Kelautan*, 9(2), 29–46. <https://doi.org/10.33378/jppik.v9i2.61>
- Anissa, R. K., Lisdiana, L., & Widyayanti, A. T. (2023). Optimasi Metode Nested PCR untuk Deteksi *Vibrio parahaemolyticus* AHPND pada Udang Vaname (*Litopenaeus vannamei*). *Lentera Bio: Berkala Ilmiah Biologi*, 13(1), 1–13. <https://doi.org/10.26740/lenterabio.v13n1.p1-13>
- Anjasmara, B., Gde, P., Julyantoro, S., & Wulandari, E. (2018). Total Bakteri dan Kelimpahan *Vibrio* pada Budidaya Udang Vannamei (*Litopenaeus vannamei*) Sistem Resirkulasi Tertutup dengan Padat Tebar Berbeda. 7, 1–7.
- Asif, A., Chen, J.-S., Hussain, B., Hsu, G.-J., Rathod, J., Huang, S.-W., Wu, C.-C.,

- & Hsu, B.-M. (2024). The escalating threat of human-associated infectious bacteria in surface aquatic resources: Insights into prevalence, antibiotic resistance, survival mechanisms, detection, and prevention strategies. *Journal of Contaminant Hydrology*, 265, 104371. <https://doi.org/10.1016/j.jconhyd.2024.104371>
- Bourlat, S. J., Borja, A., Gilbert, J., Taylor, M. I., Davies, N., Weisberg, S. B., Griffith, J. F., Lettieri, T., Field, D., Benzie, J., Glöckner, F. O., Rodríguez-Ezpeleta, N., Faith, D. P., Bean, T. P., & Obst, M. (2013). Genomics in marine monitoring: New opportunities for assessing marine health status. *Marine Pollution Bulletin*, 74(1), 19–31. <https://doi.org/10.1016/j.marpolbul.2013.05.042>
- Bucklin, A., Lindeque, P. K., Rodríguez-Ezpeleta, N., Albaina, A., & Lehtiniemi, M. (2016). Metabarcoding of marine zooplankton: Prospects, progress and pitfalls. *Journal of Plankton Research*, 38(3), 393–400. <https://doi.org/10.1093/plankt/fbw023>
- Boyd, C. E., D'Abramo, L. R., Glencross, B. D., Huyben, D. C., Juarez, L. M., Lockwood, G. S., McNevin, A. A., Tacon, A. G. J., Teletchea, F., Tomasso, J. R., Tucker, C. S., & Valenti, W. C. (2020). Achieving sustainable aquaculture: Historical and current perspectives and future needs and challenges. *Journal of the World Aquaculture Society*, 51(3), 578–633. <https://doi.org/10.1111/jwas.12714>
- Cerro-Gálvez, E., Dachs, J., Lundin, D., Fernández-Pinos, M. C., Sebastián, M., & Vila-Costa, M. (2021). Responses of Coastal Marine Microbiomes Exposed to Anthropogenic Dissolved Organic Carbon. *Environmental Science and Technology*, 55(14), 9609–9621. <https://doi.org/10.1021/acs.est.0c07262>
- Chithira, M. S., Aishwarya, P. V., Mohan, A. S., & Antony, S. P. (2021). Metagenomic analysis of microbial communities in the sediments of a semi-intensive penaeid shrimp culture system. *Journal of Genetic Engineering and Biotechnology*, 19(1). <https://doi.org/10.1186/s43141-021-00237-9>
- Choeronawati, A. I., Prayitno, S. B., & Haeruddin, . (2019). Studi Kelayakan Budidaya Tambak Di Lahan Pesisir Kabupaten Purworejo. *Jurnal Ilmu Dan Teknologi Kelautan Tropis*, 11(1), 191–204.

<https://doi.org/10.29244/jitkt.v11i1.22522>.

- Corinaldesi, C., Bianchelli, S., Candela, M., Dell'Anno, A., Gambi, C., Rastelli, E., Varrella, S., & Danovaro, R. (2023). Microbiome-assisted restoration of degraded marine habitats: a new nature-based solution? In *Frontiers in Marine Science* (Vol. 10). Frontiers Media SA. <https://doi.org/10.3389/fmars.2023.1227560>
- Dash, P., Tandel, R. S., & Bhat, R. A. H. (2024). Microbiomes of the Aquatic Environment. In *Handbook of Aquatic Microbiology* (pp. 1–11). CRC Press. <https://doi.org/10.1201/9781003408543-1>
- Dini Chandran C. S., & Sivadasan, R. (2023). The Metagenomic Characterization of Bacterial Community in Aquacultured Shrimp *Penaeus monodon*. *Biotechnology Journal International*, 27(5), 71–81. <https://doi.org/10.9734/bji/2023/v27i5698>
- Fahrudin, M., & Ilyas, A. P. (2024). Kualitas Perairan Pesisir Pantai Ketapang, Lombok Barat. *Jurnal Perikanan Terapan*, 1(1), 1–5.
- Farida, C. W. A., & Nabila. (2024). Kerusakan Lingkungan Akibat Aktivitas Manusia Pada Ekosistem Terumbu Karang. *Jurnal Pendidikan dan Ilmu Sosial* 2(2), 2024. <https://ejournal.edutechjaya.com/index.php/>.
- Fitriana, R. (2014). Monitoring Kualitas Air Pada Tambak Pembesaran Udang Vannamei (*Litopenaeus Vannamei*) Di Situbondo, Jawa Timur. *Procedia Manufacturing*, 1(22 Jan), 1–17.
- Gin, K. Y.-H., Ng, C., Li, W., Goh, S. G., Tong, X., & Jong, M. C. (2023). Emerging microbial contaminants in the ocean. In *Oceans and Human Health* (pp. 315–350). Elsevier. <https://doi.org/10.1016/B978-0-323-95227-9.00018-X>
- Haliman, R. W., Poncolaksito, E., Sujarwo, S., Ismawi, I., Kunadi, A., Berutu, N. W., Untari, D. R., Srisombat, S., Halalludin, B., Rizkiantino, R., & Laiman, H. (2024). Dinamika Bakteri *Vibrio* spp. pada Air Laut di Seputar Sentra Pembenihan Udang Vannamei (*Litopenaeus vannamei*) di Indonesia. 12(2), 112–118.
- Hamuna, B., Tanjung, R. H. R., Suwito, S., Maury, H. K., & Alianto, A. (2018). Study of Seawater Quality and Pollution Index Based on Physical-Chemical

- Parameters in the Waters of the Depapre District, Jayapura. *Jurnal Ilmu Lingkungan*, 16(1), 35–43. <https://doi.org/10.14710/jil.16.135-43>
- Haryanto, S., & Ansari, M. (2020). Pemantauan Kepadatan Bakteri Pada Perairan Sekitar Lokasi Pembenihan Di Kecamatan Gerokgak, Bali. *Buletin Teknik Litkayasa Akuakultur*, 18(2), 153. <https://doi.org/10.15578/blta.18.2.2020.153-156>
- Hikmawati, F., Susilowati, A., & Ratna, S. (2019). Deteksi Jumlah dan Uji Patogenitas *Vibrio* spp. pada Kerang Hijau (*Perna Viridis*) dikawasan Wisata Pantai Yogyakarta. *Jurnal Biodiv Indonesia*, 5(2), 334–339. <https://doi.org/10.13057/psnmbi/m050234>
- Holt, J. G., Krieg, N. R., Sneath, P. H. A., Staley, J. T., & Williams, S. T. (Eds.). (1994). *Bergey's manual of determinative bacteriology* (ed. ke-9). Lippincott Williams & Wilkins.
- Isman, H., Rupiwardani, I., & Sari, D. (2022). Gambaran Pencemaran Limbah Cair Industri Tambak Udang Kualitas Air Laut di Pesisir Pantai Lombeng. *Jurnal Pendidikan Dan Konseling*, 4(3), 1349–1358.
- Kadim, M. K., Pasingi, N., & Paramata, A. R. (2017). Kajian kualitas perairan Teluk Gorontalo dengan menggunakan metode STORET. *Depik*, 6(3), 235–241. <https://doi.org/10.13170/depik.6.3.8442>
- Lestari, I. (2021). Dampak Limbah Organik Tambak Udang Vaname Super Intensif Terhadap Tingkat Eutrofikasi Perairan Pantai Desa Palajau Kecamatan Arungkeke Kabupaten Jenepono. *Angewandte Chemie International Edition*, 6(11), 951–952., 1–27.
- Lindeque, P. K., Parry, H. E., Harmer, R. A., Somerfield, P. J., & Atkinson, A. (2013). Next generation sequencing reveals the hidden diversity of zooplankton assemblages. *PLoS ONE*, 8(11), 1–14. <https://doi.org/10.1371/journal.pone.0081327>
- Lopes, R. B., Ribeiro, J. S., Neves, S. C. B., Lameira, L. F., Moura, L. S. de, Santana, M. B. de, & Taube, P. S. (2022). Dissolved oxygen, organik matter and nutrients in fish systems combined with bio-addition of friendly microorganisms. *Research, Society and Development*, 11(4), e26111427382. <https://doi.org/10.33448/rsd-v11i4.27382>

- Lorgen-Ritchie, M., Uren Webster, T., McMurtrie, J., Bass, D., Tyler, C. R., Rowley, A., & Martin, S. A. M. (2023). Microbiomes in the context of developing sustainable intensified aquaculture. In *Frontiers in Microbiology* (Vol. 14). Frontiers Media SA.
- Maharani, M. D. K., Prasetya, I. N. D., Wulandari, D., Amelia, J. M., & Sitepu, G. S. B. (2024). Pemantauan Kualitas Air: Analisis Logam Berat Timbal (Pb) dan Kadmiun (Cd) Guna Mendukung Kegiatan Perikanan Berkelanjutan di Perairan Jembrana, Bali. *Samakia : Jurnal Ilmu Perikanan*, 15(2), 221–230. <https://doi.org/10.35316/jsapi.v15i2.4621>
- Mahardika, K., Mastuti, I., Septory, R., Roza, D., & Nasukha, A. (2021). Pola Fluktuasi Populasi Bakteri di Perairan Pantai dan Teluk pada Sentra Budidaya Ikan Laut di Bali Utara. 16(1), 49–59.
- Marzinelli, E. M., Qiu, Z., Dafforn, K. A., Johnston, E. L., Steinberg, P. D., & Mayer-Pinto, M. (2018). Coastal urbanisation affects microbial communities on a dominant marine holobiont. *Npj Biofilms and Microbiomes*, 4(1). <https://doi.org/10.1038/s41522-017-0044-z>
- Morrison, B. H., Jones, J. L., Dzwonkowski, B., & Krause, J. W. (2024). Tracking *Vibrio*: population dynamics and ecology of *Vibrio* parahaemolyticus and *V. vulnificus* in an Alabama estuary. *Microbiology Spectrum*, 12(5), 4–6. <https://doi.org/10.1128/spectrum.03674-23>
- Nogueira, T., & Botelho, A. (2021). Metagenomics and other omics approaches to bacterial communities and antimicrobial resistance assessment in aquacultures. In *Antibiotiks* (Vol. 10, Issue 7). MDPI AG. <https://doi.org/10.3390/antibiotiks10070787>
- Palladino, G., Rampelli, S., Scicchitano, D., Musella, M., Quero, G. M., Prada, F., Mancuso, A., Seyfarth, A. M., Turrone, S., Candela, M., & Biagi, E. (2021). Impact of marine aquaculture on the microbiome associated with nearby holobionts: The case of *patella caerulea* living in proximity of sea bream aquaculture cages. *Microorganisms*, 9(2), 1–17. <https://doi.org/10.3390/microorganisms9020455>
- Peixoto, R. S., & Voolstra, C. R. (2023). The baseline is already shifted: marine microbiome restoration and rehabilitation as essential tools to mitigate

- ecosystem decline. *Frontiers in Marine Science*, 10(June), 1–7. <https://doi.org/10.3389/fmars.2023.1218531>
- Pratiwi, M., Andayani, S., & Firdaus, M. (2021). Pemanfaatan *Pseudomonas Putida* Sebagai Bioremediator Limbah Ikan Koi (*Cyprinus Carpio* L.) Pada Sistem Akuaponik. *Jurnal Perikanan Unram*, 11(2), 178–185. <https://doi.org/10.29303/jp.v11i2.253>
- Royan, M. R., Solim, M. H., & Santanumurti, M. B. (2019). Ammonia-eliminating potential of *Gracilaria* sp. and zeolite: A preliminary study of the efficient ammonia eliminator in aquatic environment. *IOP Conference Series: Earth and Environmental Science*, 236(1). <https://doi.org/10.1088/1755-1315/236/1/012002>
- Saputra, P. Y., Yudasmara, G. A., & Kusuma Maharani, I. M. D. (2023). Analisis Storet Kualitas Sumber Air Pada Kegiatan Pembenihan Di Balai Perbenihan Ikan (BPI) Buleleng, Bali. *Pena Akuatika : Jurnal Ilmiah Perikanan Dan Kelautan*, 22(2), 63. <https://doi.org/10.31941/penaakuatika.v22i2.2236>
- Sari, P. D. P., Arthana, I. W., & Julyantoro, P. G. S. (2023). Kesesuaian Ekologi Budidaya Udang Vaname (*Litopenaeus Vannamei*) Pada Tambak Semi Intensif Di Kecamatan Gerokgak, Bali. *Jurnal Riset Akuakultur*, 17(2), 121. <https://doi.org/10.15578/jra.17.2.2022.121-132>
- Sambles, C., Moore, K., Lux, T. M., Jones, K., Littlejohn, G. R., Gouveia, J. D., Aves, S. J., Studholme, D. J., Lee, R., & Love, J. (2017). Metagenomic analysis of the complex microbial consortium associated with cultures of the oil-rich alga *Botryococcus braunii*. *MicrobiologyOpen*, 6(4). <https://doi.org/10.1002/mbo3.482>
- Santoso, D. H., Prasetya, J. D., & Rahman, D. (2020). Analisis Daya Dukung Lingkungan Hidup Berbasis Jasa Ekosistem Penyediaan Air Bersih Di Pulau Karimunjawa. *Jurnal Ilmu Lingkungan*, 18(2), 290–296. <https://doi.org/10.14710/jil.18.2.290-296>
- Scabra, A. R., Afriadin, A., & Marzuki, M. (2022). Efektivitas Peningkatan Oksigen Terlarut Menggunakan Perangkat Microbubble Terhadap Produktivitas Ikan Nila (*Oreochromis niloticus*). *Jurnal Perikanan Unram*, 12(1), 13–21. <https://doi.org/10.29303/jp.v12i1.269>

- Setiabudi, G. I., Antara, K. L., Fain, H., Widhyani, A., & Ismet, M. S. (2026). Analysis of Abundance and Composition of Culturable Bacteria and Their Relationship with Water Quality Parameters in Intensive Shrimp Ponds. *Journal Tropical Biodiversity and Environmental Sciences* 10(1): 1-6.
- Setiabudi, G. I., Bengen, D. G., Effendi, H., & Radjasa, O. K. (2016a). The Community Structure of Phytoplankton in Seagrass Ecosystem and its Relationship with Environmental Characteristics. *Biosaintifika: Journal of Biology & Biology Education*, 8(3), 257. <https://doi.org/10.15294/biosaintifika.v8i3.6549>.
- Setiabudi, G. I., Fain, H., Dewi, N., Hapsari, N., Saraswati, N., Anam, H., Dewi, I., & Widhyani, A. (2026). Restorasi Lamun Berbasis Kemitraan Masyarakat Di Desa Pemuteran Menggunakan Abtralo Untuk Penyelamatan Dugong, Penguatan Karbon Biru dan Wisata Bahari Berkelanjutan. *Jurnal Widya Laksana* Volume 15, Issue 1, 2026, pp. 38-46.
- Shah, R. M., Crosswell, J., Metcalfe, S. S., Carlin, G., Morrison, P. D., Karpe, A. V., Palombo, E. A., Steven, A. D. L., & Beale, D. J. (2019). Influence of Human Activities on Broad-Scale Estuarine-Marine Habitats Using Omics-Based Approaches Applied to Marine Sediments. *Microorganisms*, 7(10), 419. <https://doi.org/10.3390/microorganisms7100419>
- Shih, C., Chin, C., Chen, S., Hsu, C., Kan, L & Tzou, W.-S. (2023). Microbial community and genome structure in coastal seawater from a commercial port and nearby offshore island in northern Taiwan. *Journal of Marine Science and Technology*, 31(4). <https://doi.org/10.51400/2709-6998.2726>
- Sudinno, D., Djunaidah, I. S., Eliyani, Y., & Kasmawijaya, A. (2018). Kualitas Perairan Pesisir Kabupaten Pangandaran Propinsi Jawa Barat Untuk Budidaya Udang. *Prosiding Seminar Nasional Perikanan Dan Pneyuluhan 2018, September 2018*, 111–118.
- Supriatna, S., Mahmudi, M., Musa, M., & Kusriani, K. (2020). Hubungan pH Dengan Parameter Kualitas Air Pada Tambak Intesif Udang Vannamei (*Litopenaeus vannamei*). *JFMR-Journal of Fisheries and Marine Research*, 4(3), 368–374.
- Suwarsih, Marsoedi, Harahab, N., & Mahmudi, M. (2016). Kondisi Kualitas Air

- Pada Budidaya Udang Di Tambak Wilayah Pesisir Kecamatan Palang Kabupaten Tuban. *Prosiding Seminar Nasional Kelautan 2016*, 27, 138-143.
- Takwin, B. A., Setyowaty, D. N., & Azhar, F. (2022). Pengaruh pemberian ekstrak daun jarak pagar (*Jatropha curcas* L.) terhadap sistem imun udang vaname (*Litopenaeus vannamei*) yang diinfeksi bakteri *Vibrio harveyi*. *Jurnal Ilmu Kelautan Kepulauan*, 5(2), 598–609. <https://doi.org/10.33387/jikk.v5i2.5483>.
- Tamrin, T., Nicolas William Schadu, J., Sambali, H., Sjaltout Wantasen, A., Maria Helena Mantiri, D., Charles Kepel, R., Mercedes Mingkid, W., Jurike Kalesaran, O., Wahidin, N., Aris, M., Abdullah, T., Perikanan dan Ilmu Kelautan, F., Khairun, U., Utara, M., Sam Ratulangi, U (2024). Abundance Of *Vibrio* Spp. In The West Halmahera Coastal Area. *Jurnal Ilmiah Kelautan Dan Perikanan*, 5(3), 260–265.
- Tangguda, S., & Prasetya, I. N. D. (2019). Produksi *Chlorella* sp. dengan Perlakuan Limbah Cair Tambak Udang Vaname (*Litopenaeus vannamei*) Steril. *Indonesian Journal of Fisheries Science and Technology*, 14(2), 96–99.
- Tyastutiningsih, E. Y., & Santoso, D. (2023). Pengaruh Kombinasi Probiotik *Bacillus* Spp Dan *Pediococcus Acidilactici* Terhadap Media Budidaya Udang Vananamei. *Jurnal Pari*, 8(2), 111. <https://doi.org/10.15578/jp.v8i2.12141>
- Ummah, M. S. (2019). Badan Pusat Statistik Kabupaten Buleleng. In *Sustainability (Switzerland)* (Vol. 11, Issue 1).
- Wahyudi, Setiyono, A., & Jayanthi, O. W. (2014). Studi Kualitas Dan Potensi Pemanfaatan Air Tanah Dangkal Di Pesisir Surabaya Timur. *Jurnal Eksplorium*, 35(1), 43–56.
- Wang, X., Li, H., Zhang, R., Liu, X., Nan, F., Liu, Q., Lv, J., Feng, J., Xie, S., & Liu, Y. (2024). Bacterial community and dissolved organic matter networks in urban river: The role of human influence. *Environmental Research*, 263, 120021. <https://doi.org/10.1016/j.envres.2024.120021>.
- Yudasmara, G. A. (2016). Pengelolaan Kawasan Pesisir Kabupaten Buleleng Melalui Pengembangan Mina Wisata Bahari (*Management of Buleleng*

Coastal Areas Through the Marine Fisheries Tourism Development).
Jurnal Manusia Dan Lingkungan, 23(3), 381.
<https://doi.org/10.22146/jmL.18810>.

