

DAFTAR PUSTAKA

- Acosta, V., Glem, M. E., Natera, Y., Urbano, T., Himmelman, J. H., Rey-Mende, M., dan Lodeiron, C. 2009. Differential growth of the mussel *Perna perna* and *Perna viridis* (Bivalvia : *Mytilidae*) in suspended culture in the Golfo de Cariaco, Venezuela. *Journal World Aquaculture Society*, **40**: 226–235.
- Adisasmita, R. 2006. *Pembangunan Kelautan dan Kewilayahan* (Vol. 16). Graha Ilmu.
- Agustina, T. 2014. Kontaminasi Logam Berat pada Makanan dan Dampaknya pada Kesehatan. *Jurnal Teknologi Busana Dan Boga*, **1**(1): 53–65.
- Aminin, A., Rahim, A. R., dan Safitri, N. M. 2020. Respons teknologi depurasi terhadap kadar timbal (Pb) dalam kerang hijau hasil pembudidayaan di Pantai Banyuurip Kecamatan Ujung Pangkah Kabupaten Gresik. *Jurnal Perikanan Pantura*, **3**(2): 22–35.
- Anacleto, P., Maulvault, A. L., Chaguri, M., Pedro, S., Nunes, M. L., Rosa, R., dan Marques, A. 2013. Microbiological responses to depuration and transport of native and exotic clams at optimal and stressful temperatures. *Food Microbiology*, **36**(2): 365–373.
- Anacleto, P., Maulvault, A. L., Nunes, M. L., Carvalho, M. L., Rosa, R., dan Marques, A. 2015. Effects of depuration on metal levels and health status of bivalve molluscs. *Food Control*, **47**: 493–501.
- Anandkumar, A., Nagarajan, R., K., P., Bing, C. H., dan R., R. 2018. Human health risk assessment and bioaccumulation of trace metals in fish species collected from the Miri coast, Sarawak, Borneo. *Marine Pollution Bulletin*, **133**: 655–663.
- Arifin, W., Rahardja, B. S., and Pursetyo, K. T. 2021. Depuration of heavy metals Pb and Cd content in blood cockles (*Anadara antiquata*) with different filters. *IOP Conference Series: Earth and Environmental Science*, **679**(1): 012055.
- Astuti, I. , S., Karina, dan Dewiyanti, I. 2016. Analisis kandungan logam berat Pb pada tiram *Crassostrea cucullata* di Pesisir Krueng Raya, Aceh Besar. *Jurnal Ilmiah Mahasiswa Kelautan Perikanan Unsyiah*, **1**(1): 104–113.
- Atkins, P. W. 1999. *Kimia Fisika Jilid II*. Erlangga.
- Badan Pusat Statistik. 2022. *Rata-rata Konsumsi Perkapita Seminggu Menurut Kelompok Ikan (Kg) Per Kabupaten/kota (Satuan Komoditas)*, 2022. BPS.
- Baker, R. S. J. d. 2007. Modeling and understanding students' off-task behavior in intelligent tutoring systems. *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*, 1059–1068.

- Batara K., Badrus Z., dan Wiharyanto O. 2017. Pengaruh Debit Udara dan Waktu Aerasi Terhadap Efisiensi Penurunan Besi dan Mangan Menggunakan Diffuser Aerator pada Air Tanah. *J. Teknik Lingkungan*, **6**(1): 1-10.
- Bergés-Tiznado, M. E., Márquez-Farías, F., Lara-Mendoza, R. E., Torres-Rojas, Y. E., Galván-Magaña, F., Bojórquez-Leyva, H., and Páez-Osuna, F. 2015. Mercury and Selenium in Muscle and Target Organs of Scalloped Hammerhead Sharks *Sphyrna lewini* of the SE Gulf of California: Dietary Intake, Molar Ratios, Loads, and Human Health Risks. *Archives of Environmental Contamination and Toxicology*, **69**(4): 440-452.
- Bernard, F. R. 1989. Uptake and elimination of Coliform Bacteria by four marine bivalve Mollusks. *Journal Fisheries Aquatics Science*, **46**: 1592-1599.
- Laffon, B., Rábade T., Pásaro E., and Méndez J. 2006. Monitoring of the impact of Prestige oil spill on *Mytilus galloprovincialis* from Galician coast. *Environment International*, **32**(3): 342-348.
- Borrell, A., Tornero, V., Bhattacharjee, D., and Aguilar, A. 2016. Trace element accumulation and trophic relationships in aquatic organisms of the Sundarbans mangrove ecosystem (Bangladesh). *Science of The Total Environment*, **545**: 414-423.
- Buzea, C., Pacheco, I. I., and Robbie, K. 2007. Nanomaterials and nanoparticles: Sources and toxicity. *Biointerphases*, **2**(4): 17-71.
- Cappenberg, H. A. 2008. *Beberapa Aspek Biologi Kerang Hijau Perna viridis Linnaeus 1758 Oleh*. 33-40. www.oseanografi.lipi.go.id
- Chaerunnisa, R., dan Supardi, U. S. 2021. Persentase Penurunan Kadar Logam Berat Timbal pada Kerang Hijau (*Perna viridis*) Pasca Proses Depurasi oleh Nelayan Teluk Jakarta. *EduBiologia: Biological Science and Education Journal*, **1**(2): 121.
- Chinnadurai, S., Mohamed, K. S., Venkatesan, V., Sharma, J., and Kripa, V. 2014. Depuration of Bacterial Populations in the Indian Backwater Oyster *Crassostrea madrasensis* (Preston, 1916): Effects on Surface and Bottom Held Oysters. *Journal of Shellfish Research*, **33**(2): 409-414.
- Cui, B., Zhang, Q., Zhang, K., Liu, X., and Zhang, H. 2011. Analyzing trophic transfer of heavy metals for food webs in the newly-formed wetlands of the Yellow River Delta, China. *Environmental Pollution*, **159**(5): 1297-1306.
- Dahuri, R. 1996. *Pengaruh Pencemaran Limbah Industri Terhadap Potensi Sumber Daya Laut*.
- Dahuri, R. 2003. *Keanekaragaman Hayati Laut: Aset Pembangunan Berkelanjutan Indonesia*. PT. Gramedia Pustaka Utama.

- Dahuri, R., Rais, J., Ginting, S., dan Sitepu, M. 2008. *Pengelolaan Sumber daya Wilayah Pesisir dan Lautan Secara Terpadu*. Pradnya Paramita.
- Edward. 2014. Kandungan logam berat dalam sedimen di Perairan Teluk Wawobatu, Kendari, Sulawesi Tenggara. *Depik*, **3**(2): 157-165.
- Edward. 2015. Penilaian tingkat pencemaran logam berat dalam sedimen di perairan Pulau Morotai, Maluku Utara. *Depik*, **4**(2): 95-106.
- Effendie. 1997. *Biologi Perikanan*. Yayasan Pustaka Nusatama.
- Ellis, J., Cummings, V., Hewitt, J., Thrush, S., and Norkko, A. 2002. Determining effects of suspended sediment on condition of a suspension feeding bivalve (*Atrina zelandica*): results of a survey, a laboratory experiment and a field transplant experiment. *Journal of Experimental Marine Biology and Ecology*, **267**(2): 147-174.
- El-Shenawy, N. S. 2004. Heavy-metal and microbial depuration of the clam *Ruditapes decussatus* and its effect on bivalve behavior and physiology. *Environmental Toxicology*, **19**(2): 143-153.
- Eshmat, M. E., Mahasri, G., and Rahardja, B. S. 2014. Analysis Of Heavy Metal Content Of Lead (Pb) And Cadmium (Cd) Shells On Green (*Perna viridis* L.) On Water District Ngemboh Gresik East Java. *Jurnal Ilmiah Perikanan Dan Kelautan*, **6**(1): 101-108.
- Fadlilah, I., Triwuri, N. A., Prasadi, O., Pengendalian, 1 Teknik, Lingkungan, P., Cilacap, P. N., dan Kunci, K. 2023. Biokonsentrasi Faktor Logam Berat Timbal (Pb) pada Ikan di Pantai Kemiren Cilacap, Jawa tengah. In *Jurnal Teknologi Lingkungan Lahan Basah*, **11**(1).
- FAO. 2000. *Application of Contingent Valution Method in Developing Countries*. FAO.
- FAO. 2013. *Food and Agriculture Organization of the United Nations for a world without hunger Fisheries and Aquaculture Department*.
- FAO. 2018. *The State of World Fisheries and Aquaculture 2018 - meeting the sustainable development goals*. C BY-NC-SA 3.0 IGO.
- Ferner, D. J. 2001. Toxicity, heavy metals. *EMed*.
- Furfari, S. A. 1966. Depuration plant design. *Washington, D.C. Public Health Service, Division of Environmental Engineering and Food Protection*, 119.
- Gan, P., Ikeda, K., Irieda, H., Narusaka, M., O'Connell, R. J., Narusaka, Y., Takano, Y., Kubo, Y., and Shirasu, K. 2013. Comparative genomic and transcriptomic analyses reveal the hemibiotrophic stage shift of *Colletotrichum* fungi. *New Phytologist*, **197**(4): 1236-1249.

- Gosling, E. 2015. *Marine Bivalve Molluscs*. Wiley.
- Griboff, J., Horacek, M., Wunderlin, D. A., dan Monferran, M. V. 2018. Bioaccumulation and trophic transfer of metals, As and Se through a freshwater food web affected by anthropic pollution in Córdoba, Argentina. *Ecotoxicology and Environmental Safety*, **148**: 275–284.
- Haryono, M. G., Mulyanto, dan Kilawati, Y. 2017. Kandungan Logam Berat Pb Air Laut, Sedimen Dan Daging Kerang Hijau *Perna viridis*. *Jurnal Ilmu Dan Teknologi Kelautan Tropis*, **9**(1): 1–7.
- Herlandien, Y. L. 2013. *Pemanfaatan Arang Aktif Sebagai Absorban Logam Berat Dalam Air Lindi Di Tpa Pakusari Jember*. Universitas Jember.
- Hidayah, A. M., Purwanto, dan Soeprbowati, T. R. 2014. Biokonsentrasi Faktor Logam Berat Pb, Cd, Cr dan Cu pada Ikan Nila (*Oreochromis niloticus* Linn.) di Karamba Danau Rawa Pening. *Jurnal BIOMA*, **16**(1): 1–9.
- Hidayati, N. V., Prudent, P., Asia, L., Vassalo, L., Torre, F., Widowati, I., Sabdon, A., Syakti, A. D., and Doumenq, P. 2020. Assessment of the ecological and human health risks from metals in shrimp aquaculture environments in Central Java, Indonesia. *Environmental Science and Pollution Research*, **27**(33): 41668–41687.
- Hidayati, N. V., Sahri Siregar, A., Kartika Sari, L., Laksana Putra, G., Putu Nugraha, I., dan Dhamar Syakti, A. 2014. Pendugaan Tingkat Kontaminasi Logam Berat Pb, Cd Dan Cr Pada Air Dan Sedimen Di Perairan Segara Anakan, Cilacap. *Omni Akuatika*, **13**(18): 30–39.
- Hu, C., Yang, X., Dong, J., and Zhang, X. 2018. Heavy metal concentrations and chemical fractions in sediment from Swan Lagoon, China: Their relation to the physiochemical properties of sediment. *Chemosphere*, **209**: 848–856.
- Hu, C., Yang, X., Gao, L., Zhang, P., Li, W., Dong, J., Li, C., and Zhang, X. 2019. Comparative analysis of heavy metal accumulation and bioindication in three seagrasses: Which species is more suitable as a bioindicator? *Science of The Total Environment*, **669**: 41–48.
- Huang, L., Pu, X., Pan, J. F., and Wang, B. 2013. Heavy metal pollution status in surface sediments of Swan Lake lagoon and Rongcheng Bay in the northern Yellow Sea. *Chemosphere*, **93**(9): 1957–1964.
- Indirawati, S. M. 2017. Pencemaran logam berat Timbal (Pb) dan Besi (Fe) dalam Air Laut di Wilayah Pesisir belawan. *Jumatik*, **2**(2): 41–50.
- Ismarti, I., Ramses, R., Amelia, F., dan Suheryanto, S. 2017. Kandungan tembaga (Cu) dan timbal (Pb) pada lamun *Enhalus accoroides* dari Perairan Batam, Riau Kepulauan, Indonesia. *Depik*, **6**(1): 9–22.

- Juharna, F. M., Widowati, I., dan Endrawati, H. 2022. Kandungan Logam Berat Timbal (Pb) dan Kromium (Cr) pada Kerang Hijau (*Perna viridis*) di Perairan Morosari, Sayung, Kabupaten Demak. *Buletin Oseanografi Marina*, **11**(2): 139–148.
- Kadirvelu, K., Thamaraiselvi, K., and Namasivayam, C. 2001. Removal of Heavy Metals from Industrial Wastewaters by Adsorption onto Activated Carbon Prepared from an Agricultural Solid Waste. *Bioresource Technology*, **76**(1): 63–65.
- Kasam, Andik, Y., dan Titin. 2005. Penurunan N-Total dalam Limbah Cair Laboratorium Menggunakan Filter Karbon Aktif Arang Tempurung Kelapa. *Jurnal Logika*, **2**(2).
- Kasari, A. F. 2016. *Pollution status based on heavy metal Pb, Hg, Cd, and Ag in water and sediment at Donan River Estuary, Eastern Segara Anakan*. IPB University.
- Keshavarzi, B., Hassanaghaei, M., Moore, F., Rastegari Mehr, M., Soltanian, S., Lahijanzadeh, A. R., and Sorooshian, A. 2018. Heavy metal contamination and health risk assessment in three commercial fish species in the Persian Gulf. *Marine Pollution Bulletin*, **129**(1): 245–252.
- KKP. 2018. *Produktivitas perikanan indonesia*.
- Kumar, V., Abbas, A., dan Aster, J. 2017. *Robbins Basic Pathology* (10th ed.). Elsevier.
- Lees, D., Younger, A., and Dore, B. 2010. Depuration and relaying. *Safe Management of Shellfish and Harvest Waters*, 145–181.
- Liliandari, R., dan Aunurohim. 2013. Kecepatan filtrasi kerang hijau *Perna viridis* terhadap *Chaetoceros sp.* dalam media logam tercemar kadmium. *Jurnal Sains Dan Seni Pomits*, **2**(2): 2337–3520.
- Linnaeus, C. von. 1758. *Caroli Linnaei...Systema naturae per regna tria naturae :secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis*. Impensis Direct. Laurentii Salvii.
- Liu, J., Cao, L., and Dou, S. 2019. Trophic transfer, biomagnification and risk assessments of four common heavy metals in the food web of Laizhou Bay, the Bohai Sea. *Science of The Total Environment*, **670**: 508–522.
- Liu, Q., Liao, Y., and Shou, L. 2018. Concentration and potential health risk of heavy metals in seafoods collected from Sanmen Bay and its adjacent areas, China. *Marine Pollution Bulletin*, **131**: 356–364.
- Liyana, S. H., Sari, L. A., Dewi, N. N., Masithah, E. D., Sahidu, A. M., and Pursetyo, K. T. 2019. Distribution patterns and the biomass of bivalves at

- Segoro Tambak estuary, Sedati, Sidoarjo, East Java. *IOP Conference Series: Earth and Environmental Science*, **236**.
- Loekman, N. A., Manan, A., Arief, M., dan Prayogo, P. 2018. Teknik Pendederan Kerang Abalon (*Haliotis squamata*) Di Balai Besar Penelitian Dan Pengembangan Budidaya Laut Gondol-Bali. *Journal of Aquaculture and Fish Health*, **7**(2): 78.
- Love, D. C., Lovelace, G. L., and Sobsey, M. D. 2010. Removal of *Escherichia coli*, *Enterococcus fecalis*, coliphage MS2, poliovirus, and hepatitis A virus from oysters (*Crassostrea virginica*) and hard shell clams (*Mercinaria mercinaria*) by depuration. *International Journal of Food Microbiology*, **143**(3): 211–217.
- Lu, G. Y., Ke, C. H., Zhu, A., and Wang, W. X. 2017. Oyster-based national mapping of trace metals pollution in the Chinese coastal waters. *Environmental Pollution*, **224**, 658–669.
- Lu, G. Y., and Wang, W. X. 2018. Trace metals and macroelements in mussels from Chinese coastal waters: National spatial patterns and normalization. *Science of The Total Environment*, **626**: 307–318.
- Meirikayanti, H. 2018. *Analisis Kandungan Logam Berat Tembaga (Cu) Pada Kepiting Bakau (Scylla sp.) Di Sungai Wonorejo, Surabaya = Analysis Of Heavy Metal Copper (Cu) Content In Mud Crab (Scylla sp.) At Wonorejo River, Surabaya*.
- Mirawati, F., Supriyantini, E., dan Nuraini, R. A. T. 2016. Kandungan Logam Berat Timbal (Pb) Pada Air, Sedimen, Dan Kerang Hijau (*Perna viridis*) Di Perairan Trimulyo Dan Mangunharjo Semarang. *BULETIN OSEANOGRAFI MARINA*, **5**(2): 121.
- Mohanty, R. K., Ambast, S. K., Panigrahi, P., and Mandal, K. G. 2018. Water quality suitability and water use indices: useful management tools in coastal aquaculture of *Litopenaeus vannamei*. *Aquaculture*, **485**: 210–219.
- Mok, J. S., Yoo, H. D., Kim, P. H., Yoon, H. D., Park, Y. C., Lee, T. S., Kwon, J. Y., Son, K. T., Lee, H. J., Ha, K. S., Shim, K. B., and Kim, J. H. 2015. Bioaccumulation of Heavy Metals in Oysters from the Southern Coast of Korea: Assessment of Potential Risk to Human Health. *Bulletin of Environmental Contamination and Toxicology*, **94**(6): 749–755.
- Monferrán, M. V., Garnero, P., de los Angeles Bistoni, M., Anbar, A. A., Gordon, G. W., and Wunderlin, D. A. 2016. From water to edible fish. Transfer of metals and metalloids in the San Roque Reservoir (Córdoba, Argentina). Implications associated with fish consumption. *Ecological Indicators*, **63**: 48–60.

- Murdinah. 2009. Penanganan Dan Diversifikasi Produk Olahan Kerang Hijau. *Squalen Bulletin of Marine and Fisheries Postharvest and Biotechnology*, **4**(2): 61–71.
- Nagarjuna, A., Karthikeyan, P., Marigoudar, S. R., and Sharma, K. V. 2019. Effect of sublethal gradient concentrations of nickel on postlarvae of *Penaeus monodon*, *Perna viridis* and *Terapon jarbua*: Enzyme activities and histopathological changes. *Chemosphere*, **237**: 124428.
- Nurdin, J. 2008. *Kepadatan dan Keanekaragaman Kerang Intertidal (Mollusca: bivalve) di Perairan Pantai Sumatera Barat*. Universitas Lampung.
- Nurjannah, N. A. 2017. Analisis Cemar Logam Berat Timbal (Pb) dalam Kerang Darah (*Anadara granosa*) dan Kerang Patah (*Meretrix lyrata*) di Muara Angke Menggunakan Spektrofotometer Serapan Atom. *Jurnal Riset Kesehatan*, **9**(2).
- Ogwuegbu, M. O. C., dan Muhanga, W. 2005. Investigation of Lead Concentration in the Blood of People in the Copperbelt Province of Zambia. *Journal of Environment*, **1**: 66–75.
- Pandey, S., Parvez, S., Ansari, R. A., Ali, M., Kaur, M., Hayat, F., Ahmad, F., and Raisuddin, S. 2008. Effects of exposure to multiple trace metals on biochemical, histological and ultrastructural features of gills of a freshwater fish, *Channa punctata* Bloch. *Chemico-Biological Interactions*, **174**(3): 183–192.
- Paramitha, P. A., Yusuf Taufik Hidayat, Kamiliya Zahrah Taher, Intan Cahyarini, Boedi Setya Rahardja, A Shofy Mubarak, and Tri Pursetyo, K. 2022. Depuration of Heavy Metals with Nanoparticle-Sized Active Charcoal from Coconut Shell (*Cocos nucifera*) in Blood Cockles (*Anadara granosa*). *Journal of Marine and Coastal Science*, **11**(2): 56–64.
- Patrick-Iwuanyanwu, K., Egbuna, C., and Obasi, M. 2020. *Human Health Risk Assessment of Heavy Metals via Consumption of Selected Seafoods from Three Different Open Markets in Bayelsa State*.
- Paul, B., and Vogl, C. R. 2013. Organic shrimp aquaculture for sustainable household livelihoods in Bangladesh. *Ocean dan Coastal Management*, **71**: 1–12.
- Perkins, F. O., Haven, D. S., Morales-Alamo, R., dan Rhodes, M. W. 1980. Uptake and elimination of bacteria in shellfish. *Journal Food Pro*, **43**: 124–126.
- Potter, W. J. 2013. Review of Literature on Media Literacy. *Sociology Compass*, **7**(6): 417–435.
- Pramudyanto, B. 2014. Pengendalian Pencemaran dan Kerusakan di Wilayah Pesisir. *Jurnal Lingkar Widyaiswara*, **1**(4): 21–40.

- Priatna, D. E., Purnomo, T., dan Kuswanti, N. 2016. Kadar logam berat timbal (Pb) pada air dan ikan bader (*Barbonymus gonionotus*) di sungai Brantas wilayah Mojokerto. *LenteraBio*, **5**(1): 48-53.
- Purnomo, D. B., Haeruddin, Siti, R., 2014. Depurasi Bahan Organik pada Berbagai Ukuran Cangkang Kerang *Anodonta woodiana* di Balai Benih Ikan (BBI), Siwarak, Ungaran Depuration. *Journal of Maquares*, **3**(4): 67-74.
- Puspitasari, I. M., Garnisa, I. T., Sinuraya, R. K., and Witriani, W. 2020. Perceptions, Knowledge, and Attitude Toward Mental Health Disorders and Their Treatment Among Students in an Indonesian University. *Psychology Research and Behavior Management*, **13**: 845-854.
- Rahde, A. F. 1991. Lead Inorganic. *IPCS INCHEM*, 1-24.
- Rahman, A., Aziz, R., Indrawati, A., dan Usman, M. 2020. Pemanfaatan Beberapa Jenis Arang Aktif sebagai Bahan Absorben Logam Berat Cadmium (Cd) pada Tanah Sedimen Drainase Kota Medan sebagai Media Tanam. *Jurnal Agroteknologi Dan Ilmu Pertanian*, **5**(1).
- Rahmawati, Hamzah, B., dan Nuryanti, S. 2015. Analisis Kadar Timbal (Pb) dalam Daging Kerang Bakau (*Polymesoda erosa*) dan Kerang Darah (*Anadara granosa*) di Perairan Salule Pasangkayu Sulawesi Barat. *Jurnal Akademika Kimia*, **4**(2): 78-83.
- Rajagopal, S., Venugopalan, V. P., van der Velde, G., and Jenner, H. A. 2006. Greening of the coasts: a review of the *Perna viridis* success story. *Aquatic Ecology*, **40**(3): 273-297.
- Rasman, M. S., 2016. Penurunan Kadar Besi (Fe) dengan Sistem Aerasi dan Filtrasi Pada Air Sumur Gali. *J. Higiene*, **2**(3): 159-167.
- Rayyan, M. F., Yona, D., Hikmah, S., and Sari, J. 2019. *Health Risk Assessments Of Heavy Metals Of Perna Viridis From Banyuurip Waters In Ujung Pangkah, Gresik.*
- Retnosari, D., Rejeki, S., Susilowati, T., dan Ariyati, R. W. 2019. Laju Filtrasi Bahan Organik Oleh Kerang Hijau (*Perna viridis*) Sebagai Biofilter Serta Dampaknya Terhadap Pertumbuhan Dan Kelulushidupan Udang Windu (*Penaeus monodon*). *Sains Akuakultur Tropis*, **3**(1).
- Rose, R. L., Hodgson, E., dan Roe, R. M. 1999. Chapter 28 - Pesticides. *Toxicology*, 663-697.
- Sanjayasari, D., and Jeffs, A. 2019. Optimising environmental conditions for nursery culture of juvenile Greenshell mussels (*Perna canaliculus*). *Aquaculture*, **512**: 734338.

- Santos, E. E., Lauria, D. C., dan Porto Da Silveira, C. L. 2004. Assessment of daily intake of trace elements due to consumption of foodstuffs by adult inhabitants of Rio de Janeiro City. *Science Total Environment*, **327**: 69–79.
- Sasnita., S., Karina, dan Nurfadillah. 2017. Analisis logam Pb pada kerang *Anadara granosa* dan Air Laut di Kawasan Pelabuhan Nelayan Gampong Deah Glumpang Kota Banda Aceh. *Jurnal Ilmiah Mahasiswa Kelautan Perikanan Unsyiah*, **2**(1): 74–79.
- Shaker, I. M., Elnady, M. A., Abdel-Wahed, R. K., and Soliman, M. A. M. 2018. Assessment of heavy metals concentration in water, sediment and fish under different management systems in earthen ponds. *Egyptian Journal of Aquatic Biology and Fisheries*, **22**(1): 25–39.
- Shumway, S. E., Davis, C. V, Downey, R. A., Karney, R. C., Kraeuter, John. N., Rheault, R. B., and Wikfors, G. H. 2003. *Shellfish aquaculture – In praise of sustainable economies and environments*.
- Siaka, I. M., Suastuti, I. G. A. M. D. A., dan Mahendra, I. P. B. 2016. Distribusi Logam Berat Pb Dan Cu Pada Air Laut, Sedimen, Dan Rumput Laut Di Perairan Pantai Pandawa. *Jurnal Kimia*.
- Sihombing, J. B. F. 2007. *Penggunaan Media Filtran Dalam Upaya Mengurangi Beban Cemar Limbah Cair Industri Kecil Tapioka*. IPB.
- Simbolon, A. R. 2018. Analisis Risiko Kesehatan Pencemaran Timbal (Pb) Pada Kerang Hijau (*Perna viridis*) di Perairan Cilincing Pesisir DKI Jakarta. *Oseanologi Dan Limnologi Di Indonesia*, **3**(3): 197.
- Soegianto, A., Putranto, T. W. C., Lutfi, W., Almirani, F. N., Hidayat, A. R., Muhammad, A., Firdaus, R. A., Rahmadhani, Y. S., Fadila, D. A. N., and Hidayati, D. 2020. Concentrations of Metals in Tissues of Cockle *Anadara granosa* (Linnaeus, 1758) from East Java Coast, Indonesia, and Potential Risks to Human Health. *International Journal of Food Science*, 1–9.
- Soon, T. K., and Ransangan, J. 2014. A Review of Feeding Behavior, Growth, Reproduction and Aquaculture Site Selection for Green-Lipped Mussel, *Perna viridis*. *Advances in Bioscience and Biotechnology*, **5**(5): 462–469.
- Soto, M., Ireland, M. P., and Marigómez, I. 2000. Changes in mussel biometry on exposure to metals: implications in estimation of metal bioavailability in 'Mussel-Watch' programmes. *Science of The Total Environment*, **247**(2–3): 175–187.
- Suantika G., Situmorang M.L., Kurniawan J.B., Pratiwi S.A., Aditiawati P., Astuti D.I., Azizah F.F.N., Djohan Y.A., Zuhri U., and Simatupang T.M. 2018. Development of a zero water discharge (ZWD) recirculating aquaculture system (RAS) hybrid system for super intensive white shrimp (*Litopenaeus*

- vannamei*) culture under low salinity conditions and its industrial trial in commercial shrimp urban farming in Gresik, East Java, Indonesia. *Aquac Eng*, **82**: 12–24.
- Suligundi B T. 2013. Penurunan Kadar COD (*Chemical Oxygen Demand*) pada Limbah Cair Karet dengan Menggunakan Reaktor Biosand Filter yang Dilanjutkan dengan Reaktor Activated Carbon. *Jurnal Teknik Sipil Untan*, **13**(1): 29–44.
- Suligundi, B. T. 2013. *Penurunan Kadar Cod (Chemical Oxygen Demand) Pada Limbah Cair Karet Dengan Menggunakan Reaktor Biosand Filter Yang Dilanjutkan Dengan Reaktor Activated Carbon.*
- Sulmartiwi L, Harijadi N, Pursetyo K T, Arifin W, dan Rahardja B S. 2016. Business Analysis of Intensive Fish Farming with Aquaponic System using Probiotic and Biofertilizer from Gracilaria sp. Seaweed Waste. *AJAS*, **4**: 337–341.
- Supriharyono. 2009. *Konservasi Ekosistem Sumberdaya Hayati di Wilayah Pesisir dan Laut Tropis*. Pustaka Pelajar.
- Suryono, C. A., Irwani, I., Rochaddi, B., Setyati, W. A., and Indardjo, A. 2021. Kontaminasi Kerang Filter Feeder *Perna viridis* Linnaeus, 1758 (Bivalvia: Mytilidae) oleh Pestisida Organofosfat di Perairan Laut Brebes Jawa Tengah Indonesia. *Jurnal Kelautan Tropis*, **24**(2): 205–210.
- Suwignyo P, Suwignyo S, dan Suwardi K. 1984. *Organisme Inang Glokidia Kijing Taiwan*.
- Syauqiah, I., Elma, M., Mailani, D. P., dan Pratiwi, N. 2020. Activated carbon from *Nypa (Nypa fruticans)* leaves applied for the Fe and Mn removal. *IOP Conference Series: Materials Science and Engineering*, **980**(1): 012073.
- Tan, W. H. 1975. Egg And Larval Development In The Green Mussel *Mytilus-viridis*. *The Veliger*, **18**: 151–155.
- Triantoro, R. G. N., dan Yuliana, S. 2017. Jenis vegetasi pada pasir peneluran dan pengaruhnya terhadap keberadaan sarang kura-kura moncong babi di Kaimana, Papua. *PROS SEM NAS MASY BIODIV INDON*, **3**(3): 287–293.
- Tridoyo, K. 2012. *engelolaan Wilayah Pesisir dan Laut. In: Pentingnya Pengelolaan Wilayah Pesisir dan Laut*. Universitas Terbuka.
- Umbara, H., dan Heny Suseno. 2006. Faktor Bioakumulasi Pb Oleh Kerang Darah (*Anadara Granosa*), Pusat Teknologi Limbah Radioaktif. BATAN.
- USEPA. 2002. *review of the reference dose and reference concentration processes*. V. U.S. Environmental Protection Agency.

- USEPA. 2019. *Learn about Lead*. <https://www.epa.gov/lead/learn-aboutlead#effects>.
- Valencia, H. B., Caballar, E. J. M., Dioneda, S. C. C., Gomez, J. A. E., and Obanan, S. P. 2021. Heavy metal accumulation and risk assessment of lead and cadmium in cultured oysters (*Crassostrea iredalei*) of Cañacao Bay, Philippines. *Sustinere: Journal of Environment and Sustainability*, **5**(2): 64–78.
- Vernberg, W. B., and Vernberg, F. J. 1972. *Environmental Physiology of Marine Animals*. Springer Berlin Heidelberg.
- Widowati, W., Sastiono, A., dan Jusuf, R. 2008. *Efek Toksik Logam*.
- Yang, Y., Li, X. M., Sun, Z. H., Yang, T., Tan, Z. L., Wang, B. F., Han, X. F., and He, Z. X. 2012. The growth performance and meat quality of goats fed diets based on maize or wheat grain. *Journal Animal Feed Science*, **21**(4): 587–598.
- Yap, C. K., Cheng, W. H., Karami, A., and Ismail, A. 2016. Health risk assessments of heavy metal exposure via consumption of marine mussels collected from anthropogenic sites. *Science of The Total Environment*, **553**: 285–296.
- Yaqin, K., Fachruddin, L., dan Rahim, N. 2015. Studi Kandungan Logam Timbal (Pb) Kerang Hijau, *Perna viridis* Terhadap Indeks Kondisinya. *Jurnal Lingkungan Indonesia*, **3**: 309–317.
- Yousif, R., Choudhary, M. I., Ahmed, S., and Ahmed, Q. 2021. Review: Bioaccumulation of heavy metals in fish and other aquatic organisms from Karachi Coast, Pakistan. *Nusantara Bioscience*, **13**(1).
- Yulianto, B., Ario, R., dan Agung, T. 2006. Daya Serap Rumput Laut (*Gracillaria sp.*) Terhadap Logam Berat Tembaga (Cu) Sebagai Biofilter. *Jurnal Ilmu Kelautan*, **11**(2): 72–78.
- Zuykov, M., Pelletier, E., dan Harper, D. A. T. 2013. Bivalve mollusks in metal pollution studies: from bioaccumulation to biomonitoring. *Chemosphere*, **93**(2): 201–208.