

DAFTAR PUSTAKA

- Abriyani, E., Syalomita, D., Apriani, I. P., Puspawati, I., Adiputra, S., dan Nadeak, Z. T. 2024. Pengaruh Pengolahan Termal Terhadap Struktur Molekul Material Polimer Studi Dengan Spektroskopi FTIR. *Innovative: Journal Of Social Science Research*, **4**(1): 3424–3432.
- Alamsyah, R., dan Fadli, S. A. 2023. Kondisi sampah plastik di pantai desa patongko kabupaten sinjai sulawesi selatan. *Jurnal Kesehatan Lingkungan Indonesia*, **22**(2): 208–213.
- Allen, S., Allen, D., Phoenix, V. R., Le Roux, G., Durántez Jiménez, P., Simonneau, A., dan Galop, D. 2019. Atmospheric transport and deposition of microplastics in a remote mountain catchment. *Nature Geoscience*, **12**(5): 339–344.
- Andrady, A. L. 2011. Microplastics in the marine environment. *Marine Pollution Bulletin*, **62**(8): 1596–1605.
- Andrady, A. L. 2017. The plastic in microplastics: A review. *Marine Pollution Bulletin*, **119**(1): 12–22.
- Arijuatoa, G. N., Hendrawana, I. G., dan Darmendra, I. P. 2023. Kandungan mikroplastik pada gastropoda di kawasan Tahura Ngurah Rai, Bali. *Journal of Marine Research and Technology*, **6**(2): 110–115.
- Astuti, A. D., Wahyudi, J., Ernawati, A., dan Aini, S. Q. 2020. Kajian Pendirian Usaha Biji Plastik di Kabupaten Pati, Jawa Tengah. *Jurnal Litbang: Media Informasi Penelitian, Pengembangan dan IPTEK*, **16**(2): 95–112.
- Aura, C. M. 2024. Microplastic pollution in Arctic sea ice: A 2023 assessment. *Marine Pollution Bulletin*, **200**: 116078.
- Auta, H. S., Emenike, C. U., dan Fauziah, S. H. 2017. Distribution and importance of microplastics in the marine environment: A review of the sources, fate, effects, and potential solutions. *Environment International*, **102**: 165–176.
- Avio, C. G., Gorbi, S., dan Regoli, F. 2017. Plastics and microplastics in the oceans: From emerging pollutants to emerged threat. *Marine Environmental Research*, **128**: 2–11.
- Ayuningtyas, W. C., Yona, D., Julianda, S. H., dan Iranawati, F. 2019. Kelimpahan mikroplastik pada perairan di banyuurip, gresik, jawa timur. *Journal of Fisheries and Marine Research*, **3**(1): 41–45.
- Azis, M. Y., dan Alvarado, A. 2024. Evidence of microplastic uptake by mud clam (*Geloina expansa*) in the mangrove sediments of butuan bay, mindanao, philippines. *Environmental Science Research*, **31**(1): 1–21.
- Azizah, M. 2014. Korelasi antara kelimpahan vegetasi mangrove dan kerang totok *Geloina expansa* dengan faktor lingkungan di segara anakan, cilacap. *Jurnal Sains Natural Universitas Nusa Bangsa*. **4**(1): 76 – 84.
- Browne, M. Anthony, Phillip Crump, Stewart J. N., Emma T., Andrew T., Tamara Galloway, dan Richard Thompson. 2011. Accumulation of microplastic on shorelines worldwide: sources and sinks. *Environmental Science dan Technology*. **45**: 9175–9179.
- Chen, Bin. 2020. Current status and trends of research on microplastic fugacity characteristics and pollution levels in mangrove wetlands. Review. *Frontiers in Environmental Science*. 13 hal.
- Cole, M., Lindeque, P., Halsband, C., dan Galloway, T. S. 2011. Microplastics as

- contaminants in the marine environment: a review. *Marine Pollution Bulletin*, **62**(12): 2588–2597.
- Cordova, M. R., Purbonegoro, T., Puspitasari, R., Subandi, R., Kaisupy, M. T., Wibowo, S. P. A., Nurjain, Suparmo, dan Sapulete, S. 2021. Preliminary study of the effect of tourism activities on litter pollution: a case study on padar island, komodo national park, indonesia. *Journal of Ecological Engineering*, **22**(8): 131–139.
- Cordova, M. R., Purwiyanto, A. I. S., dan Suteja, Y. 2021. Microplastic in the deep-sea sediment of Southwestern Sumatran waters. *Marine Pollution Bulletin*, **166**: 112195.
- Cordova, M. R., Riani, E., dan Shiimoto, A. 2019. Abundance and characteristics of microplastics in the northern coastal waters of Surabaya, Indonesia. *Marine Pollution Bulletin*, **142**: 183–188.
- Cordova, M. R., Ulumuddin, Y. I., Purbonegoro, T., dan Shiimoto, A. 2023. Characteristics dan distribution of microplastics in the coastal mangrove sediments of Indonesia. *Marine Pollution Bulletin*, **187**: 114556.
- Deng, H., He, J., Feng, D., Zhao, Y., Sun, W., Yu, H., dan Ge, C. 2021. Microplastics pollution in mangrove ecosystems: a critical review of current knowledge and future directions. In *Science of the Total Environment*. **753**: 1-16.
- Digka, N., Tsangaris, C., Torre, M., Anastasopoulou, A., dan Zeri, C. 2018. Microplastics in mussels and fish from the Northern Ionian Sea. *Marine Pollution Bulletin*, **135**: 30–40.
- Dilak, H. I., Missa, R., dan Eryah, H. P. 2021. Kelimpahan dan keanekaragaman makrobenthos sebagai bioindikator pencemaran lingkungan laut dangkal perairan tablolong kupang barat. *Marine and Fisheries Science Technology Journal*, **2**: 107–119.
- Dobaradaran, S., Schmidt, T. C., Nabipour, I., Khajeahmadi, N., Tajbakhsh, S., Saeedi, R., dan Keshtkar, M. 2020. Characterization of plastic debris in surface waters of the Persian Gulf. *Marine Pollution Bulletin*, **154**: 111403.
- Fasdarsyah. 2016. Analisis karakteristik sedimen dasar sungai terhadap parameter kedalaman. *Teras Jurnal*, **6**(2): 91-100.
- Galloway, T. S., Cole, M., dan Lewis, C. 2017. Interactions of microplastic debris throughout the marine ecosystem. *Nature Ecology and Evolution*, **1**(5): 0116.
- Geyer, R., Jambeck, J. R., dan Law, K. L. 2017. Production, use, and fate of all plastics ever made. *Science Advances*, **3**(7): e1700782.
- Gong, J., dan Pei, X. 2020. Research progress in sources, analytical methods, environmental effects, and control measures of microplastics. *Elsevier: Chemosphere*. **254**:1-10.
- Hambali, R., dan Yayuk A. 2016. Studi karakteristik sedimen dan laju sedimentasi sungai daeng – kabupaten bangka barat. *Jurnal Fropil*. **4**(2): 165-174.
- Harris, P. T., Tamelander, J., Lyons, Y., Neo, M. L., & Maes, T. (2021). Taking a mass-balance approach to assess marine plastics in the South China Sea. *Marine Pollution Bulletin*, **171**, 112708.
- Hidayati, N. V., Hotijah, S., Hudawi, M. N., Andriyono, S., Sanjayasari, D., Budi Hastuti, D. W., dan Hendrayana. 2023. Kontaminasi mikroplastik pada ikan kiper (*scatophagus argus*) dari laguna Segara Anakan, Cilacap. *Jurnal Rekayasa*, **16**(3): 1–11.

- Hiwari, H., Purba, N. P., Ihsan, Y. N., S Yuliadi, L. P., dan Mulyani, P. G. 2019. Kondisi sampah mikroplastik di permukaan air laut sekitar Kupang dan Rote, Provinsi Nusa Tenggara Timur. *Pros Sem Nas Masy Biodiv Indon*, **5**(2): 165-171.
- Horton, A. A., Walton, A., Spurgeon, D. J., Lahive, E., dan Svendsen, C. 2017. Microplastics in freshwater and terrestrial environments: Evaluating the current understanding to identify research priorities. *Science of the Total Environment*, **586**: 127-141.
- Huffer, T., Hofmann, T., dan Metzelder, F. 2019. Polyethylene microplastics influence the transport of organic contaminants in soil. *Science of the Total Environment*, **657**: 242-247.
- Ibrahim, Y. S., Tuan Anuar, S., Azmi, A. A., Wan Mohd Khalik, W. M. A., dan Lehata, S. 2023. Microplastics in personal care products: A systematic review of detection methods and human exposure risk. *Environmental Advances*, **12**: 100368.
- Innas, L. M., dan Rahmawati, F. 2021. Analisis kontaminasi mikroplastik pada sedimen dan kerang di Pantai Utara Jawa. *Jurnal Ilmu dan Teknologi Kelautan Tropis*, **13**(2): 145-156.
- Jambeck, J. R., Geyer, R., Wilcox, C., Siegler, T. R., Perryman, M., Andrady, A., dan Law, K. L. 2015. Plastic waste inputs from land into the ocean. *Science*, **347**(6223): 768-771.
- Jovanović, B. 2017. Ingestion of microplastics by fish and its potential consequences from a physical perspective. *Integrated Environmental Assessment and Management*, **13**(3): 510-515.
- Law, K. L., dan Thompson, R. C. 2014. Microplastics in the seas. *Science*, **345**(6193): 144-145.
- Li, J., Zhang, K., dan Zhang, H. 2018. Adsorption of antibiotics on microplastics. *Environmental Pollution*, **237**: 460-467.
- Li, J., Zhang, Y., dan Wang, Y. 2020. Field study of the microplastic pollution in sea snails (*Ellobium chinense*) from mangrove forest and their relationships with microplastics in water/sediment located on the north of Beibu Gulf. *Environmental Pollution*, **263**: 1-8.
- Li, W., Luo, Y., dan Pan, X. 2019. Microplastics in freshwater systems: A review. *Water Research*, **173**: 115541.
- Luo, Y. Y., Not, C., dan Cannicci, S. 2021. Mangroves as unique but understudied traps for anthropogenic marine debris: a review of present information and the way forward. *In Environmental Pollution* **271**: 1-12.
- Mahmuda, R., Aritonang, D., dan Harefa, M. S. 2023. Mengatasi dalam rehabilitasi di kawasan mangrove di Paluh Merbau, Tanjung Rejo, Kabupaten Deli Serdang. *Jurnal Ilmiah Multidisiplin Indonesia*, **2**: 553-565.
- Martin, C., Almahasheer, H., dan Duarte, C. M. 2019. Mangrove forests as traps for marine litter. *Environmental Pollution*, **247**: 499-508.
- Masdiana, Gusty, S., Asmeati, Rachman, R. M., dan Dendo, E. A. R. 2023. Revolusi plastik dan lingkungan. Tohar Media, Makasar. 132 hal.
- Mekarisce, A., A. 2020. Teknik pemeriksaan keabsahan data pada penelitian kualitatif di bidang kesehatan masyarakat. *Jurnal Ilmiah Kesehatan Masyarakat*. **12**(3): 145-151.
- Miller, M. E., Motti, C. A., Hamann, M., dan Kroon, F. J. 2023. Assessment of

- microplastic bioconcentration, bioaccumulation and biomagnification in a simple coral reef food web, *Elsevier: Science of the Total Environment*. **858**: 1-12.
- Morton, B. 1976. The biology and functional morphology of the Southeast Asian mangrove bivalve, *Polymesoda (Geloina) erosa* (Solander, 1786) (*Bivalvia: Corbiculidae*). *Journal of Zoology*, **5**(4): 482-500.
- Morton, B. 1988. The population structure and age of *Polymesoda (Geloina) erosa* (*Bivalvia: Corbiculacea*) from Hongkong mangrove. *Journal of Asian Marine Biology*, **5**: 107-113.
- Naibaho, A. A., Harefa, M. S., Nainggolan, R. S., dan Alfiaturahmah, V. L. 2022. Investigasi pemanfaatan hutan mangrove dan dampaknya terhadap daerah pesisir di pantai mangrove Paluh Getah, Tanjung Rejo. *J-CoSE: Journal of Community Service & Empowerment*, **1**(1): 22-33.
- Nainggolan, D. H., Agus, I., dan Suryono, C. A. 2022. Mikroplastik yang ditemukan di Perairan Karangjahe, Rembang, Jawa Tengah. *Journal of Marine Research*, **11**(3): 374-382.
- Nor, N. H. M., dan Obbard, J. P. 2014. Microplastics in Singapore's coastal mangrove ecosystems. *Marine Pollution Bulletin*, **79**(1-2): 278-283.
- Nybakken, J. W. 1992. Biologi laut: Suatu pendekatan ekologis (Edisi Bahasa Indonesia). (M. Eidman, Koesoebiono, D. G. Bengen, M. Hutomo, dan S. Sukardjo, Penerj.). PT Gramedia Pustaka Utama. 230 hlm
- Pangestu, Hendar, dan Haki, Helmi. 2013. Analisis angkutan sedimen total pada Sungai Dawas Kabupaten Musi Banyuasin. *Jurnal Teknik Sipil dan Lingkungan*. **1**(1): 103-109.
- Phuong, N. N., Poirier, L., Pham, Q. T., Lagarde, F., dan Zalouk-Vergnoux, A. 2018. Factors influencing the microplastic contamination of bivalves from the French Atlantic coast: Location, season, or mode of life. *Marine Pollution Bulletin*, **129**(1): 664-674.
- Pourang, N., Richardson, C. A., dan Mortazavi, M. S. 2010. Heavy metal concentrations in the soft tissues of swan mussel (*Anodonta cygnea*) and surficial sediments from Anzali wetland, Iran. *Environ Monit Assess*. **163**:195-213.
- Prasetyo, T., Putri, V. A., Lugyn, Z. D., dan Kurniawati, A. 2023. Pemetaan kesehatan mangrove. Penerbit NEM, Pekalongan. 88 hal.
- Prata, J. C., Costa, J. P., Lopes, I., Duarte, A. C., dan Rocha-Santos, T. 2020. Environmental exposure to microplastics: An overview on possible human health effects. *Science of the Total Environment*, **702**: 134455.
- Purnobasuki, H. 2024. Mangrove lestari bumi berseri. Airlangga university Press. Surabaya. 36 hal.
- Raafi, M. 2022. Analisis Kelimpahan Mikroplastik Pada Sedimen Di Daerah Aliran Sungai Barito, Kabupaten Banjarmasin, Provinsi Kalimantan Selatan. *Environmental Pollution Journal*. **2**(3): 452-458.
- Rellán, G. A., Ares, V. D., Brea, V. C., López, A. F., dan Bugallo, P. M. 2023. Sources, sinks and transformations of plastics in our oceans: Review, management strategies and modelling. *Science of The Total Environment*, **854**: 1-15.
- Rillig, M. C. 2012. Microplastic in terrestrial ecosystems and the soil. *Environmental Science dan Technology*, **46**(12): 6453-6454.

- Rizal, S., dan Jailani. 2022. Analisis kelimpahan plankton dan pertumbuhan kerang kepah *Geloina expansa* yang dipelihara pada Tambak di Delta Mahakam. *Jurnal Ilmu PerikananTropis Nusantara*. **1**: 160–167.
- Rochman, C. M., Browne, M. A., Halpern, B. S., Hentschel, B. T., dan Kaye, S. 2015. Anthropogenic debris in seafood: Plastic debris and its potential impacts on human health. *Nature Sustainability*, **1**(3): 191-200.
- Rochman, C. M., Hoh, E., Kurobe, T., dan Teh, S. J. 2013. Ingested plastic transfers hazardous chemicals to fish and induces hepatic stress. *Scientific Reports*, **3**: 3263.
- Rochman, C. M., Tahir, A., Williams, S. L., Baxa, D. V., Lam, R., Miller, J. T., dan Teh, S. J. 2015. Anthropogenic debris in seafood: Plastic debris and fibers from textiles in fish and bivalves sold for human consumption. *Scientific Reports*, **5**: 14340.
- Ryan, P. G., Moore, C. J., Franeker, J. A., dan Moloney, C. L. 2009. Monitoring the abundance of plastic debris in the marine environment. *philosophical transactions of the royal society B: Biological Sciences*, **364**(1526): 1999-2012.
- Samantha, V., Samuel, J., dan Dharumadurai, D. 2023. Microplastics as vectors for antibiotic resistance genes in aquatic ecosystems. *Journal of Hazardous Materials*, **459**: 132087.
- Sandra, S. W., dan Radityaningrum, A. D. 2021. Kajian kelimpahan mikroplastik di biota perairan. *Jurnal Ilmu Lingkungan*, **19**(3): 638–648.
- Sangkham, S., Faikhaw, O., Munkong, N., Sakunkoo, P., Arunlertaree, C., Chavali, M., dan Tiwari, A. 2020. COVID-19 face masks: A new source of microplastic fibers in the environment. *Science of the Total Environment*, **742**: 143553.
- Satyaraj, E., dan Reynolds, A. 2022. Sustainable removal of microplastics from water using plant-based coagulants. *Chemosphere*, **307**(1): 135785.
- Schrank, I., dan Roy, H. 2019. Microplastic removal during conventional and advanced wastewater treatment. *Water Research X*, **5**: 100030.
- Seftianingrum, B., Hidayah, I., dan Atiqoh, Z. 2023. Identifikasi mikroplastik pada air, sedimen, dan ikan nila (*oreochromis niloticus*) di Sungai Porong, Kabupaten Sidoarjo, Jawa Timur. *Jurnal Ilmu dan Teknologi Kelautan Tropis*, **10**(1), 68–82.
- Sivrikaya, S., Aydın, M., dan Yilmaz, A. B. 2022. Microplastic contamination in commercial fish species from the Black Sea. *Marine Pollution Bulletin*, **177**: 113518.
- Stolte, A., Forster, S., Gunnar, G., dan Schubert, H. 2015. Microplastic concentrations in beach sediments along the German Baltic Coast. *Elsevier: Marine Pollution Bulletin*. **99**: 216-229.
- Suaniti, N. 2007. Kandungan gizi kerang dan pengaruh lingkungan terhadap kualitasnya. *Jurnal Ilmu dan Teknologi Perikanan*, **2**(1): 45-52.
- Sulaiman, M. 2023. Pemanfaatan hutan mangrove terhadap penanganan perubahan iklim di Pulau Wetar. *Jurnal Kelautan Dan Perikanan Terapan (JKPT)*. **1**: 67-71.
- Sulistiowati, Zamani, N. P., Bengen, D. G., Lim, C. L., and Cordova, M. R. 2023. Characteristic of microplastic on coral reef sediment and Sea Urchin (*Diadema sp.*) in Tidung Island, Jakarta Bay, Indonesia. *Ilmu Kelautan: Indonesian Journal of Marine Sciences*, **28**(4): 289–300.

- Suriani, N., Risnita, dan Jailani, M. S. 2023. Konsep Populasi dan Sampling Serta Pemilihan Partisipan Ditinjau Dari Penelitian Ilmiah Pendidikan. *Jurnal Pendidikan Islam*, **1**(2), 24–36.
- Tan, H., Yue, T., Xu, Y., Zhao, J., dan Xing, B. 2019. Microplastics in human food chains: Food contamination and health risks. *Environmental Science & Technology*, **54**(1): 1–9.
- Tang, K. H. D., dan Hadibarata, T. 2018. Microplastics in the marine environment: Sources, distribution and effects. *Science China Earth Sciences*, **61**(8): 1078–1086.
- Thompson, R. C., Moore, C. J., vom Saal, F. S., dan Swan, S. H. 2009. Plastics, the environment and human health: Current consensus and future trends. *Philosophical Transactions of the Royal Society B*, **364**(1526): 2153–2166.
- Usman, K. O. 2014. Analisis sedimentasi pada muara sungai komering kota Palembang. *Jurnal Teknik Sipil dan Lingkungan*. **2**(2): 209-215.
- Van, C. L., Devriese, L., Galgani, F., Robbens, J., dan Janssen, C. R. 2015. Microplastics in sediments: A review of techniques, occurrence and effects. *Marine Environmental Research*, **111**: 5–17.
- Van, E. G.J. 1977. Aquatic pollutant and their potential ecological effects. in hutzingen, o., i.h. van lelyuccid and b.c.j. zoetemen, ed. aquatic pollution : transformation and biological effects, procceding of the 2nd int. symp. on aquatic pollutants. Amsterdam. Pergamon Press, New York. 1-12 hal.
- Veerasingam, S., Ranjani, M., Venkatachalapathy, R., Bagaev, A., Mukhanov, V., Litvinyuk, D., Mugilarasan, M., Gurumoorthi, K., Guganathan, L., Aboobacker, V. M., dan Vethamony, P. 2021. Contributions of fourier transform infrared spectroscopy in microplastic pollution research: a review. *Critical Reviews in Environmental Science and Technology*. **51**(22): 2681–2743.
- Wahdani, A., Rahmawati, F., dan Suryono, C. A. 2020. Konsentrasi mikroplastik pada kerang tahu (*meretrix meretrix*) di Perairan Maccini Baji, Makassar. *Jurnal Ilmu dan Teknologi Kelautan Tropis*, **12**(1): 45-52.
- Wang, W., Ndungu, A. W., Li, Z., dan Wang, J. 2019. Microplastics in surface waters of Dongting Lake and Hong Lake, China. *Science of the Total Environment*, **663**: 637–643.
- Wright, S. L., dan Kelly, F. J. 2017. Plastic and human health: A micro issue. *Environmental Science and Technology*, **51**(12): 6634–6647.
- Wright, S. L., Rowe, D., Thompson, R. C., dan Galloway, T. S. 2013. Microplastic ingestion decreases energy reserves in marine worms. *Current Biology*, **23**(23): R1031–R1033.
- Wright, S. L., Thompson, R. C., dan Galloway, T. S. 2013. The physical impacts of microplastics on marine organisms: A review. *Environmental Pollution*, **178**: 483-492.
- Xu, X. Y., Wong, C. Y., Tam, N. F. Y., Liu, H. M., dan Cheung, S. G. 2020. Barnacles as potential bioindicator of microplastic pollution in Hong Kong. *Marine Pollution Bulletin*, **154**: 1-8.
- Yin, L., Zhang, Y., Wang, N., Li, J., & Chen, Z. 2021. Microplastic Pollution in Mangrove Sediments: Sources, Fate, and Ecological Impacts. *Science of the Total Environment*, 791, 148341.
- Zebua, O., Asokhiwa, Z., Ratna, D. Z., Destriman L., Januari, D., dan Betzy, V., T.

2024. Krisis biodiversitas perairan: investigasi solusi berbasis komunitas untuk pemulihan ekosistem akuatik. *Manfish: Jurnal Ilmiah Perikanan Dan Peternakan*, **2**(2): 69–79.
- Zhang, K., Shi, H., Peng, J., Wang, Y., Xiong, X., Wu, C., dan Lam, P. K. S. 2020. Microplastics in freshwater sediment: A review on methods, occurrence, and sources. *Science of the Total Environment*, **754**: 141948.
- Zhao, S., Zhu, L., dan Li, D. 2018. Microplastic contamination in agricultural soil ecosystems. *Science of the Total Environment*, **645**: 1042–1056.
- Zhou, Q. C., Tu, C., Fu, Y., Li, H., Zhang, K., Xiong, X., Zhao, L., Li, J.J., Waniek, Y., Luo. 2019. Characteristics and distribution of microplastics in the coastal mangrove sediments of China, *Elsevier: Science of the Total Environment*. **703**: 1-30.
- Ziajahromi, S., Neale, P., Rintoul, L., dan Leusch, F.D.L. 2017. Wastewater treatment plants as a pathway for microplastics: Development of a new approach to sample wastewater-based microplastics. *Water Research*, **112**: 93–99.

