

DAFTAR PUSTAKA

- Anam, C., Firdausi, K. S., & Sirojudin, S. (2007). Analisis Gugus Fungsi pada Sampel Uji, Bensin dan Spiritus Menggunakan Metode Spektroskopi FTIR. *Berkala Fisika*, 10(1), 79-85.
- Andrade, A.L. & Neal, M.A. (2009). Applications and societal benefits of plastics. *Philosophical Transactions of the Royal Society B*, 364, 1977–1984.
- Baldwin, A.K., Corsi, S.R., Mason, S.A., (2016). Plastic debris in 29 Great Lakes tributaries: relations to watershed attributes and hydrology. *Environ. Sci. Technol.* 50, 10377–10385.
- Bouhroum, R., Boulkamh, A., Asia, L., Lebarillier, S., Ter Halle, A., Syakti, A. D., Wong-Wah-Chung, P. (2019). Concentrations and fingerprints of PAHs and PCBs adsorbed onto marine plastic debris from the Indonesian Cilacap coast and the North Atlantic gyre. *Regional Studies in Marine Science*, 29, 100611.
- Brandao, M.L., Braga, K.M., Luque, J.L., (2011). Marine debris ingestion by Magellanic penguins, *Spheniscus magellanicus* (Aves: Sphenisciformes), from the Brazilian coastal zone. *Mar. Pollut. Bull.* 62, 2246–2249.
- Brate, I.L., Eidsvoll, D.P., Steindal, C.C., Thomas, K.V. (2016). Plastic Ingestion by Atlantic COD (*Gadus morhua*) from the Norwegian Coast. *Mar. Pollut. Bull.* 112, P. 105-110.
- Browne, M.A., Crump, P., Niven, S.J., Teuten, E., Tonkin, A., Galloway, T., Thompson, R., (2011). Accumulation of microplastic on shorelines worldwide: sources and sinks. *Environ. Sci. Technol.* 45, 9175–9179.
- Chatwal, G. (1985). *Spectroscopy Atomic and Molecule*. Himalaya Publishing House : Bombay.
- Cocca, M. (2018). *Proceedings of the International Conference on Microplastic pollution in the Mediterranean Sea*. Italy: Springer.
- Dewi, I. S., Budiarsa, A. A., & Ritonga, I. R. (2015). Distribusi mikroplastik pada sedimen di Muara Badak, Kabupaten Kutai Kartanegara. *DEPIK Jurnal Ilmu-Ilmu Perairan, Pesisir dan Perikanan*, 4(3).
- Eerkes-Medrano, D., Thompson, R.C., Aldridge, D.C., (2015). Microplastics in freshwater systems: a review of the emerging threats, identification of knowledge gaps and prioritisation of research needs. *Water Res.* 15, 63-82.
- Eriksen, M., Mason, S., Wilson, S., Box, C.Zellers, A., Edwards, W., Farley, H., Amato, S. (2013). Microplastic pollution in the surface waters of the Laurentian Great Lakes. *Mar. Pollut. Bull.* 77, 177-182.
- Frias, J. P. G. L., Sobral, P., & Ferreira, A. M. (2010). Organic pollutants in microplastics from two beaches of the Portuguese coast. *Marine pollution bulletin*, 60(11), 1988-1992.
- Fossi, M. C., Romeo, T., Baini, M., Panti, C., Marsili, L., Campani, T., & Taddei, S. (2017). Plastic debris occurrence, convergence areas and fin whales

- feeding ground in the Mediterranean marine protected area Pelagos sanctuary: A modeling approach. *Frontiers in Marine Science*. 4, 167.
- Google Maps. (2020). Peta Lokasi Muaro Batang Arau. Diperoleh 20 Desember 2020 dari maps.google.com.
- Gregory, M.R., (1991). The hazards of persistent marine pollution: drift plastics and conservation islands. *J. R. Soc. New Zeal.* 21, 83–100.
- Hansen, E., Nilsson, N. H., Lithner, D., & Lassen, C. (2013). Hazardous substances in plastic materials. *COWI, Danish Technological Institute*. 148.
- Hamuna, B., Tanjung, R. H. R., & Suwito, M. H. Allianto. (2018). Kajian Kualitas Air Laut dan Indeks Pencemaran Berdasarkan Parameter Fisika-Kimia Di Perairan Distrik Depapre, Jayapura. *Jurnal Ilmu Lingkungan*. 16(1), 35-43.
- Hidalgo-Ruz, V., L. Gutow, R.C. Thompson, M. Thiel. 2012. Microplastics in the marine environment: a review of the methods used for identification and quantification. *Environmental Science and Technology*, 46:3060- 3075.
- Indonesia, P. R. (1999). *Peraturan Pemerintah Republik Indonesia nomor 19 tahun 1999 tentang pengendalian pencemaran dan/atau perusakan laut*. Badan Pengendalian Dampak Lingkungan.
- Indonesia, R. (2004). *Keputusan Menteri Negara Lingkungan Hidup Nomor 51 tahun 2004 tentang Baku Mutu Air Laut*. Jakarta: Menteri Negara Lingkungan Hidup.
- Kilponen, Juho. (2016). *Microplastics and Harmful Substances in Urban Runoffs and Landfill Leachates*. Finlandia: Lathi University of Applied Sciences
- Kershaw, P. (2015). Sources, fate and effects of microplastics in the marine environment: a global assessment. *International Maritime Organization*.
- Laist, D.W., (2011). Impacts of marine debris: entanglement of marine life in marine debris including a comprehensive list of species with entanglement and ingestion records. In: Coe, J.M., Rogers, D.B. (Eds.), *Marine Debris: Sources, Impacts and Solutions*. Springer-Verlag, New York. pp. 99–139.
- Li, Y., Lu, Z., Zheng, H., Wang, J., & Chen, C. (2020). Microplastics in surface water and sediments of Chongming Island in the Yangtze Estuary, China. *Environmental Sciences Europe*, 32(1), 1-12.
- Lusher, A. L., Peter H & Jeremy M. (2017). Microplastics in Fisheries and Aquaculture. *Roma: Food and Agriculture Organization of The United Nations*.
- Manalu, A. A. (2017). *Kelimpahan Mikroplastik di Teluk Jakarta* (Doctoral dissertation, Tesis. Sekolah Pascasarjana). Bogor : IPB
- Marcott, C. (1986). *Material Characterization Hand Book vol. 10: Infrared Spektroskopy*. ASM International : Amerika.
- Marsden, P., Koelmans, A. A., Bourdon-Lacombe, J., Gouin, T., D'Anglada, L., & De France, J. (2019). *Microplastics in drinking water*. World Health Organization.

- Martin, J., Lusher, A., Richard C. Thompson, R. C., Morley, A. (2017). The Deposition and Accumulation of Microplastics in Marine Sediments and Bottom Water from the Irish Continental Shelf. *Scientific Reports*, 7(1), 1-9.
- Masura, J., Baker, J. E., Foster, G. D., Arthur, C., & Herring, C. (2015). Laboratory Methods for the Analysis of Microplastics in the Marine Environment: Recommendations for quantifying synthetic particles in waters and sediments. *Silver Spring: NOAA Marine Debris Program National Oceanic and Atmospheric Administration U.S. Department of Commerce Technical Memorandum NOS-OR&R-48 July 2015 NOAA*.
- Mendenhall, E. (2018). Oceans of plastic: A research agenda to propel policy development. *Marine Policy*. 96(May), 291–298.
- Miller, R. Z., Watts, A. J. R., Winslow, B. O., Galloway, T. S., & Barrows, A. P. W. (2017). Mountains to the sea: River study of plastic and non-plastic microfiber pollution in the northeast USA. *Marine Pollution Bulletin*. 124(1), 245–251.
- Moos, C.J., Lattin, G.L., Zellers, A.F., (2012). Quantity and type of plastic debris flowing from two urban rivers to coastal waters and beaches of Southern California. *J. Integr. Coast. Zone Manag.* 11 (1), 65-73.
- Nor Mohamed, N. H., & Obbard, J. P. (2014). Microplastics in Singapore's coastal mangrove ecosystems. *Marine Pollution Bulletin*. 79(1–2), 278–283.
- Purwaningrum, P. (2016). Upaya mengurangi timbulan sampah plastik di lingkungan. *Indonesian Journal of Urban and Environmental Technology*, 8(2), 141-147.
- Pritchard, D.W. 1967. What is an estuary : Physical view point. In Estuaries (G.H. Lauff, es.). *Amer. Assoc. Adv. Sci. Publ.* No. 83. Washington D.C. p:3-5
- Riena, N. N., Putri, W. A. E., & Agustriani, F. (2012). Analisis Kualitas Perairan Muara Sungai Way Belau Bandar Lampung. *Maspuri Journal: Marine Science Research*. 4(1), 116-121.
- Rios, L.M., Moore, C. & Jones, P.R, 2007. Persistent organic pollutants carried by synthetic polymers in the ocean environment. *Marine Pollution Bulletin*, 54, 1230–1237
- Rochman, C.M., A. Tahir., S.L. Williams, D. V. Baxa, R. Lam, J. T. Miller, Foo Ching Teh, S. Werorilangi, S. J. Teh. (2015). Anthropogenic debris 82in seafood: Plastic debris and fibers from textiles in fish and bivalves sold for human consumption. *Scientific reports*. 5, 14340. Nature.doi:10.1038/srep14340.
- Rositasari, R., & Rahayu, S. K. (1994). Sifat-sifat estuari dan pengelolaannya. *Oseana*. 19(3), 21-23.
- Rusdiman. (2010). *Kimia Dasar Analitik*. Makassar: AIGI.
- Sadri, S. S., & Thompson, R. C. (2014). On the quantity and composition of floating plastic debris entering and leaving the Tamar Estuary, Southwest England. *Marine pollution bulletin*, 81(1), 55-60.

- Solomon, O. O., & Palanisami, T. (2016). Microplastics in the marine environment: current status, assessment methodologies, impacts and solutions. *Journal of Pollution Effects & Control*, 1-13.
- Syakti, A. D., Bouhroum, R., Hidayati, N. V., Koenawan, C. J., Boulkamh, A., Sulistyo, I., Stephanie Lebarillier, Syafsir Akhlus, Pierre Doumenq & Wong-Wah-Chung, P. (2017). Beach macro-litter monitoring and floating microplastic in a coastal area of Indonesia. *Marine Pollution Bulletin*, 122(1-2), 217-225.
- Tagg, A. S., Sapp, M., Harrison, J. P., & Ojeda, J. J. (2015). Identification and Quantification of Microplastics in Wastewater Using Focal Plane Array-Based Reflectance Micro-FT-IR Imaging. *Analytical Chemistry*. 87, 6032-6040.
- Victoria, A. V. (2017). Kontaminasi Mikroplastik di Perairan Tawar. Bandung. *Teknik Kimia, Institut Teknologi Bandung*.
- Yan, M., Nie, H., Xu, K., He, Y., Hu, Y., Huang, Y., & Wang, J. (2019). Microplastic abundance, distribution and composition in the Pearl River along Guangzhou city and Pearl River estuary, China. *Chemosphere*, 217, 879-886.
- Yu, X., Peng, J., Wang, J., Wang, K., & Bao, S. (2016). Occurrence of microplastics in the beach sand of the Chinese inner sea: the Bohai Sea. *Environmental pollution*, 214, 722-730.
- Zhang W, Zhang S, Wang J, Wang Y, Mu J, Wang P, Lin X, Ma D. (2017). Microplastic pollution in the surface waters of the Bohai Sea, China. *Environ Pollut*. 231: 541-548.
- Zhao, S., Wang, T., Zhu, L., Xu, P., Wang, X., Gao, L., & Li, D. (2019). Analysis of suspended microplastics in the Changjiang Estuary: Implications for riverine plastic load to the ocean. *Water research*, 161, 560-569.
- Zhou, P., Huang, C., Fang, H., Cai, W., Li, D., Li, X., & Yu, H. (2011). The abundance, composition and sources of marine debris in coastal seawaters or beaches around the northern South China Sea (China). *Marine pollution bulletin*, 62(9), 1998-2007.