

## DAFTAR PUSTAKA

- Arthur, C., Baker, J., & Bamford, H. (2009). *Proceedings of the International Research Workshop on the Occurrence, Effects, and Fate of Microplastic Marine Debris*. NOAA Marine Debris Program. [www.MarineDebris.noaa.gov](http://www.MarineDebris.noaa.gov)
- Asdak, C. (2010). *Hidrologi dan Pengelolaan Daerah Aliran Sungai*. Gadjah Mada University Press.
- Ayuningtyas, W. C., Yona, D., Julianda, S. H., & Irnawati, F. (2019). KELIMPAHAN MIKROPLASTIK PADA PERAIRAN DI BANYUURIP, GRESIK, JAWA TIMUR. *Journal of Fisheries and Marine*, 3.
- Azizah, P., Ridlo, A., & Suryono, C. A. (2020). Mikroplastik pada Sedimen di Pantai Kartini Kabupaten Jepara Jawa Tengah. *Journal of Marine Research*, 9(3), 326–332. <https://doi.org/10.14710/jmr.v9i3.28197>
- Badan Pusat Statistik Kota Pariaman. (2016). *Kota Pariaman dalam Angka 2016*.
- Badan Pusat Statistik Kota Pariaman. (2022). *Jumlah Wisatawan Tahun 2019-2021*.
- Bara, M., Malino, allo, & Pahlanop Lapanporo, B. (2013). *Analisis Data Spektrum Spektroskopi FT-IR untuk Menentukan Tingkat Oksidasi Polianilin*. I(2), 92–96.
- Barnes, D. K. A., Galgani, F., Thompson, R. C., & Barlaz, M. (2009). Accumulation and fragmentation of plastic debris in global environments. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 364(1526), 1985–1998. <https://doi.org/10.1098/rstb.2008.0205>
- Basuki, A. T. & Y. I. (2014). *ELECTRONIC DATA PROCESSING (SPSS 15 dan EVIEWS 7)*.
- Besley, A., Vijver, M. G., Behrens, P., & Bosker, T. (2017). A standardized method for sampling and extraction methods for quantifying microplastics in beach sand. *Marine Pollution Bulletin*, 114(1), 77–83. <https://doi.org/10.1016/j.marpolbul.2016.08.055>
- Bissen, R., & Chawchai, S. (2020). Microplastics on beaches along the eastern Gulf of Thailand – A preliminary study. *Marine Pollution Bulletin*, 157. <https://doi.org/10.1016/j.marpolbul.2020.111345>
- Brach, L., Deixonne, P., Bernard, M. F., Durand, E., Desjean, M. C., Perez, E., van Sebille, E., & ter Halle, A. (2018). Anticyclonic eddies increase accumulation of microplastic in the North Atlantic subtropical gyre. *Marine Pollution Bulletin*, 126, 191–196. <https://doi.org/10.1016/j.marpolbul.2017.10.077>

- 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. *Environmental Science and Technology*, 45(21), 9175–9179. <https://doi.org/10.1021/es201811s>
- Celik, Yaman, & Kara. (2018). Environmentally Degradable Plastics. *Journal of Materials Processing Technology*, 1, 1–8.
- Chen, M. C., & Chen, T. H. (2020). Spatial and seasonal distribution of microplastics on sandy beaches along the coast of the Hengchun Peninsula, Taiwan. *Marine Pollution Bulletin*, 151. <https://doi.org/10.1016/j.marpolbul.2019.110861>
- Chouchene, K., Prata, J. C., da Costa, J., Duarte, A. C., Rocha-Santos, T., & Ksibi, M. (2021). Microplastics on Barra beach sediments in Aveiro, Portugal. *Marine Pollution Bulletin*, 167. <https://doi.org/10.1016/j.marpolbul.2021.112264>
- Cole, M., Lindeque, P., Halsband, C., & Galloway, T. S. (2011). Microplastics as contaminants in the marine environment: A review. In *Marine Pollution Bulletin* (Vol. 62, Issue 12, pp. 2588–2597). <https://doi.org/10.1016/j.marpolbul.2011.09.025>
- Crawford, C. B., & Quinn, B. (2017). The emergence of plastics. In *Microplastic Pollutants* (pp. 1–17). Elsevier. <https://doi.org/10.1016/b978-0-12-809406-8.00001-3>
- Deng, J., Guo, P., Zhang, X., Su, H., Zhang, Y., Wu, Y., & Li, Y. (2020). Microplastics and accumulated heavy metals in restored mangrove wetland surface sediments at Jinjiang Estuary (Fujian, China). *Marine Pollution Bulletin*, 159. <https://doi.org/10.1016/j.marpolbul.2020.111482>
- Dowarah, K., Patchaiyappan, A., Thirunavukkarasu, C., Jayakumar, S., & Devipriya, S. P. (2020). Quantification of microplastics using Nile Red in two bivalve species Perna viridis and Meretrix meretrix from three estuaries in Pondicherry, India and microplastic uptake by local communities through bivalve diet. *Marine Pollution Bulletin*, 153. <https://doi.org/10.1016/j.marpolbul.2020.110982>
- Duis, K., & Coors, A. (2016). Microplastics in the aquatic and terrestrial environment: sources (with a specific focus on personal care products), fate and effects. In *Environmental Sciences Europe* (Vol. 28, Issue 1, pp. 1–25). Springer Verlag. <https://doi.org/10.1186/s12302-015-0069-y>
- Eriksen, M., Lebreton, L. C. M., Carson, H. S., Thiel, M., Moore, C. J., Borerro, J. C., Galgani, F., Ryan, P. G., & Reisser, J. (2014). Plastic Pollution in the World's Oceans: More than 5 Trillion Plastic Pieces Weighing over 250,000 Tons Afloat at Sea. *PLoS ONE*, 9(12). <https://doi.org/10.1371/journal.pone.0111913>

- Fendall, L. S., & Sewell, M. A. (2009). Contributing to marine pollution by washing your face: Microplastics in facial cleansers. *Marine Pollution Bulletin*, 58(8), 1225–1228. <https://doi.org/10.1016/j.marpolbul.2009.04.025>
- Feng, Z., Zhang, T., Li, Y., He, X., Wang, R., Xu, J., & Gao, G. (2019). The accumulation of microplastics in fish from an important fish farm and mariculture area, Haizhou Bay, China. *Science of the Total Environment*, 696. <https://doi.org/10.1016/j.scitotenv.2019.133948>
- Hanieve, F. (2021). *ANALISIS KANDUNGAN MIKROPLASTIK PADA AIR DAN SEDIMENT SUNGAI BATANG KURANJI KOTA PADANG SUMATERA BARAT TUGAS AKHIR*. Universitas Andalas.
- Harinaldi. (2005). *Prinsip Statistik U/teknik & Sains*. Erlangga.
- Harlan, J. (2018). *Analisa Regresi Linear*. Gunadarma.
- Hermabessiere, L., Paul-Pont, I., Cassone, A. L., Himber, C., Receveur, J., Jezequel, R., El Rakwe, M., Rinnert, E., Rivière, G., Lambert, C., Huvet, A., Dehaut, A., Duflos, G., & Soudant, P. (2019). Microplastic contamination and pollutant levels in mussels and cockles collected along the channel coasts. *Environmental Pollution*, 250, 807–819. <https://doi.org/10.1016/j.envpol.2019.04.051>
- Hidalgo-Ruz, V., Gutow, L., Thompson, R. C., & Thiel, M. (2012). Microplastics in the marine environment: A review of the methods used for identification and quantification. *Environmental Science and Technology*, 46(6), 3060–3075. <https://doi.org/10.1021/es2031505>
- Holmes, L. A., Turner, A., & Thompson, R. C. (2012). Adsorption of trace metals to plastic resin pellets in the marine environment. *Environmental Pollution*, 160(1), 42–48. <https://doi.org/10.1016/j.envpol.2011.08.052>
- Islami, M. D., Elizal, & Siregar, Y. I. (2020). Distribution of Microplastic at Sediments in the Coast of Bungus Bay Padang West Sumatera Province. *Journal of Coastal and Ocean Sciences E-Issn*, 1(1), 2745–4355.
- Jambeck, J. R., Geyer, R., Wilcox, C., Siegler, T. R., Perryman, M., Andrady, A., Narayan, R., & Law, K. L. (2015). Plastic waste inputs from land into the ocean. *Science*, 347(6223), 768–771. <https://doi.org/10.1126/science.1260352>
- Jamika, F. (2021). *ANALISIS KANDUNGAN MIKROPLASTIK DI KAWASAN PANTAI AIR MANIS KOTA PADANG*. Universitas Andalas.
- Jones, T. L., Dick, J. J., Lane, T. P., Cunningham, E. M., & Kiriakoulakis, K. (2023). Occurrence and sources of microplastics on Arctic beaches: Svalbard. *Marine*

*Pollution Bulletin*, 196(115586), 1–11.  
<https://doi.org/10.1016/j.marpolbul.2023.115586>

Kapo, F. A. T. L. N. P. C. A. (2020). Jenis dan Kelimpahan Mikroplastik pada Kolom Permukaan Air di Perairan Teluk Kupang. *Jurnal Bahari Papadak*, 1(1), 10–21.

Li, J., Zhang, H., Zhang, K., Yang, R., Li, R., & Li, Y. (2018). Characterization, source, and retention of microplastic in sandy beaches and mangrove wetlands of the Qinzhou Bay, China. *Marine Pollution Bulletin*, 136, 401–406.  
<https://doi.org/10.1016/j.marpolbul.2018.09.025>

Lusher, A. L., Tirelli, V., O'Connor, I., & Officer, R. (2015a). Microplastics in Arctic polar waters: The first reported values of particles in surface and sub-surface samples. *Scientific Reports*, 5. <https://doi.org/10.1038/srep14947>

Lusher, A. L., Tirelli, V., O'Connor, I., & Officer, R. (2015b). Microplastics in Arctic polar waters: The first reported values of particles in surface and sub-surface samples. *Scientific Reports*, 5. <https://doi.org/10.1038/srep14947>

Masura, J., Baker, J., Foster, G., & Arthur, C. (2015). *Laboratory Methods for the Analysis of Microplastics in the Marine Environment: Recommendations for quantifying synthetic particles in waters and sediments*.

Mauludy, M. S., Yunanto, A., & Yona, D. (2019). Microplastic Abundances in the Sediment of Coastal Beaches in Badung, Bali. *Jurnal Perikanan Universitas Gadjah Mada*, 21(2), 73. <https://doi.org/10.22146/jfs.45871>

Mazlan, N., Shukhairi, S. S., Muhammad Husin, M. J., Shalom, J., Saud, S. N., Abdullah Sani, M. S., Ong, M. C., Naidu Chandra Mohan, N. K., & Sopian, N. A. (2023). Evaluation of microplastics isolated from sea cucumber Acaudina molpadioides in Pulau Langkawi, Malaysia. *Heliyon*, 9(6).  
<https://doi.org/10.1016/j.heliyon.2023.e16822>

Mira. (2018). *STUDI TIMBULAN, KOMPOSISI, POTENSI DAUR ULANG, DAN KARAKTERISTIK SAMPAH KAWASAN WISATA KOTA PARIAMAN*. Universitas Andalas.

Mitrano, D. M., & Wohlleben, W. (2020). Microplastic regulation should be more precise to incentivize both innovation and environmental safety. *Nature Communications*, 11(1). <https://doi.org/10.1038/s41467-020-19069-1>

Mohamed Nor, N. H., & Obbard, J. P. (2014). Microplastics in Singapore's coastal mangrove ecosystems. *Marine Pollution Bulletin*, 79(1–2), 278–283.  
<https://doi.org/10.1016/j.marpolbul.2013.11.025>

- Moore, C. J. (2008). Synthetic polymers in the marine environment: A rapidly increasing, long-term threat. *Environmental Research*, 108(2), 131–139. <https://doi.org/10.1016/j.envres.2008.07.025>
- Munson, B. R., Young, D. F., & Okiishi, T. H. (2019). *MEKANIKA FLUIDA* (H. W. Hardani, Ed.; 4th ed.). Erlangga.
- Nasrum, A. (2018). *UJI NORMALITAS DATA UNTUK PENELITIAN*. Jayapangus Press. <http://jayapanguspress.org>
- Nasution, S. (2021). *ANALISIS KANDUNGAN MIKROPLASTIK DI PANTAI PADANG TUGAS AKHIR*. Universitas Andalas.
- Nel, H. A., & Froneman, P. W. (2015). A quantitative analysis of microplastic pollution along the south-eastern coastline of South Africa. *Marine Pollution Bulletin*, 101(1), 274–279. <https://doi.org/10.1016/j.marpolbul.2015.09.043>
- Nugroho, S. (2008). *Statistika Nonparametrika* (J. Rizal, Ed.; I). UNIB Press.
- Peng, G., Zhu, B., Yang, D., Su, L., Shi, H., & Li, D. (2017). Microplastics in sediments of the Changjiang Estuary, China. *Environmental Pollution*, 225, 283–290. <https://doi.org/10.1016/j.envpol.2016.12.064>
- Permatasari, D. R., & Radityaningrum, A. D. (2020). Kajian Keberadaan Mikroplastik Di Wilayah Perairan: Review. *Seminar Nasional Sains Dan Teknologi Terapan VIII*, 499–506.
- Piñon-Colin, T. de J., Rodriguez-Jimenez, R., Pastrana-Corral, M. A., Rogel-Hernandez, E., & Wakida, F. T. (2018). Microplastics on sandy beaches of the Baja California Peninsula, Mexico. *Marine Pollution Bulletin*, 131, 63–71. <https://doi.org/10.1016/j.marpolbul.2018.03.055>
- Pozdnyakov, S. R., Ivanova, E. V., Guzeva, A. V., Shalunova, E. P., Martinson, K. D., & Tikhonova, D. A. (2020). Studying the Concentration of Microplastic Particles in Water, Bottom Sediments and Subsoils in the Coastal Area of the Neva Bay, the Gulf of Finland. *Water Resources*, 47(4), 599–607. <https://doi.org/10.1134/S0097807820040132>
- Pratisto, A. (2005). *Cara mudah mengatasi masalah statistik dan rancangan percobaan dengan SPSS*. Elex Media Komputindo.
- Rasta, M., Sattari, M., Taleshi, M. S., & Namin, J. I. (2020). Identification and distribution of microplastics in the sediments and surface waters of Anzali Wetland in the Southwest Caspian Sea, Northern Iran. *Marine Pollution Bulletin*, 160. <https://doi.org/10.1016/j.marpolbul.2020.111541>

- Retama, I., Jonathan, M. P., Shruti, V. C., Velumani, S., Sarkar, S. K., Roy, P. D., & Rodríguez-Espinosa, P. F. (2016). Microplastics in tourist beaches of Huatulco Bay, Pacific coast of southern Mexico. *Marine Pollution Bulletin*, 113(1–2), 530–535. <https://doi.org/10.1016/j.marpolbul.2016.08.053>
- Ridlo, A., Ario, R., Al Ayyub, A. M., Supriyantini, E., & Sedjati, S. (2020). Mikroplastik pada Kedalaman Sedimen yang Berbeda di Pantai Ayah Kebumen Jawa Tengah. *Jurnal Kelautan Tropis*, 23(3), 325–332. <https://doi.org/10.14710/jkt.v23i3.7424>
- Rochman, C. M. (2015). *Ecological Society of America*.
- Rosalina, L., Oktarina, R. Mb., Rahmiati, Mp., & Saputra, I. (2023). *BUKU AJAR STATISTIKA* (Eliza, Ed.; I). CV. MUHARIKA RUMAH ILMIAH. [www.muharikarumahilmiah.com](http://www.muharikarumahilmiah.com)
- Rummel, C. D., Jahnke, A., Gorokhova, E., Kühnel, D., & Schmitt-Jansen, M. (2017). Impacts of biofilm formation on the fate and potential effects of microplastic in the aquatic environment. In *Environmental Science and Technology Letters* (Vol. 4, Issue 7, pp. 258–267). American Chemical Society. <https://doi.org/10.1021/acs.estlett.7b00164>
- Sahwan, F. L., Heru Martono, D., Wahyono, S., Lies Wisoyodarmo, dan A., di Pusat Pengkajian dan Penerapan Teknologi Lingkungan, P., pada Pusat Pengkajian dan Penerapan Teknologi Material, P., & Pengkajian dan Penerapan Teknologi Lingkungan, B. (n.d.). *SISTEM PENGELOLAAN LIMBAH PLASTIK DI INDONESIA*.
- Sari Dewi, I., Aditya Budiarsa, A., & Ramadhan Ritonga, I. (2015). Distribusi mikroplastik pada sedimen di Muara Badak, Kabupaten Kutai Kartanegara. *DEPIK*, 4(3). <https://doi.org/10.13170/depik.4.3.2888>
- Scheurer, M., & Bigalke, M. (2018). Microplastics in Swiss Floodplain Soils. *Environmental Science and Technology*, 52(6), 3591–3598. <https://doi.org/10.1021/acs.est.7b06003>
- Septian. (2018). Semantic Scholar. *Journal Geomaritim Indonesia*, 1, 1–8.
- SNI 6964.8:2015. (2015). *Kualitas air laut – Bagian 8 : Metode pengambilan contoh uji air lau*.
- SNI 6964 Bagian 8 tentang Metode Pengambilan Contoh Uji Air Laut, (2015).
- Supriatna, Mahmudi, M., Musa, M., & Kursiani. (2020). *HUBUNGAN pH DENGAN PARAMETER KUALITAS AIR PADA TAMBAK INTENSIF UDANG VANNAMEI (Litopenaeus vannamei)*. <http://jfmr.ub.ac.id>

- Susana, T. (2009). TINGKAT KEASAMAN (pH) DAN OKSIGEN TERLARUT SEBAGAI INDIKATOR KUALITAS PERAIRAN SEKITAR MUARA SUNGAI CISADANE. *Jurnal Teknik Lingkungan*, 5, 33–39.
- Susetyo, B. (2012). *STATISTIKA UNTUK ANALISIS DATA PENELITIAN (IV)*. Refika Aditama.
- Susilawati, Mustafa, I., & Maulina Desy. (2011). BIODEGRADABLE PLASTIC FROM A MIXTURE OF LOW DENSITY POLYETHYLENE (LDPE) AND CASSAVA STARCH WITH THE ADDITION OF ACRYLIC ACID. *Jurnal Natural*, 11(2).
- Suteja, Y., Atmadipoera, A. S., Riani, E., Nurjaya, I. W., Nugroho, D., & Cordova, M. R. (2021). Spatial and temporal distribution of microplastic in surface water of tropical estuary: Case study in Benoa Bay, Bali, Indonesia. *Marine Pollution Bulletin*, 163, 1–14. <https://doi.org/10.1016/j.marpolbul.2021.111979>
- Teresa A.P. Rocha-Santos, & Armando C. Duarte. (2017). *Characterization and Analysis of Microplastics* (1st ed., Vol. 75). Elsevier.
- Tran Nguyen, Q. A., Nguyen, H. N. Y., Strady, E., Nguyen, Q. T., Trinh-Dang, M., & Vo, V. M. (2020). Characteristics of microplastics in shoreline sediments from a tropical and urbanized beach (Da Nang, Vietnam). *Marine Pollution Bulletin*, 161. <https://doi.org/10.1016/j.marpolbul.2020.111768>
- Triadi, H. (2021). *triadi 2021*. Universitas Andalas.
- Urbanek, A. K., Rymowicz, W., & Mirończuk, A. M. (2018). Degradation of plastics and plastic-degrading bacteria in cold marine habitats. In *Applied Microbiology and Biotechnology* (Vol. 102, Issue 18, pp. 7669–7678). Springer Verlag. <https://doi.org/10.1007/s00253-018-9195-y>
- U.S. Environmental Protection Agency. (2020). *LSASDPROC-200-R4 Sediment Sampling Effective*.
- Wagner, M., & Lambert, S. (2018). *Freshwater Microplastics Emerging Environmental Contaminants* (D. Barcelo & A. G. Kostianoy, Eds.; Vol. 58). Otto Hutzinger. <http://www.springer.com/series/698>
- Wagner, M., Scherer, C., Alvarez-Muñoz, D., Brennholt, N., Bourrain, X., Buchinger, S., Fries, E., Grosbois, C., Klasmeier, J., Marti, T., Rodriguez-Mozaz, S., Urbatzka, R., Vethaak, A. D., Winther-Nielsen, M., & Reifferscheid, G. (2014). Microplastics in freshwater ecosystems: what we know and what we need to know. *Environmental Sciences Europe*, 26(1), 1–9. <https://doi.org/10.1186/s12302-014-0012-7>

Widianarko, B., & Hantoro, I. (2018). *Mikroplastik dalam Seafood dari Pantai Utara Jawa*. Universitas Katolik Soegijapranata. [www.unika.ac.id](http://www.unika.ac.id)

World Health Organization. (2019). *Microplastics in drinking-water* (World Health Organization, Ed.).

Wright, S. L., Thompson, R. C., & Galloway, T. S. (2013). The physical impacts of microplastics on marine organisms: a review. In *Environmental pollution* (Barking, Essex : 1987) (Vol. 178, pp. 483–492). <https://doi.org/10.1016/j.envpol.2013.02.031>

Yoga, F. N. (2022). *ANALISIS KANDUNGAN MIKROPLASTIK DI KAWASAN PANTAI CAROCOK PAINAN*.

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. *Environmental Pollution*, 231, 541–548. <https://doi.org/10.1016/j.envpol.2017.08.058>

