

DAFTAR PUSTAKA

- Affandi, Z., Yuliana, E., & Warlina, L. (2024). Kaitan Struktur Vegetasi Mangrove dengan Lingkungan Fisik di Pulau Dompok Kota Tanjungpinang. *AKSARA: Jurnal Ilmu Pendidikan Nonformal*, 10(1), 43–52. <http://ejurnal.pps.ung.ac.id/index.php/Aksara>
- Amaliyah, S., Hariyanto, S., & Purnobasuki, H. (2017). Research Article Roots Morphology of *Rhizophora apiculata* Blume as an Adaptation Strategy of Waterlogging and Sediment. *Journal of Biological Sciences*, 17(3), 118–126. <https://doi.org/10.3923/jbs.2017.118.126>
- Ayuningtyas, W. C., Yona, D., Julinda S, S. H., & Iranawati, F. (2019). [A-019] Kelimahan Mikroplastik pada Perairan di Banyurip, Gresik, Jawa Timur. / *Journal of Fisheries and Marine Research*, 3(1), 41–45. https://univindonesia-my.sharepoint.com/:b:/g/personal/filza_aprilia_office_ui_ac_id/Efs61VSXcr5LjrG7WoZ3sYBN7gigpLpki3fCHY6RUtA0A?e=LaEmed
- Boerger, C. M., Lattin, G. L., Moore, S. L., & Moore, C. J. (2010). Plastic ingestion by planktivorous fishes in the North Pacific Central Gyre. *Marine Pollution Bulletin*, 60(12), 2275–2278. <https://doi.org/10.1016/j.marpolbul.2010.08.007>
- Camins, E., de Haan, W. P., Salvo, V.-S., Canals, M., Raffard, A., & Sanchez-Vidal, A. (2020). Paddle surfing for science on microplastic pollution. *Science of The Total Environment*, 709, 136178. <https://doi.org/https://doi.org/10.1016/j.scitotenv.2019.136178>
- Chamas, A., Moon, H., Zheng, J., Qiu, Y., Tabassum, T., Jang, J. H., Abu-Omar, M., Scott, S. L., & Suh, S. (2020). Degradation Rates of Plastics in the Environment. *ACS Sustainable Chemistry and Engineering*, 8(9), 3494–3511. <https://doi.org/10.1021/acssuschemeng.9b06635>
- Chen, X., Chen, X., Liu, Q., Zhao, Q., Xiong, X., & Wu, C. (2021). Used disposable face masks are significant sources of microplastics. *Environmental Pollution*, 285(January), 117485. <https://doi.org/10.1016/j.envpol.2021.117485>
- Claessens, M., Van Cauwenberghe, L., Vandegehuchte, M. B., & Janssen, C. R. (2013). New techniques for the detection of microplastics in sediments and field collected organisms. *Marine Pollution Bulletin*, 70(1–2), 227–233. <https://doi.org/10.1016/j.marpolbul.2013.03.009>
- Cole, M., Lindeque, P., Halsband, C., & Galloway, T. S. (2011). Microplastics as contaminants in the marine environment: A review. *Marine Pollution Bulletin*, 62(12), 2588–2597. <https://doi.org/10.1016/j.marpolbul.2011.09.025>
- Dawson, A. L., Kawaguchi, S., King, C. K., Townsend, K. A., King, R., Huston, W. M., & Nash, S. M. B. (n.d.). digestive fragmentation by Antarctic krill. *Nature Communications*, (2018), 1–8. <https://doi.org/10.1038/s41467-018-03465-9>
- Dialam, P. K., Lestari, F., & Susiana, S. (2023). Tingkat Kerusakan Ekosistem Mangrove di Pulau Dompok Kepulauan Riau. *Jurnal*

- Akuatiklestarti*,7(1),82–89.
<https://ojs.umrah.ac.id/index.php/akuatiklestari/article/view/4638>
- Dris, R., Gasperi, J., Saad, M., Mirande, C., & Tassin, B. (2016). Synthetic fibers in atmospheric fallout: A source of microplastics in the environment? *Marine Pollution Bulletin*,104(1–2),290–293. <https://doi.org/10.1016/j.marpolbul.2016.01.006>
- Duan, J., Han, J., Gin, S., Kong, R., Chong, Y., Lo, C., Lee, F. W., Xu, S. J., Yang, Y., Tam, N. F., & Zhou, H. (2021). Science of the Total Environment How mangrove plants affect microplastic distribution in sediments of coastal wetlands : Case study in Shenzhen Bay , South China. *Science of the Total Environment*, 767, 144695. <https://doi.org/10.1016/j.scitotenv.2020.144695>
- Fang, C., Zheng, R., Hong, F., Chen, S., Chen, G., Zhang, M., Gao, F., Chen, J., & Bo, J. (2023). First evidence of meso- and microplastics on the mangrove leaves ingested by herbivorous snails and induced transcriptional responses. *Science of The Total Environment*, 865, 161240. <https://doi.org/https://doi.org/10.1016/j.scitotenv.2022.161240>
- Giri, C., Ochieng, E., Tieszen, L. L., Zhu, Z., Singh, A., Loveland, T., Masek, J., & Duke, N. (2011). Status and distribution of mangrove forests of the world using earth observation satellite data. *Global Ecology and Biogeography*, 20(1), 154–159. <https://doi.org/10.1111/j.1466-8238.2010.00584.x>
- Hastuti, A. R., Yulianda, F., & Wardiatno, Y. (2014). Spatial distribution of marine debris in mangrove ecosystem of Pantai Indah Kapuk, Jakarta. *International Journal of Bonorowo Wetlands*, 4(2), 94–107. <https://doi.org/10.13057/bonorowo/w040203>
- Hiwari, H., Purba, N. P., Ihsan, Y. N., Yuliadi, L. P. S., & Mulyani, P. G. (2019). Kondisi sampah mikroplastik di permukaan air laut sekitar Kupang dan Rote, Provinsi Nusa Tenggara Timur Condition of microplastic garbage in sea surface water at around Kupang and Rote , East Nusa Tenggara Province. *Pros Sem Nas Masy Biodiv Indon*, 5(2407–8050), 165–171. <https://doi.org/10.13057/psnmbi/m050204>
- Huang, Y., Xiao, X., Xu, C., Perianen, Y. D., Hu, J., & Holmer, M. (2019). Seagrass beds acting as a trap of microplastics - Emerging hotspot in the coastal region? *Environmental Pollution*,113450. <https://doi.org/10.1016/j.envpol.2019.113450>
- John, J., Nandhini, A. R., Velayudhaperumal Chellam, P., & Sillanpää, M. (2022). Microplastics in mangroves and coral reef ecosystems: a review. *Environmental Chemistry Letters*,20(1),397–416. <https://doi.org/10.1007/s10311-021-01326-4>
- Kathiresan, K., & Bingham, B. L. B. T.-A. in M. B. (2001). *Biology of mangroves and mangrove Ecosystems* (Vol. 40, pp. 81–251). Academic Press. [https://doi.org/https://doi.org/10.1016/S0065-2881\(01\)40003-4](https://doi.org/https://doi.org/10.1016/S0065-2881(01)40003-4)
- Kole, P. J., Löhr, A. J., Belleghem, F. G. A. J. Van, & Ragas, A. M. J. (2017). Wear and Tear of Tyres : A Stealthy Source of Microplastics in the Environment. *International Journal of Environmental Research*

- and Public Health*, 14(10). <https://doi.org/10.3390/ijerph14101265>
- Layn, A. A., Emiyarti, ., & Ira, . (2020). Distribusi Mikroplastik Pada Sedimen Di Perairan Teluk Kendari. *Jurnal Sapa Laut (Jurnal Ilmu Kelautan)*, 5(2), 115. <https://doi.org/10.33772/jsl.v5i2.12165>
- Li, R., Zhang, L., Xue, B., Wang, Y., Liu, Y., Chen, L., Zhang, H., & Shi, H. (2022). *Mangrove leaves: An undeniably important sink of microplastics*. *Science of the Total Environment*, 851, 158320. <https://doi.org/10.1016/j.scitotenv.2022.158320>
- Macintosh, D. J., & Ashton, E. C. (2002). *A Review of Mangrove Biodiversity Conservation and Management*. (June).
- Manalu, R., Zulfikar, A., & Apriadi, T. (2025). Mikroplastik pada Biofilm Daun Lamun *Thalassia hemprichii* di Perairan Kampung. *Journal of Marine Research*, 14(4), 678–689.
- Mendes, D. S., Beasley, C. R., Silva, D. N. N., & Fernandes, M. E. B. (2023). Microplastic in mangroves: A worldwide review of contamination in biotic and abiotic matrices. *Marine Pollution Bulletin*, 195(August), 115552. <https://doi.org/10.1016/j.marpolbul.2023.115552>
- Mohamed Nor, N. H., & Obbard, J. P. (2014a). Microplastics in Singapore's coastal mangrove ecosystems. *Marine Pollution Bulletin*, 79(1), 278–283. <https://doi.org/https://doi.org/10.1016/j.marpolbul.2013.11.025>
- Naibaho, A. A., Harefa, M. S., & Nainggolan, R. S. (2023). *Investigasi Pemanfaatan Hutan Mangrove dan Dampaknya Terhadap Daerah Pesisir di Pantai Mangrove Paluh Getah , Tanjung Rejo J-CoSE : Journal of Community Service dan Empowerment*. 1(1), 22–33.
- Ng, C. H., Mistoh, M. A., Teo, S. H., Galassi, A., Ibrahim, A., Sipaut, C. S., Foo, J., Seay, J., Taufiq-Yap, Y. H., & Janaun, J. (2023). Plastic waste and microplastic issues in Southeast Asia. *Frontiers in Environmental Science*, 11(April), 1–15. <https://doi.org/10.3389/fenvs.2023.1142071>
- noor, rusila nyus, Khazali m, S. (2006). *di Indonesia*.
- Peijnenburg, W. (2025). Airborne microplastics enter plant leaves and end up in our food. *Nature*, 641(8063), 601–602. <https://doi.org/10.1038/d41586-025-00909-3>
- Pramana, B., Pradiptaadi, A., Fallahian, F., Islam, U., Sunan, N., & Surabaya, A. (2022). Analisis Kelimpahan Mikroplastik Pada Air dan Sedimen di Kawasan Hilir DAS Brantas. *Environmental Pollution Journal*, 2(April), 344–352.
- Ramya, R., Kamoona, S., Ayuni, F., Hatta, M., Syibrah, W., & Wan, H. (2023). A Study on an Active Functional Group and Antimicrobial Properties From *Rhizophora apiculata* Extracts Used in Traditional Malay as Medicine. *Malaysian Applied Biology*, 52, 153–160.
- Roy, T., Dey, T. K., & Jamal, M. (2023). *Microplastic / nanoplastic toxicity in plants : an imminent concern*.
- Septian, F. M., Purba, N. P., Agung, M. U. K., Yuliadi, L. P. S., Akuan, L. F., & Mulyani, P. G. (2018). Sebaran Spasial Mikroplastik Di Sedimen Pantai Pangandaraan, Jawa Barat. *Jurnal Geomaritim*

- Indonesia. <https://api.semanticscholar.org/CorpusID:192696405>
- Silva, A. L. P., Prata, J. C., Duarte, A. C., & Soares, A. M. V. M. (2021). Case Studies in Chemical and Environmental Engineering Microplastics in landfill leachates : The need for reconnaissance studies and remediation technologies. *Case Studies in Chemical and Environmental Engineering*, 3(December 2020). <https://doi.org/10.1016/j.cscee.2020.100072>
- Sormin, R. B. D., Nendissa, D. M., Mailoa, M. N., Rieuwpassa, F., & Wenno, M.R. (2021). Antibacterial activity of Rhizophora apiculata extract originated from Inner Ambon Bay against selected pathogen bacteria Antibacterial activity of Rhizophora apiculata extract originated from Inner Ambon Bay against selected pathogen bacteria. *IOP Conference Series: Earth and Environmental Science*, 797(1). <https://doi.org/10.1088/1755-1315/797/1/012017>
- Sridharan, S., Kumar, M., Singh, L., Bolan, N. S., & Saha, M. (2021). Microplastics as an emerging source of particulate air pollution: A critical review. *Journal of Hazardous Materials*, 418(May), 126245. <https://doi.org/10.1016/j.jhazmat.2021.126245>
- Susanto, Fitria; Purwaningrum; Fadila, T. (2022). Kajian Kelimpahan Mikroplastik Pada Berbagai Tekstur Sedimen Di Kawasan Pantai Wisata Mangrove Desa Labuhan. *Juvenil:Jurnal Ilmiah Kelautan Dan Perikanan*,3(4), 143–150.
- Syah, A. F. (2020). *Penanaman Mangrove Sebagai Upaya Pencegahan Abrasi di Desa Socah Kabupaten Bangkalan*. 6(1).
- Theoyana TA, Pranowo WS, Anastasia RTDK, Purwanto. 2015. Karakteristik Arus Pasang Surut di Selat Badung, Bali. *J. Segara*. 11(2): 115-123
- Utami, R., Rismawati, W., Sapanli, K., Pi, S., & Si, M. (2018). Pemanfaatan Mangrove Untuk Mengurangi Logam Berat Di Perairan Utilization Of Mangroves To Reduce Heavy. 141–153.
- Wicaksono, E.A., Werorilangi, S., Galloway, T.S., & Tahir, A. (2021). Distribution and Seasonal Variation of Microplastics in Tallo River, Makassar, Eastern Indonesia. *Toxics*, 9(6), 1–13.
- Yan, Y., Duke, N. C., Sun, M., & Sun, M. (2016). Comparative Analysis of the Pattern of Population Genetic Diversity in Three Indo-West Pacific RhizophoraMangroveSpecies.7(September),1–17. <https://doi.org/10.3389/fpls.2016.01434>