

DAFTAR PUSTAKA

- Afif, J., Ngabekti, S., & Pribadi, T. A. (2014). Keanekaragaman makrozoobentos sebagai indikator kualitas perairan di ekosistem mangrove wilayah Tapak Kelurahan Tugurejo Kota Semarang. *Life Science*, 3(1).
- Ahmed, S., Sarker, S. K., Friess, D. A., Kamruzzaman, M., Jacobs, M., Sillanpää, M., ... & Pretzsch, H. (2023). Mangrove tree growth is size-dependent across a large-scale salinity gradient. *Forest Ecology and Management*, 537, 120954.
- Akram H, Hussain S, Mazumdar P, Chua KO, Butt TE, Harikrishna JA. Mangrove Health: A Review of Functions, Threats, and Challenges Associated with Mangrove Management Practices. *Forests*. 2023; 14(9):1698. <https://doi.org/10.3390/f14091698>
- Alongi, D. M. (2009). The energetics of mangrove forests. Springer Science & Business Media. e-ISBN 978-1-4020-4271-3
- Alongi, D. M. (2014). Carbon sequestration in mangrove ecosystems. *Carbon Management*, (2012) 3(3), 313–322
- Alvareza, M., & Leilani, I. (2020). Community structure of the mangrove forest in the tourism area of Pariaman City, West Sumatra. *Bioscience*, 4(1), 62-72.
- Anandraj, A., White, S., Naidoo, D., & Mutanda, T. (2020). Monitoring the acclimatization of a *Chlorella* sp. from freshwater to hypersalinity using photosynthetic parameters of pulse amplitude modulated fluorometry. *Bioresource Technology*, 309, 123380.
- Anderson, M. J. (2001). A new method for non-parametric multivariate analysis of variance. *Austral Ecology*, 26(1), 32-46.
- Anderson, M. J., & Santana-Garcon, J. (2015). Measures of precision for dissimilarity-based multivariate analysis of ecological communities. *Ecology letters*, 18(1), 66-73.
- APHA. (2017). *Standard Methods for the Examination of Water and Wastewater* (23rd ed.). Washington, DC: American Public Health Association, American Water Works Association, Water Environment Federation.
- Appadoo. C, Fouad Abdou Rabi, Sylvanna Antha, Lyndy J. Bastienne, Mira Hurbungs, James Mougale, Rajoo Ragoonaden, Nashreen Soogun and Terrence Vel. 2015. Mangroves of small islands. In: Bosire J. O., Mangora M. M., Bandeira S., Rajkaran A., Ratsimbazafy R., Appadoo C. and Kairo J. G. (eds.). *Mangroves of the Western Indian Ocean: Status and Management*. WIOMSA, Zanzibar Town, pp. 115-134. ISBN: 978-9987-9559-4-7.

- Ardang, D. M., Soenardjo, N., & Taufiq-SPJ, N. (2023). Hubungan Tekstur Sedimen Terhadap Vegetasi Mangrove Di Desa Pasar Banggi, Kabupaten Rembang. *Journal of Marine Research*, 12(3), 519-526.
- Ario, R., & Handoyo, G. (2002). Kajian Struktur Komunitas Makrozoobenthos Sebagai Bioindikator di Perairan Muara Sungai Ketiwon, Tegal. *Ilmu Kelautan: Indonesian Journal of Marine Sciences*, 7(1), 17-22.
- Azad, M. S., Kamruzzaman, M., & Kanzaki, M. (2021). Canopy gaps influence regeneration dynamics in cyclone affected mangrove stands in medium saline zone of the Sundarbans, Bangladesh. *Acta Ecologica Sinica*, 41(4), 296-303.
- Bahtiar, B., Permatahati, Y. I., Findra, M. N., & Fekri, L. (2023). Production, biomass, and turnover of exploited mangrove clams (*Geloina expansa*, Mousson 1849) in Kendari Bay mangrove forest, Southeast Sulawesi Indonesia. *BIO Web of Conferences*, 74, 03009. <https://doi.org/10.1051/bioconf/20237403009>
- Banerjee, K., Gatti, R. C., & Mitra, A. (2017). Climate change-induced salinity variation impacts on a stenoeccious mangrove species in the Indian Sundarbans. *Ambio*, 46(4), 492-499.
- Bapelitbangda Kabupaten Rote Ndao. 2024. Rancangan teknokratik RPJMD Kabupaten Rote Ndao tahun 2025–2029.
- Barnes, R. S. K. (2003). Interactions between benthic molluscs in a Sulawesi mangal, Indonesia: the cerithiid mud-creeper *Cerithium coralium* and potamidid mud-whelks, *Terebralia* spp. *Journal of the Marine Biological Association of the United Kingdom*, 83(3), 483-487.
- Barroso, G. R., Gomes, L. N. L., & Oliveira, S. C. (2025). Planktonic communities as indicators of water quality in a tropical reservoir. *Environmental Management*, 75(6), 1571-1588.
- Barus, T. A., 2001. Pengantar Limnologi. Studi Tentang Ekosistem Sungai Dan Danau. Departemen Biologi. FMIPA Universitas Sumatera Utara, Medan.
- Bengen, D. G. (2000). Pengenalan dan pengelolaan ekosistem mangrove. Pusat Kajian Sumberdaya Pesisir dan Lautan. IPB, Bogor
- Brinson, M. M., & Rheinhardt, R. (1996). The role of reference wetlands in functional assessment and mitigation. *Ecological applications*, 6(1), 69-76.
- Busu, N. (2023). Analisis vegetasi dan regenerasi mangrove di Pantai litanak Desa Holulai kecamatan Loaholu Kabupaten Rote Ndao. Universitas Nusa Cendana. Kupang
- Carugati, L., Gatto, B., Rastelli, E., Lo Martire, M., Coral, C., Greco, S., & Danovaro, R. (2018). Impact of mangrove forests degradation on biodiversity and ecosystem functioning. *Scientific reports*, 8(1), 13298.

- Cerri, F., Mohamed, S., & Galli, P. (2025). Mangrove forests as a natural trap for marine plastic litter: Insights from the Maldives. *Marine Pollution Bulletin*, 213, 117677. <https://doi.org/10.1016/j.marpolbul.2024.117677>.
- Chapman, V. J. (1987). *Mangrove vegetation*. J. Cramer, Vaduz.
- Chowdhury, R., Sutradhar, T., Begam, M. M., Mukherjee, C., Chatterjee, K., Basak, S. K., & Ray, K. (2019). Effects of nutrient limitation, salinity increase, and associated stressors on mangrove forest cover, structure, and zonation across Indian Sundarbans. *Hydrobiologia*, 842(1), 191-217.
- Cohen, P. J., Cinner, J. E., & Foale, S. J. (2020). Fishing dynamics associated with periodically harvested marine closures. *Global Environmental Change*, 60, 102-109.
- Cuesta Núñez, J., Romero, M. A., Ocampo Reinaldo, M., González, R., Magurran, A., & Svendsen, G. M. (2023). Species turnover drives functional turnover with balanced functional nestedness in a Patagonian demersal assemblage. *Journal of Sea Research*, 196, 102452. <https://doi.org/10.1016/j.seares.2023.102452>
- Dali G.L.A., D. W. Aheto, and J. Blay. (2023). Mangrove resource utilization and impacts in the Pra and Kakum estuaries of Ghana. *Regional Studies in Marine Science* 63 (2023) 103035.
- Davidson, K., Gowen, R. J., Harrison, P. J., Fleming, L. E., Hoagland, P., & Moschonas, G. (2014). Anthropogenic nutrients and harmful algae in coastal waters. *Journal of Environmental Management*, 146, 206–216. <https://doi.org/10.1016/j.jenvman.2014.07.002>
- de Lima Freires, J., Lage-Pinto, F., & Bernini, E. (2023). Spatial-temporal distribution of mangrove species in the estuary of the Mamanguape river in the state of Paraíba, Brazil. *Regional Studies in Marine Science*, 66, 103166. <https://doi.org/10.1016/j.rsma.2023.103166>
- Deng, Y., Xu, X., Xu, J., Wang, W., Lu, R., Zhuo, H., ... & Huang, X. (2024). Hydrological-driven changes in the phytoplankton community structure under nutrient stress in island river ecosystems. *Journal of Sea Research*, 202, 102548.
- Dexter, E., Rollwagen-Bollens, G., & Bollens, S. M. (2018). The trouble with stress: A flexible method for the evaluation of nonmetric multidimensional scaling. *Limnology and Oceanography: Methods*, 16(7), 434-443.
- Dissanayake, N., & Chandrasekara, U. (2014). Effects of mangrove zonation and the physicochemical parameters of soil on the distribution of macrobenthic fauna in Kadolkele mangrove forest, a tropical mangrove forest in Sri Lanka. *Advances in Ecology*, 2014(1), 564056.
- Duke, N. C., Meynecke, J. O., Dittmann, S., Ellison, A. M., Anger, K., Berger, U., ... & Dahdouh-Guebas, F. (2007). A world without mangroves?. *Science*, 317(5834), 41-42.

- Effendi, H. 2003. Telaah Kualitas Air Bagi Pengelolaan Sumberdaya dan Lingkungan Perairan. Penerbit Kanisius. Yogyakarta.
- Eszergár-Kiss, D., & Caesar, B. (2017). Definition of user groups applying Ward's method. *Transportation Research Procedia*, 22, 25-34.
- Feld, C. K., Martins da Silva, P., Paulo Sousa, J., De Bello, F., Bugter, R., Grandin, U., ... & Harrison, P. (2009). Indicators of biodiversity and ecosystem services: a synthesis across ecosystems and spatial scales. *Oikos*, 118(12), 1862-1871.
- Field, C. D. 1995. Impact of expected climate change on mangroves. *Hydrobiologia* 295, 75-81.
- Field, C. D. (1999). Rehabilitation of mangrove ecosystems: An overview. *Marine Pollution Bulletin*, 37(8-12), 383-392. [https://doi.org/10.1016/S0025-326X\(99\)00106-X](https://doi.org/10.1016/S0025-326X(99)00106-X).
- Food and Agriculture Organization. 2023. The World's Mangroves 2000–2020. <https://doi.org/10.4060/cc7044en>
- Friess, D. A., Rogers, K., Lovelock, C. E., Krauss, K. W., Hamilton, S. E., Lee, S. Y., ... & Ball, M. C. (2019). The state of the world's mangrove forests: Past, present, and future. *Annual Review of Environment and Resources*, 44, 89-115. <https://doi.org/10.1146/annurev-environ-101718-033302>
- Funk, J. L. (2021). Revising the trait-based filtering framework to include interacting filters: Lessons from grassland restoration. *Journal of Ecology*, 109(11), 3763-3773. <https://doi.org/10.1111/1365-2745.13763>.
- Gillespie, G. R., Howard, S., Stroud, J. T., Ul-Hassanah, A., Campling, M., Lardner, B., Scroggie, M. P., & Kusriani, M. (2015). Responses of tropical forest herpetofauna to moderate anthropogenic disturbance and effects of natural habitat variation in Sulawesi, Indonesia. *Biological Conservation*, 192, 161–173. <https://doi.org/10.1016/j.biocon.2015.08.034>
- Grove, S. L., & Probert, P. K. (1999). Sediment macrobenthos of upper Otago Harbour, New Zealand. *New Zealand Journal of Marine and Freshwater Research*, 33(3), 469-480.
- Hallegraeff, G. M. (2021). Global Harmful Algal Bloom: status report 2021: A Scientific Summary for Policy Makers.
- Hamilton, S. E., & Friess, D. A. (2018). Global carbon stocks and potential emissions due to mangrove deforestation from 2000 to 2012. *Nature Climate Change*, 8(3), 240-244.
- Hogarth, P. J. 1999. *The Biology of Mangroves*. Oxford University Press. New York.
- Hogarth, P. J. (2015). *The Biology of Mangroves and Seagrasses* (3rd edn). New York: Oxford University Press. <https://doi.org/10.1093/acprof:oso/9780198716549.001.0001>

- Holguin, G., Vazquez, P. & Bashan, Y. (2001). The role of sediment microorganisms in the productivity, conservation, and rehabilitation of mangrove ecosystems: an overview. *Biol Fertil Soils* 33, 265–278. <https://doi.org/10.1007/s003740000319>
- Imamsyah, A., ARTHANA, I. W., & ASTARINI, I. A. (2020). The influence of physicochemical environment on the distribution and abundance of mangrove gastropods in Ngurah Rai Forest Park Bali, Indonesia. *Biodiversitas Journal of Biological Diversity*, 21(7).
- Jorgensen SE, Xu FL, Salas F, Marques JC. 2005. *Handbook Ecological Indicators for Assesment of Ecosystem Health*. (US): CRC Press.
- Joshi, H., & Ghose, M. (2003). Forest structure and species distribution along soil salinity and pH gradient in mangrove swamps of the Sundarbans. *Tropical Ecology*, 44(2), 195-204.
- Kathiresan, K., & Bingham, B. L. (2001). Biology of Mangroves and Mangrove Ecosystems. *Advances in Marine Biology*, 40, 81-251. [http://dx.doi.org/10.1016/S0065-2881\(01\)40003-4](http://dx.doi.org/10.1016/S0065-2881(01)40003-4)
- Katiresan, K., & Rajendran, N. (2005). Coastal mangrove forests mitigated tsunami. *Estuarine, Coastal and Shelf Science*, 65(3), 601-606. <https://doi.org/10.1016/j.ecss.2005.06.022>
- Keddy, P. A. (1992). Assembly and response rules: Two goals for predictive community ecology. *Journal of Vegetation Science*, 3(2), 157-164. (Dikutip dari Filters, Cambridge University Press).
- Kokarev, V. N., Vedenin, A. A., Polukhin, A. A., & Basin, A. B. (2021). Taxonomic and functional patterns of macrobenthic communities on a high Arctic shelf: A case study from the East Siberian Sea. *Journal of Sea Research*, 174, 102078.
- Kraft, N. J. B., Adler, P. B., Godoy, O., James, E. C., Fuller, S., & Levine, J. M. (2015). Community assembly, coexistence and the environmental filtering metaphor. *Functional Ecology*, 29(5), 592-599. <https://doi.org/10.1111/1365-2435.12345>.
- Krebs, C. J. (2014). *Ecology: The experimental analysis of distribution and abundance* (6th ed.). Pearson.
- Kusmana, C. S. Wilarso, I. Hilwan, P. Pamoengkas, C. Wibowo, T. Tiryana, A. Triswanto, Yunaswi dan Hamzah. 2003. *Teknik Rehabilitasi Mangrove*. Fakultas Kehutanan. Institut Pertanian Bogor. Bogor.
- Lee, S.Y. (1998) Ecological Role of Grapsid Crabs in Mangrove Ecosystems: A Review. *Marine and Freshwater Research*, 49, 335-343. <http://dx.doi.org/10.1071/MF97179>
- Lestariningsih, W. A., Rahman, I., & Buhari, N. (2022). Kerapatan dan Tutupan Kanopi Ekosistem Mangrove di Desa Wisata Pare Mas, Lombok Timur. *Journal of Marine Research*, 11(3), 367-373.

- Li, X., Wen, Y., Chen, X., Qie, Y., Cao, K. F., & Wee, A. K. S. (2022). Correlations between photosynthetic heat tolerance and leaf anatomy and climatic niche in Asian mangrove trees. *Plant Biology*, 24(6), 960-966.
- Lin, Q., Chen, L. Z., Zhang, J., Wang, L., Yu, X., & Guo, Q. (2022). How fine root turnover functions during mangrove root zone expansion and affects belowground carbon processes. *Research Square* (Preprint). <https://doi.org/10.21203/rs.3.rs-2287976/v1>
- Lin, Y., & Wiegand, K. (2023). Low R2 in ecology: Bitter, or B-side?. *Ecological indicators*, 153, 110406.
- Lopes, D. M. S., Tognella, M. M. P., Falqueto, A. R., & Soares, M. L. G. (2019). Salinity variation effects on photosynthetic responses of the mangrove species *Rhizophora mangle* L. growing in natural habitats. *Photosynthetica*, 57(4), 1142-1155.
- Lv, T., Ding, H., Wang, N., Xie, L., Chen, S., Wang, D., & Fang, Y. (2024). The roles of environmental filtering and competitive exclusion in the plant community assembly at Mt. Huangshan are forest-type-dependent. *Global Ecology and Conservation*, 51, e02906. <https://doi.org/10.1016/j.gecco.2024.e02906>.
- Ma, W., Wang, W., Tang, C., Chen, G., & Wang, M. (2020). Zonation of mangrove flora and fauna in a subtropical estuarine wetland based on surface elevation. *Ecology and Evolution*, 10(14), 7404-7418.
- Mazda, Y., *et al.* (1997). Mangroves as a coastal protection from waves in the Tong King delta, Vietnam. *Mangroves and Salt Marshes*, 1(2), 127-135. <http://dx.doi.org/10.1023/A:1009928003700>
- Mitra, A. and T. Guha. 2020. Crucial role of salinity in mangrove domain. ISBN: 978-81-947216-7-3. H.S.R.A publications, India.
- Mohd-Din, M., Abdul-Wahab, M. F., Mohamad, S. E., Jamaluddin, H., Shahir, S., Ibrahim, Z., ... & Lim, P. T. (2020). Prolonged high biomass diatom blooms induced formation of hypoxic-anoxic zones in the inner part of Johor Strait. *Environmental Science and Pollution Research*, 27(34), 42948-42959.
- Mumby, P., A. J. Edwards. E. Arias., K Lindeman. (2004). Mangroves Enhance the Biomass of Coral Reef Fish Communities in the Caribbean. *Nature*. 427(6974), 533-536. <https://doi.org/10.1038/nature02286>
- Murdiyarto, D., Purbopuspito, J., Kauffman, J. B., Warren, M. W., Sasmito, S. D., Donato, D. C., ... & Kurnianto, S. (2015). The potential of Indonesian mangrove forests for global climate change mitigation. *Nature climate change*, 5(12), 1089-1092.
- Nagelkerken, I., *et al.* (2008). The habitat function of mangroves for terrestrial and marine fauna: A review. *Aquatic Botany*, 89(2), 155-185. <http://dx.doi.org/10.1016/j.aquabot.2007.12.007>

- Niveditha, S. K., Haridevi, C. K., Hardikar, R., & Ram, A. (2022). Phytoplankton assemblage and chlorophyll a along the salinity gradient in a hypoxic eutrophic tropical estuary-Ulhas Estuary, West Coast of India. *Marine Pollution Bulletin*, 180, 113719
- Nwankwegu, Amechi S., *et al.* "Variabilities in autumn cyanobacterial responses to ecosystem external enrichments based on nutrient addition bioassay in Pengxi River, Three Gorges Reservoir, China." *Environmental Pollution* 303 (2022): 119103.
- Nybakken, J. W. (1988). *Biologi laut, Suatu pendekatan ekologis*. PT Gramedia. Jakarta
- Oberle, B., Bustetter, S., Continentino, L., Smith, T., Frank, G., Robison, M., ... & Gardiner, J. M. (2025). Community–ecosystem interactions control plant biodiversity change before and after mangrove restoration. *Ecological Applications*, 35(1), e70100. <https://doi.org/10.1002/eap.70100>.
- Odum, E. P. 1982. *Fundamentals of ecology*. Mc-Graw Hill. London
- Okeh, U. M. (2009). Statistical analysis of the application of Wilcoxon and Mann-Whitney U test in medical research studies. *Biotechnology and molecular biology reviews*, 4(6), 128-131.
- Pemerintah Kabupaten Rote Ndao. 2021. *Perubahan rencana pembangunan RPJMD jangka menengah daerah Kabupaten Rote Ndao tahun 2019-2024*.
- Poedjirahajoe, E. (2007). *Pengelompokan mangrove berdasarkan faktor habitat di Pantai Utara Jawa Tengah*. DPP Fakultas Kehutanan UGM.
- Poedjirahajoe, E. (2012). The role of mangrove on Mud substrate accumulation in rehabilitated area on The north coast of Brebes central java. *Conference on new perspective of tropical forest rehabilitation for better forest functions and management*.
- Poedjirahajoe, E. (2019). *Ekosistem mangrove: Karakteristik, fungsi dan dinamikanya*. ISBN 978-602-5411-46-5.
- Poedjirahajoe, E. 2006. *Klasifikasi Lahan Potensial Untuk Rehabilitasi Mangrove Di Pantai Utara Jawa Tengah*. Disertasi. Universitas Gajah Mada. Yogyakarta.
- Poedjirahajoe, E., *et al.* (2024). *Analisis ekologis kelayakan lokasi persemaian mangrove permanen*. ISBN 978-632-6913-45-1.
- Poorter, L., van Der Sande, M. T., Amisshah, L., Bongers, F., Hordijk, I., Kok, J., ... & Lohbeck, M. (2024). A comprehensive framework for vegetation succession. *Ecosphere*, 15(4), e4794.
- Primavera, J. H., Friess, D. A., Van Lavieren, H., & Lee, S. Y. (2019). The mangrove ecosystem. *World seas: an environmental evaluation*, 1-34.
- Purwiyatno, A. I. S., & Agustriani, F. (2014). Effect of Silvofishery on Ponds Nutrient Levels (Pengaruh Silvofishery Terhadap Kandungan Nutrien di

- Tambak). *ILMU KELAUTAN: Indonesian Journal of Marine Sciences*, 19(2), 81-87.
- RAGANAS, A. F., Hadsall, A. S., Pampolina, N. M., Hotes, S., & Magcale-Macandog, D. B. (2020). Regeneration capacity and threats to mangrove areas on the southern coast of Oriental Mindoro, Philippines: Implications to mangrove ecosystem rehabilitation. *Biodiversitas Journal of Biological Diversity*, 21(8).
- Raharjo, P. D., & Haryono, E. (2020). Sintesa Geomorfologi Antroposen Kawasan Cagar Alam Geologi Karangsambung Bagian Selatan. *Jurnal Geografi Gea*, 20(2), 141-150.
- Ricotta, C., & Podani, J. (2017). On some properties of the Bray-Curtis dissimilarity and their ecological meaning. *Ecological Complexity*, 31, 201-205.
- Rius, A. T., Denis, L., Dauvin, J. C., & Spilmont, N. (2018). Macrobenthic diversity and sediment-water exchanges of oxygen and ammonium: Example of two subtidal communities of the eastern English Channel. *Journal of Sea Research*, 136, 15-27.
- Salako, V. K., Adebajji, A., & Kakai, R. G. (2013). On the empirical performance of non-metric multidimensional scaling in vegetation studies.
- Sánchez-Núñez, D. A., Bernal, G., & Mancera Pineda, J. E. (2019). The Relative Role of Mangroves on Wave Erosion Mitigation and Sediment Properties. *Estuaries and Coasts*, 42(8), 2124–2138. <https://doi.org/10.1007/s12237-019-00628-9>
- Sánchez-Núñez, D. A., Bernal, G., & Mancera Pineda, J. E. (2019). The relative role of mangroves on wave erosion mitigation and sediment properties. *Estuaries and Coasts*, 42(8), 2124–2138. <https://doi.org/10.1007/s12237-019-00628-9>
- Sarker, S., Masud-Ul-Alam, M., Hossain, M. S., Rahman Chowdhury, S., & Sharifuzzaman, S. M. (2021). A review of bioturbation and sediment organic geochemistry in mangroves. *Geological Journal*, 56(5), 2439-2450.
- Seale, A. P., & Breves, J. P. (2022). Endocrine and osmoregulatory responses to tidally-changing salinities in fishes. *General and Comparative Endocrinology*, 326, 114071.
- Setiawati, K. M., Sembiring, S. B. M., Widiastuti, Z., Giri, N. A., & Hutapea, J. H. (2023, August). Effect of salinity on survival and growth of Sea cucumber, *Stichopus* sp. Juvenile. In *IOP Conference Series: Earth and Environmental Science* (Vol. 1221, No. 1, p. 012018). IOP Publishing.
- Singh, J. K. (2020). Structural characteristics of mangrove forest in different coastal habitats of Gulf of Khambhat arid region of Gujarat, west coast of India. *Heliyon*, 6(8).

- Somerfield, P. J. (2008). Identification of the Bray-Curtis similarity index: Comment on Yoshioka (2008). *Marine Ecology Progress Series*, 372, 303-306.
- Sribianti, I. 2023. Hutan mangrove dalam perspektif ekologi. ISBN 978-623-02-5874-9. Deepublish publisher
- Srikanth, S., Lum, S. K. Y., & Chen, Z. (2016). Mangrove root: adaptations and ecological importance. *Trees*, 30(2), 451-465.
- St. Pierre, K. A., Hunt, B. P., Tank, S. E., Giesbrecht, I., Korver, M. C., Floyd, W. C., ... & Lertzman, K. P. (2021). Rain-fed streams dilute inorganic nutrients but subsidise organic-matter-associated nutrients in coastal waters of the northeast Pacific Ocean. *Biogeosciences*, 18(10), 3029-3052.
- Sukardjo, S. (2002). Conservation of Mangrove Forest in Indonesia: A Perspective. *Wetlands Ecology and Management*, 10(5), 313-320.
- Tameirão, L. B. S., Caminha-Paiva, D., Negreiros, D., Veloso, M. D. M., Berbara, R. L. L., Dias, L. E., ... & Fernandes, G. W. (2021). Role of environmental filtering and functional traits for species coexistence in a harsh tropical montane ecosystem. *Biological Journal of the Linnean Society*, 133(2), 546-560. <https://doi.org/10.1093/biolinnean/blaa181>.
- Tamimi, B. M., WA, W. J., Nizam, M. S., & Zain, C. R. C. M. (2021). Temperature stress on physiological and morphological traits in *Rhizophora apiculata*. *Baghdad Science Journal*, 18(4 (Suppl.)), 1492-1492.
- ter Braak, C. J. F., & Verdonschot, P. F. M. (1995). Canonical correspondence analysis and related multivariate methods in aquatic ecology. *Aquatic Sciences*, 57(3), 255-289.
- Terlizzi, A., Benedetti-Cecchi, L., Bevilacqua, S., Fraschetti, S., Guidetti, P., & Anderson, M. J. (2005). Multivariate and univariate asymmetrical analyses in environmental impact assessment: a case study of Mediterranean subtidal sessile assemblages. *Marine Ecology Progress Series*, 289, 27-42.
- Tomlinson, P. B. (1986). *The botany of mangroves*. University Press, Cambridge.
- Ulrich, W., Sewerniak, P., Puchałka, R., & Piwczynski, M. (2017). Environmental filtering triggers community assembly of forest understorey plants in Central European pine stands. *Scientific Reports*, 7(1), 274. <https://doi.org/10.1038/s41598-017-00255-z>.
- Upadhyay, V. P., Ranjan, R., & Singh, J. S. (2002). Human-mangrove conflicts: The way out. *Current Science*, 83(11), 1328-1336.
- Utami, W., Sugiyanto, C., & Rahardjo, N. (2024). Strategi degradasi dan pengelolaan kawasan mangrove di Indonesia: Sebuah tinjauan. *Jurnal Pengelolaan Lahan Terdegradasi dan Pertambangan*, 11 (3), 6037-6047.
- Van der Stocken, T., Wee, A. K., De Ryck, D. J., Vanschoenwinkel, B., Friess, D. A., Dahdouh-Guebas, F., ... & Webb, E. L. (2019). A general framework

for propagule dispersal in mangroves. *Biological Reviews*, 94(4), 1547-1575.

- Warren-Rhodes, K., Schwarz, A. M., Boyle, L. N., Albert, J., Agalo, S. S., Warren, R., ... & Duke, N. (2011). Mangrove ecosystem services and the potential for carbon revenue programmes in Solomon Islands. *Environmental Conservation*, 38(4), 485-496.
- Wildsmith, M. D., Rose, T. H., Potter, I. C., Warwick, R. M., & Clarke, K. R. (2011). Benthic macroinvertebrates as indicators of environmental deterioration in a large microtidal estuary. *Marine Pollution Bulletin*, 62(3), 525-538.
- Xu, L., Yang, D., Greenwood, J., Feng, X., Gao, G., Qi, J., ... & Yin, B. (2020). Riverine and oceanic nutrients govern different algal bloom domain near the Changjiang Estuary in summer. *Journal of Geophysical Research: Biogeosciences*, 125(10), e2020JG005727.
- Youssef, T., & Saenger, P. (1999). Mangrove zonation in Mobbs Bay—Australia. *Estuarine, Coastal and Shelf Science*, 49, 43-50.
- Yun, J. H., Pierrelée, M., Cho, D. H., Kim, U., Heo, J., Choi, D. Y., ... & Kim, H. S. (2021). Transcriptomic analysis of *Chlorella* sp. HS2 suggests the overflow of acetyl-CoA and NADPH cofactor induces high lipid accumulation and halotolerance. *Food and Energy Security*, 10(1), e267.
- Zamani, N. P., Assidqi, K., & Madduppa, H. H. (2018). Study of the tolerance of black sea cucumber *Holothuria leucospilota* to hypoxia stress. *Pertanika Journal of Tropical Agricultural Science*, 41(3).