

DAFTAR PUSTAKA

- Acosta-Motos, J. R., Ortuño, M. F., Bernal-Vicente, A., Diaz-Vivancos, P., Sanchez-Blanco, M. J., & Hernandez, J. A. (2017). Plant responses to salt stress: Adaptive mechanisms. *Agronomy*, 7(1). <https://doi.org/10.3390/agronomy7010018>
- Agus, F., Adimihardja, A., Hardjowigeno, S., Fagi, A. M., & Hartatik, W. (2016). *Tanah sawah dan teknologi pengelolaannya*. Pusat Penelitian dan Pengembangan Tanah dan Agroklimat. <http://repository.pertanian.go.id:8080/server/api/core/bitstreams/b559daa9-0706-46d9-b226-58980db2c583/content>
- Ahmed, S., Sarker, S. K., Friess, D. A., Kamruzzaman, M., Jacobs, M., Islam, M. A., Alam, M. A., Suvo, M. J., Sani, M. N. H., Dey, T., Naabeh, C. S. S., & Pretzsch, H. (2022). Salinity reduces site quality and mangrove forest functions. From monitoring to understanding. *Science of the Total Environment*, 853. <https://doi.org/10.1016/j.scitotenv.2022.158662>
- Ahmed, S., Sarker, S. K., Friess, D. A., Kamruzzaman, M., Jacobs, M., Sillanpää, M., Naabeh, C. S. S., & Pretzsch, H. (2023). Mangrove tree growth is size-dependent across a large-scale salinity gradient. *Forest Ecology and Management*, 537. <https://doi.org/10.1016/j.foreco.2023.120954>
- Alexandra, R.-R. J., Ernesto, M.-P. J., & Tavera, H. (2021). Mangrove restoration in Colombia: Trends and lessons learned. *Forest Ecology and Management*, 496, 1–11. <https://doi.org/10.1016/j.foreco.2021.119414>
- Ardika, R., Utami, S. N. H., & Purwanto, B. H. (2008). Pengaruh seresah dan takaran pupuk P terhadap P tersedia dan serapan P jagung pada Tanah Napalan Bangunjiwo Bantul. *Jurnal Ilmu Tanah Dan Lingkungan*, 8(2), 114–120.

https://repository.ugm.ac.id/32393/1/5._Aplikasi_Soil_Taxonomy_pada_Tanah-Tanah_yang_Berkembang_dari_Bentukan_Karst_Gunung_Kidul_%28Wiyono%2C_Syamsul_Arifin_S_%26_Eko_Hanudin%29.PDF

Auni, A. H., Bachtiar, B., Paembonan, S. A., & Larekeng, S. H. (2020). Growth analysis of mangrove (*Rhizophora apiculata* bl) propagule toward differences in types of water and planting media at Makassar mangrove center. *IOP Conference Series: Earth and Environmental Science*, 575(1), 1–15. <https://doi.org/10.1088/1755-1315/575/1/012137>

Aziz, I., & Khan, M. A. (2001). Experimental assessment of salinity tolerance of *Ceriops tagal* seedlings and saplings from the Indus delta, Pakistan. *Aquatic Botany*, 70(3), 259–268. [https://doi.org/10.1016/S0304-3770\(01\)00160-7](https://doi.org/10.1016/S0304-3770(01)00160-7)

Azman, A., Ng, K. K. S., Ng, C. H., Lee, C. T., Tnah, L. H., Zakaria, N. F., Mahruji, S., Perdan, K., Abdul-Kadir, M. Z., Cheng, A., & Lee, S. L. (2020). Low genetic diversity indicating the threatened status of *Rhizophora apiculata* (Rhizophoraceae) in Malaysia: declined evolution meets habitat destruction. *Scientific Reports*, 10(1), 1–12. <https://doi.org/10.1038/s41598-020-76092-4>

Ball, M. C. (1998). Mangrove species richness in relation to salinity and waterlogging : A case study along the adelaide river floodplain, Northern Australia. *Global Ecology and Biogeography Letters*, 7(1), 73–82. <https://www.jstor.org/stable/2997695>

Banning, N. C., Sawada, Y., Phillips, I. R., & Murphy, D. V. (2014). Amendment of bauxite residue sand can alleviate constraints to plant establishment and nutrient cycling capacity in a water-limited environment. *Ecological Engineering*, 62, 179–187. <https://doi.org/10.1016/j.ecoleng.2013.10.034>

Basyuni, M., Keliat, D. A., Lubis, M. U., Manalu, N. B., Syuhada, A., Wati, R., & Yunasfi. (2018a). Growth and root development of four mangrove seedlings under

- varying salinity. *IOP Conference Series: Earth and Environmental Science*, 130(1), 1–7. <https://doi.org/10.1088/1755-1315/130/1/012027>
- Basyuni, M., Keliat, D. A., Utomo, B., & Amelia, R. (2021a). Effect of different salt concentrations on the growth and biomass of *Rhizophora apiculata* seedlings. *IOP Conference Series: Earth and Environmental Science*, 782(3), 1–6. <https://doi.org/10.1088/1755-1315/782/3/032024>
- Basyuni, M., Lubis, M. U., & Utomo, B. (2021b). Effect of altered salinities on the growth and root performance in *Ceriops tagal* seedlings. *IOP Conference Series: Earth and Environmental Science*, 713(1), 1–7. <https://doi.org/10.1088/1755-1315/713/1/012015>
- Basyuni, M., Manalu, N. B., & Yunasfi. (2021c). Impact of different salt levels on the seedling growth and root development of *Bruguiera sexangula* for the regeneration of mangroves. *IOP Conference Series: Earth and Environmental Science*, 713(1), 1–7. <https://doi.org/10.1088/1755-1315/713/1/012013>
- Basyuni, M., Nuryawan, A., Yunasfi, Putri, L. A. P., & Baba, S. (2018b). Effect of long-term salinity on the growth and biomass of two non-secretors mangrove plants *Rhizophora apiculata* and *Ceriops tagal*. *IOP Conference Series: Earth and Environmental Science*, 122(1). <https://doi.org/10.1088/1755-1315/122/1/012042>
- Belkheiri, O., & Mulas, M. (2013). The effects of salt stress on growth, water relations and ion accumulation in two halophyte *Atriplex* species. *Environmental and Experimental Botany*, 86, 17–28. <https://doi.org/10.1016/j.envexpbot.2011.07.001>
- Blumwald, E., Aharon, G. S., & Apse, M. P. (2000). Sodium transport in plant cells. *Biochimica et Biophysica Acta - Biomembranes*, 1465, 140–151. [https://doi.org/10.1016/S0005-2736\(00\)00135-8](https://doi.org/10.1016/S0005-2736(00)00135-8)

- Budiadi, B., Widiyatno, W., Nurjanto, H. H., Hasani, H., & Jihad, A. N. (2022). Seedling growth and quality of *Avicennia marina* (Forssk.) Vierh. under growth media composition and controlled salinity in an ex situ nursery. *Forests*, *13*, 1–11. <https://doi.org/10.3390/f13050684>
- Cabi, C. (2022). *Rhizophora apiculata* (true mangrove). In *CABI Compendium*. CABI International. <https://doi.org/10.1079/cabicompendium.47504>
- Cheng, H., Inyang, A., Li, C. Da, Fei, J., Zhou, Y. W., & Wang, Y. S. (2020). Salt tolerance and exclusion in the mangrove plant *Avicennia marina* in relation to root apoplastic barriers. *Ecotoxicology*, *29*(6), 676–683. <https://doi.org/10.1007/s10646-020-02203-6>
- Churchman, G. J., Gates, W. P., Theng, B. K. G., & Yuan, G. (2013). Clays and clay minerals for pollution control. *Developments in Clay Science*, *1*, 625–675. [https://doi.org/10.1016/S1572-4352\(05\)01020-2](https://doi.org/10.1016/S1572-4352(05)01020-2)
- Das, S. (2017). Ecological restoration and livelihood: contribution of planted mangroves as nursery and habitat for artisanal and commercial fishery. *World Development*, *94*, 492–502. <https://doi.org/10.1016/j.worlddev.2017.02.010>
- Dashtbozorgi, F., Hedayatiaghmashhadi, A., Dashtbozorgi, A., Ruiz–Agudelo, C. A., Fürst, C., Cirella, G. T., & Naderi, M. (2023). Ecosystem services valuation using InVEST modeling: Case from southern Iranian mangrove forests. *Regional Studies in Marine Science*, *60*. <https://doi.org/10.1016/j.rsma.2023.102813>
- Dat, T. T. H., Cuong, L. C. V., Ha, D. V., Oanh, P. T. T., Nhi, N. P. K., Anh, H. L. T., Quy, P. T., Bui, T. Q., Triet, N. T., & Nhung, N. T. A. (2022). The study on biological activity and molecular docking of secondary metabolites from *Bacillus* sp. isolated from the mangrove plant *Rhizophora apiculata* Blume. *Regional Studies in Marine Science*, *55*. <https://doi.org/10.1016/j.rsma.2022.102583>

- Dharmawan, I. W. E., Suyarso, S., Ulumuddin, Y. I., Prayudha, B., & Pramudji, P. (2020). *Panduan monitoring struktur komunitas mangrove di Indonesia*. PT Media Sains Nasional. [https://kkp.go.id/an-component/media/upload-gambar-pendukung/DitJaskel/publikasi-materi-2/perkembangan-perangkat/Panduan Monitoring fix.pdf](https://kkp.go.id/an-component/media/upload-gambar-pendukung/DitJaskel/publikasi-materi-2/perkembangan-perangkat/Panduan%20Monitoring%20fix.pdf)
- Djamaluddin, R. (2018). *Mangrove : Biologi, Ekologi, Rehabilitasi, dan Konservasi*. Unsrat Press.
- Duarte, C. M., Geertz-Hansen, O., Thampanya, U., Terrados, J., Fortes, M. D., Kamp-Nielsen, L., Borum, J., & Boromthanarath, S. (1998). Relationship between sediment conditions an mangrove *Rhizophora apiculata* seedling growth and nutrient status. *Marine Ecology Progress Series*, 175, 277–283. <https://about.jstor.org/terms>
- Duke, N. C. ., Ball, M. C. ., & Ellison, J. C. . (1988). Factors influencing biodiversity and distributional gradients in mangroves. *Global Ecology and Biogeography*, 7(1), 27–47. <https://www.jstor.org/stable/2997695>
- El-Regal, M. A. A., & Ibrahim, N. K. (2014). Role of mangroves as a nursery ground for juvenile reef fishes in the southern Egyptian Red Sea. *Egyptian Journal of Aquatic Research*, 40(1), 71–78. <https://doi.org/10.1016/j.ejar.2014.01.001>
- Ellison, A. M., Felson, A. J., & Friess, D. A. (2020). Mangrove rehabilitation and restoration as experimental adaptive management. *Frontiers in Marine Science*, 7(327), 1–19. <https://doi.org/10.3389/fmars.2020.00327>
- Fazlioglu, F., & Chen, L. (2020). Introduced non-native mangroves express better growth performance than co-occurring native mangroves. *Scientific Reports*, 10(1), 1–11. <https://doi.org/10.1038/s41598-020-60454-z>
- Feng, X., Xu, S., Li, J., Yang, Y., Chen, Q., Lyu, H., Zhong, C., He, Z., & Shi, S.

- (2020). Molecular adaptation to salinity fluctuation in tropical intertidal environments of a mangrove tree *Sonneratia alba*. *BMC Plant Biology*, 20(1), 1–15. <https://doi.org/10.1186/s12870-020-02395-3>
- Fernandez, C., Saunier, A., Wortham, H., Ormeño, E., Proffit, M., Lecareux, C., Greff, S., Van Tan, D., Tuan, M. S., Hoan, H. D., The, K. B. N., Dhaou, D., Baldy, V., & Melou, A. B. (2023). Mangrove's species are weak isoprenoid emitters. *Estuarine, Coastal and Shelf Science*, 283, 108256. <https://doi.org/10.1016/j.ecss.2023.108256>
- Firdaus, K., Matin, A. M. A., Nurisman, N., & Magdalena, I. (2022). Numerical study for Sunda Strait Tsunami wave propagation and its mitigation by mangroves in Lampung, Indonesia. *Results in Engineering*, 16. <https://doi.org/10.1016/j.rineng.2022.100605>
- Gilmour, D. A., San, N. Van, & Tsechalicha, X. (2000). Rehabilitation of degraded forest ecosystems in Cambodia, Laos PDR, Thailand and Vietnam. In *IUCN Asia*. IUCN Asia. <http://assets.panda.org/downloads/lowermekongregionaloverview.pdf>
- Gomes, J. D., Abrunhosa, F. A., Simith, D. de J. de B., & Asp, N. E. (2013). Mangrove sedimentary characteristics and implications for crab *Ucides cordatus* (Crustacea, Decapoda, Ucididae) distribution in an estuarine area of the Amazonian region. *Acta Amazonica*, 43(4), 481–489. <https://doi.org/10.1590/S0044-59672013000400010>
- Gorman, D., Sikinger, C. E., & Turra, A. (2015). Spatial and temporal variation in the predation risk for hermit crabs in a subtropical bay. *Journal of Experimental Marine Biology and Ecology*, 462, 98–104. <https://doi.org/10.1016/j.jembe.2014.10.009>
- Helaoui, S., Boughattas, I., Mkhinini, M., Ghazouani, H., Jabnoui, H., Kribi-

- Boukhris, S. El, Marai, B., Slimani, D., Arfaoui, Z., & Banni, M. (2023). Biochar application mitigates salt stress on maize plant: Study of the agronomic parameters, photosynthetic activities and biochemical attributes. *Plant Stress*, 9. <https://doi.org/10.1016/j.stress.2023.100182>
- Jian, Z., Lei, L., Ni, Y., Xu, J., Xiao, W., & Zeng, L. (2022). Soil clay is a key factor affecting soil phosphorus availability in the distribution area of Masson pine plantations across subtropical China. *Ecological Indicators*, 144. <https://doi.org/10.1016/j.ecolind.2022.109482>
- Kairo, J. G., & Mangora, M. M. (2020). *Guidelines on mangrove ecosystem restoration for the Western Indian ocean region*. United Nation Environment Programme. www.nairobiconvention.org/
- Keliat, D. A., Basyuni, M., & Utomo, B. (2016). Pengaruh salinitas terhadap pertumbuhan dan perkembangan akar semai mangrove *Rhizophora apiculata* Blume. *Peronema Forestry Science Journal*, 5(4), 49–60. <https://jurnal.usu.ac.id/index.php/PFSJ/article/view/15656>
- Kodikara, K. A. S., Jayatissa, L. P., Huxham, M., Dahdouh-Guebas, F., & Koedam, N. (2018). The effects of salinity on growth and survival of mangrove seedlings changes with age. *Acta Botanica Brasilica*, 32(1), 37–46. <https://doi.org/10.1590/0102-33062017abb0100>
- Kooijman, A. M., Lubbers, I., & van Til, M. (2009). Iron-rich dune grasslands: Relations between soil organic matter and sorption of Fe and P. *Environmental Pollution*, 157(11), 3158–3165. <https://doi.org/10.1016/j.envpol.2009.05.022>
- Krauss, K. W., Lovelock, C. E., McKee, K. L., López-Hoffman, L., Ewe, S. M. L., & Sousa, W. P. (2008). Environmental drivers in mangrove establishment and early development: A review. *Aquatic Botany*, 89(2), 105–127. <https://doi.org/10.1016/j.aquabot.2007.12.014>

- Lambers, H., Chapin, F. S., & Pons, T. L. (2008). Plant physiological ecology. In *Plant Physiological Ecology* (2nd ed.). Springer. https://doi.org/10.1007/978-0-387-78341-3_5
- Lukman, K. M., Uchiyama, Y., & Kohsaka, R. (2021). Sustainable aquaculture to ensure coexistence: Perceptions of aquaculture farmers in East Kalimantan, Indonesia. *Ocean and Coastal Management*, 213. <https://doi.org/10.1016/j.ocecoaman.2021.105839>
- Maathuis, F. J. M., & Amtmann, A. (1999). K⁺ nutrition and Na⁺ toxicity: The basis of cellular K⁺/Na⁺ ratios. *Annals of Botany*, 84, 123–133. <https://doi.org/10.1006/anbo.1999.0912>
- Mancini, P. L., Reis-Neto, A. S., Fischer, L. G., Silveira, L. F., & Schaeffer-Novelli, Y. (2018). Differences in diversity and habitat use of avifauna in distinct mangrove areas in São Sebastião, São Paulo, Brazil. *Ocean and Coastal Management*, 164, 79–91. <https://doi.org/10.1016/j.ocecoaman.2018.02.002>
- Mangora, M. M. (2016). Nutrient enrichment and saline conditions decreases growth and photosynthesis of the mangrove *Heritiera littoralis* Dryand. *Open Journal of Marine Science*, 06(02), 293–301. <https://doi.org/10.4236/ojms.2016.62024>
- Marlianingrum, P. R., Kusumastanto, T., Adrianto, L., & Fahrudin, A. (2021). Valuing habitat quality for managing mangrove ecosystem services in coastal Tangerang District, Indonesia. *Marine Policy*, 133, 1–8. <https://doi.org/10.1016/j.marpol.2021.104747>
- Martínez, Z. M. N., de la Guardia, E., Szelistowski, W. A., & Angulo-Valdés, J. A. (2023). Habitats diversity and MPA regulations are insufficient in promoting healthy coral reef fish assemblages in Punta Francés National Park (Cuba). *Regional Studies in Marine Science*, 60. <https://doi.org/10.1016/j.rsma.2023.102826>

- Matzen, S. L., Lobo, G. P., Fakra, S. C., Kakouridis, A., Nico, P. S., & Pallud, C. E. (2022). Arsenic hyperaccumulator *Pteris vittata* shows reduced biomass in soils with high arsenic and low nutrient availability, leading to increased arsenic leaching from soil. *Science of the Total Environment*, 818. <https://doi.org/10.1016/j.scitotenv.2021.151803>
- Monga, E., Mangora, M. M., & Trettin, C. C. (2022). Impact of mangrove planting on forest biomass carbon and other structural attributes in the Rufiji Delta, Tanzania. *Global Ecology and Conservation*, 35, 1–12. <https://doi.org/10.1016/j.gecco.2022.e02100>
- Munns, R., & Gilliam, M. (2015). Salinity tolerance of crops - what is the cost? *New Phytologist*, 208(3), 668–673. <https://doi.org/10.1111/nph.13519>
- Murdiyarso, D., Purbopuspito, J., Kauffman, J. B., Warren, M. W., Sasmito, S. D., Donato, D. C., Manuri, S., Krisnawati, H., Taberima, S., & Kurnianto, S. (2015). The potential of Indonesian mangrove forests for global climate change mitigation. *Nature Climate Change*, 5(12), 1089–1092. <https://doi.org/10.1038/nclimate2734>
- Nandy, P., Das, S., Ghose, M., & Spooner-Hart, R. (2007). Effects of salinity on photosynthesis, leaf anatomy, ion accumulation and photosynthetic nitrogen use efficiency in five Indian mangroves. *Wetlands Ecology and Management*, 15(4), 347–357. <https://doi.org/10.1007/s11273-007-9036-8>
- Nijamdeen, T. W. G. F. M., Ratsimbazafy, H. A., Kodikara, K. A. S., Nijamdeen, T. W. G. F. A., Thahira, T., Peruzzo, S., Guebas, F. D., & Hüge, J. (2023). Mangrove management in Sri Lanka and stakeholder collaboration: A social network perspective. *Journal of Environmental Management*, 330, 1–18. <https://doi.org/10.1016/j.jenvman.2022.117116>
- Noor, R. Y., Khazali, M., & Suryadiputra, I. N. . (1999). *Panduan pengenalan*

mangrove di Indonesia. PHKA/WI-IP. <https://unpad.ikabio.or.id/buku/panduan-pengenalan-mangrove-di-indonesia/>

Nordhaus, I., Toben, M., & Fauziyah, A. (2019). Impact of deforestation on mangrove tree diversity, biomass and community dynamics in the Segara Anakan lagoon, Java, Indonesia: A ten-year perspective. *Estuarine, Coastal and Shelf Science*, 227. <https://doi.org/10.1016/j.ecss.2019.106300>

Onuf, C. P., Teal, J. M., & Valiela, I. (1977). Interactions of nutrients, plant growth and herbivory in a mangrove ecosystem. *Ecology*, 58(3), 514–526. <https://doi.org/10.2307/1939001>

Ounanian, K., Carballo-Cárdenas, E., van Tatenhove, J. P. M., Delaney, A., Papadopoulou, K. N., & Smith, C. J. (2018). Governing marine ecosystem restoration: the role of discourses and uncertainties. *Marine Policy*, 96, 136–144. <https://doi.org/10.1016/j.marpol.2018.08.014>

Padhy, S. R., Bhattacharyya, P., Dash, P. K., Nayak, S. K., Parida, S. P., Baig, M. J., & Mohapatra, T. (2022). Elucidation of dominant energy metabolic pathways of methane, sulphur and nitrogen in respect to mangrove-degradation for climate change mitigation. *Journal of Environmental Management*, 303. <https://doi.org/10.1016/j.jenvman.2021.114151>

Parida, A. K., & Das, A. B. (2005). Salt tolerance and salinity effects on plants: A review. *Ecotoxicology and Environmental Safety*, 60, 324–349. <https://doi.org/10.1016/j.ecoenv.2004.06.010>

Parida, A. K., Das, A. B., & Mitra, B. (2004). Effects of salt on growth, ion accumulation, photosynthesis and leaf anatomy of the mangrove, *Bruguiera parviflora*. *Trees - Structure and Function*, 18(2), 167–174. <https://doi.org/10.1007/s00468-003-0293-8>

- Parida, A. K., & Jha, B. (2010). Salt tolerance mechanisms in mangroves: a review. *Trees - Structure and Function*, 24(2), 199–217. <https://doi.org/10.1007/s00468-010-0417-x>
- Piash, M. I., Iwabuchi, K., & Itoh, T. (2022). Synthesizing biochar-based fertilizer with sustained phosphorus and potassium release: Co-pyrolysis of nutrient-rich chicken manure and Ca-bentonite. *Science of the Total Environment*, 822. <https://doi.org/10.1016/j.scitotenv.2022.153509>
- Pit, I. R., Wassen, M. J., Kooijman, A. M., Dekker, S. C., Griffioen, J., Arens, S. M., & van Dijk, J. (2020). Can sand nourishment material affect dune vegetation through nutrient addition? *Science of the Total Environment*, 725. <https://doi.org/10.1016/j.scitotenv.2020.138233>
- Polidoro, B. A., Carpenter, K. E., Collins, L., Duke, N. C., Ellison, A. M., Ellison, J. C., Farnsworth, E. J., Fernando, E. S., Kathiresan, K., Koedam, N. E., Livingstone, S. R., Miyagi, T., Moore, G. E., Nam, V. N., Ong, J. E., Primavera, J. H., Salmo, S. G., Sanciangco, J. C., Sukardjo, S., ... Yong, J. W. H. (2010). The loss of species: Mangrove extinction risk and geographic areas of global concern. *PLoS ONE*, 5(4). <https://doi.org/10.1371/journal.pone.0010095>
- Pranchai, A. (2017). Regeneration and self-thinning processes in a restored *Rhizophora apiculata* plantation in southern Thailand. *Agriculture and Natural Resources*, 51(5), 390–394. <https://doi.org/10.1016/j.anres.2017.11.004>
- Priyono, A. (2010). Panduan praktis teknik rehabilitasi mangrove di kawasan pesisir Indonesia. In *KeSEMat*. KeSEMat. <https://doi.org/10.1111/j.1365-2230.2009.03481.x>
- Quevedo, J. M. D., Lukman, K. M., Ulumuddin, Y. I., Uchiyama, Y., & Kohsaka, R. (2023). Applying the DPSIR framework to qualitatively assess the globally important mangrove ecosystems of Indonesia: A review towards evidence-based

- polycymaking approaches. *Marine Policy*, *147*, 1–16.
<https://doi.org/10.1016/j.marpol.2022.105354>
- Rahim, S., & Baderan, D. W. K. (2017). *Hutan mangrove dan pemanfaatannya* (M. S. Hamidun (ed.)). Deepublish Publisher.
- Randy, A. F., Hutomo, M., & Purnama, H. (2015). Collaborative efforts on mangrove restoration in Sedari Village, Karawang District, West Java Province. *Procedia Environmental Sciences*, *23*, 48–57. <https://doi.org/10.1016/j.proenv.2015.01.008>
- Richards, D. R., & Friess, D. A. (2016). Rates and drivers of mangrove deforestation in Southeast Asia, 2000-2012. *Proceedings of the National Academy of Sciences of the United States of America*, *113*(2), 344–349.
<https://doi.org/10.1073/pnas.1510272113>
- Robertson, A. I., & Alongi, D. M. (1992). *Tropical mangrove ecosystems*. Wiley Online Library DOI. <https://doi.org/10.1029/CE041>
- Rojas, R. V. (2022). Soils for nutrition: state of the art. In *FAO-GSP Secretariat* (Isabelle V). FAO-GSP Secretariat. <https://doi.org/10.4060/cc0900en>
- Saddhe, A. A., Jamdade, R. A., & Kumar, K. (2017). Evaluation of multilocus marker efficacy for delineating mangrove species of West Coast India. *PLoS ONE*, *12*(8), 1–15. <https://doi.org/10.1371/journal.pone.0183245>
- Saddhe, A. A., & Kumar, K. (2019). Molecular cloning, expression analysis, and heterologous characterization of a novel sodium/hydrogen exchanger from a mangrove plant, *Rhizophora apiculata*. *Plant Gene*, *19*.
<https://doi.org/10.1016/j.plgene.2019.100192>
- Saddhe, A. A., Malvankar, M. R., & Kumar, K. (2018). Selection of reference genes for quantitative real-time PCR analysis in halophytic plant *Rhizophora apiculata*. *PeerJ*, *6*, 1–16. <https://doi.org/10.7717/peerj.5226>

- Schneider, S. C., & Skarbøvik, E. (2022). Ecological status assessment of clay rivers with naturally enhanced water phosphorus concentrations. *Environmental Advances*, 9. <https://doi.org/10.1016/j.envadv.2022.100279>
- Seedo, K. A., Abido, M. S., Salih, A., & Abahussain, A. (2018). Morphophysiological traits of gray mangrove (*Avicennia marina* (Forsk.) Vierh.) at different levels of soil salinity. *International Journal of Forestry Research*, 944(1). <https://doi.org/10.1155/2018/7404907>
- Seki, M., Ishida, J., Narusaka, M., Fujita, M., Nanjo, T., Umezawa, T., Kamiya, A., Nakajima, M., Enju, A., Sakurai, T., Satou, M., Akiyama, K., Yamaguchi-Shinozaki, K., Carninci, P., Kawai, J., Hayashizaki, Y., & Shinozaki, K. (2002). Monitoring the expression pattern of around 7000 *Arabidopsis* genes under drought, cold and high-salinity stresses using a full-length cDNA microarray. *Functional and Integrative Genomics*, 31(3), 279–292. <https://doi.org/10.1007/s10142-002-0070-6>
- Siddique, M. R. H., Saha, S., Salekin, S., & Mahmood, H. (2017). Salinity strongly drives the survival, growth, leaf demography, and nutrient partitioning in seedlings of *Xylocarpus granatum* J. König. *IForest*, 10(5), 851–856. <https://doi.org/10.3832/ifor2382-010>
- Sidik, F., Lawrence, A., Wagey, T., Zamzani, F., & Lovelock, C. E. (2023). Blue carbon: A new paradigm of mangrove conservation and management in Indonesia. *Marine Policy*, 147, 1–9. <https://doi.org/10.1016/j.marpol.2022.105388>
- Silva, W. D., & Amarasinghe, M. (2021). Response of mangrove plant species to a saline gradient: Implications for ecological restoration. *Acta Botanica Brasilica*, 35(1), 151–160. <https://doi.org/10.1590/0102-33062020ABB0170>
- Sinsin, L. C. B., Salako, K. V., Tohoun, R. J., & Glèlè Kakaï, R. (2022). Survival, growth, and productivity of *Rhizophora racemosa* transplanted in natural

- ecosystems: Implications for mangrove restoration. *Wetlands*, 42(6).
<https://doi.org/10.1007/s13157-022-01583-1>
- Sobrado, M. A., & Ewe, S. M. L. (2006). Ecophysiological characteristics of *Avicennia germinans* and *Laguncularia racemosa* coexisting in a scrub mangrove forest at the Indian River Lagoon, Florida. *Trees - Structure and Function*, 20(6), 679–687.
<https://doi.org/10.1007/s00468-006-0083-1>
- Sofy, M. R., Elhindi, K. M., Farouk, S., & Alotaibi, M. A. (2020). Zinc and paclobutrazol mediated regulation of growth, upregulating antioxidant aptitude and plant productivity of pea plants under salinity. *Plants*, 9(9), 1–15.
<https://doi.org/10.3390/plants9091197>
- Song, S., Ding, Y., Li, W., Meng, Y., Zhou, J., Gou, R., Zhang, C., Ye, S., Saintilan, N., Krauss, K. W., Crooks, S., Lv, S., & Lin, G. (2023). Mangrove reforestation provides greater blue carbon benefit than afforestation for mitigating global climate change. *Nature Communications*, 14(1), 1–11.
<https://doi.org/10.1038/s41467-023-36477-1>
- Suárez, N., & Sobrado, M. A. (2000). Adjustments in leaf water relations of mangrove (*Avicennia germinans*) seedlings grown in a salinity gradient. *Tree Physiology*, 20(4), 277–282. <https://doi.org/10.1093/treephys/20.4.277>
- Sukkaew, W., Thanachit, S., Anusontpornperm, S., & Kheoruenromne, I. (2022). Response of cassava (*Manihot esculenta* Crantz) to calcium and potassium in a humid tropical upland loamy sand soil. *Annals of Agricultural Sciences*, 67(2), 204–210. <https://doi.org/10.1016/j.aoas.2022.12.001>
- Thao, N. P., Linh, K. T. P., Quan, N. H., Trung, V. T., Binh, P. T., Cuong, N. T., Nam, N. H., & Van Thanh, N. (2022). Cytotoxic metabolites from the leaves of the mangrove *Rhizophora apiculata*. *Phytochemistry Letters*, 47, 51–55.
<https://doi.org/10.1016/j.phytol.2021.10.014>

- Tomlinson, P. B. (1986). The botany of mangroves. In *The botany of mangroves*. (2nd ed.). Cambridge University Press. <https://doi.org/10.2307/4109956>
- Trench, C., Thomas, S. L., Thorney, D., Maddix, G. M., Francis, P., Small, H., Machado, C. B., Webber, D., Tonon, T., & Webber, M. (2022). Application of stranded pelagic sargassum biomass as compost for seedling production in the context of mangrove restoration. *Frontiers in Environmental Science*, *10*. <https://doi.org/10.3389/fenvs.2022.932293>
- Tse, P., Nip, T. H. M., & Wong, C. K. (2008). Nursery function of mangrove: A comparison with mudflat in terms of fish species composition and fish diet. *Estuarine, Coastal and Shelf Science*, *80*(2), 235–242. <https://doi.org/10.1016/j.ecss.2008.08.002>
- Uddin, M. K., & Juraimi, A. S. (2013). Salinity tolerance turfgrass: History and prospects. *The Scientific World Journal*, *2013*. <https://doi.org/10.1155/2013/409413>
- Unnikrishnan, B. V., Binitha, N. K., & Mohan, M. (2022). Distinct microbiome and nutrient status of a saline hydromorphic soil under rice cultivation in comparison with laterite soil. *Ecological Genetics and Genomics*, *24*. <https://doi.org/10.1016/j.egg.2022.100133>
- Usman, A. H. A., Hartoyo, A. P. P., & Kusmana, C. (2022). The growth performance of *Rhizophora apiculata* using the cut-propagule method for mangrove rehabilitation in Indonesia. *Biodiversitas Journal of Biological Diversity*, *23*(12), 6366–6378. <https://doi.org/10.13057/biodiv/d231234>
- Wang, W. Q., Ke, L., Tam, N. F. Y., & Wong, Y. S. (2002). Changes in the main osmotica during the development of *Kandelia candel* hypocotyls and after mature hypocotyls were transplanted in solutions with different salinities. *Marine Biology*, *141*(6), 1029–1034. <https://doi.org/10.1007/s00227-002-0951-1>

- Winarni, N. L., Pradana, D. H., Ayu jawi, S. A., Zackeisha, N., Anugra, B. G., Wulandari, Y., & Syachrudin, D. (2022). Problems in paradise: Mangrove bird communities impacted by litter in Jakarta Bay, Indonesia. *Ocean and Coastal Management*, 225, 1–11. <https://doi.org/10.1016/j.ocecoaman.2022.106223>
- Wiyono, W., Siradz, S. A., & Hanudin, E. (2006). Aplikasi soil taxonomy pada tanah-tanah yang berkembang dari bentukan karst Gunung Kidul. *Ilmu Tanah Dan Lingkungan*, 6(1), 13–26. https://repository.ugm.ac.id/32393/1/5._Aplikasi_Soil_Taxonomy_pada_Tanah-Tanah_yang_Berkembang_dari_Bentukan_Karst_Gunung_Kidul_%28Wiyono%2C_Syamsul_Arifin_S_%26_Eko_Hanudin%29.PDF
- Xu, S., He, Z., Guo, Z., Zhang, Z., Wyckoff, G. J., Greenberg, A., Wu, C. I., & Shi, S. (2017). Genome-wide convergence during evolution of mangroves from woody plants. *Molecular Biology and Evolution*, 34(4), 1008–1015. <https://doi.org/10.1093/molbev/msw277>
- Yamamoto, Y. (2023). Living under ecosystem degradation: Evidence from the mangrove–fishery linkage in Indonesia. *Journal of Environmental Economics and Management*, 118, 1–23. <https://doi.org/10.1016/j.jeem.2023.102788>
- Yanti, M., Indriyanto, I., & Duryat, D. (2016). Pengaruh zat alelopati dari Alang-Alang terhadap pertumbuhan semai tiga spesies Akasia. *Jurnal Sylva Lestari*, 4(2), 27. <https://doi.org/10.23960/jsl2427-38>
- Yeo, A. (1998). Molecular biology of salt tolerance in the context of whole-plant physiology. *Journal of Experimental Botany*, 49(323), 915–929. <https://doi.org/10.1093/jxb/49.323.915>
- Yoshikai, M., Nakamura, T., Suwa, R., Sharma, S., Rollon, R., Yasuoka, J., Egawa, R., & Nadaoka, K. (2022). Predicting mangrove forest dynamics across a soil salinity gradient using an individual-based vegetation model linked with plant hydraulics.

Biogeosciences, 19(6), 1813–1832. <https://doi.org/10.5194/bg-19-1813-2022>

Zeng, Y., Friess, D. A., Sarira, T. V., Siman, K., & Koh, L. P. (2021). Global potential and limits of mangrove blue carbon for climate change mitigation. *Current Biology*, 31(8), 1737–1743. <https://doi.org/10.1016/j.cub.2021.01.070>