

DAFTAR PUSTAKA

- Abmi, R., Asbar, & Rustam. 2023. Analisis Produksi dan Laju Dekomposisi Serasah pada Jenis Mangrove *Avicennia alba* dan *Rhizophora mucronata* di Kelurahan Takkalala Kecamatan Wara Selatan Kota Palopo. *Jurnal Ilmiah Wahana Laut Lestari*, 1(1): 52–64.
- Ahmed, S., S. K. Sarker, D. A. Friess, Md. Kamruzzaman, M. Jacobs, Md. A. Islam, Md. A. Alam, M. J. Suvo, Md. N. H. Sani, T. Dey, C. S. S. Naabeh, & H. Pretzsch. 2022. Salinity Reduces Site Quality and Mangrove Forest Function. From Monitoring to Understanding. *Science of the Total Environment*, 853.
- Aida, G. R., W. Yusli, A. Fahrudin, & M. M. Kamal. 2014. Produksi Serasah Mangrove di Pesisir Tangerang, Banten. *Jurnal Ilmu Pertanian Indonesia*, 19(2): 91–97.
- Akram, H., S. Hussain, P. Mazumdar, K. O. Chua, T. E. Butt, & J. A. Harikrishna. 2023. Mangrove Health: A Review of Functions, Threats, and Challenges Associated with Mangrove Management Practices. *Forest*, 14: 1698.
- Almahasheer, H., O. Serrano, C. M. Duarte, A. Arias-Ortiz, P. Masque, & X. Irigoien. 2017. Low Carbon Sink Capacity of Red Sea Mangroves. *Scientific Reports*, 7(1): 1–10.
- Alongi, D. M. 2014. Carbon Cycling and Storage in Mangrove Forest. *Annual Review of Marine Science*, 6: 195–219.
- Alwidakdo, A., C. D. Budi, & E. Santoso. 2014. Effect of Mangrove Restoration on Coastal Biodiversity and Carbon Sequestration. *Journal of Coastal Ecology*, 10(2): 123–135.
- Andrianto, F., B. Afif, & B. Y. Slamet. 2015. Produksi dan Laju Dekomposisi Serasah Mangrove (*Rhizophora* sp.) di Desa Durian dan Desa Batu Menyan Kecamatan Padang Cermin Kabupaten Pesawaran. *Jurnal Sylva Lestari*, 3(1): 9–20.
- Anugriati, et al. 2013. *Distribusi Spasial Karakteristik Kimia Tanah Tambak di Kabupaten Demak, Provinsi Jawa Tengah*. Fakultas Ilmu Perikanan, Universitas Hasanuddin. Makassar.
- Aprianis, Y. 2011. Produksi dan Laju Dekomposisi Serasah *Acacia crassicarpa*. Cunn. PT. Arara Abadi. *BPHPS Riau*, 4(1): 41–47.
- Asia. 2017. Karakteristik Hutan Mangrove. *Buletin Matric*, 14(2): 17–22.
- Ati, R. N. A., A. Rustam, T. L. Kepel, N. Sudirman, M. Astrid, A. Daulat, P. Mangindaan, H. L. Salim, & A. A. Hutahaean. 2014. Stok Karbon dan Struktur Komunitas Mangrove sebagai Blue Carbon di Tanjung Lesung, Banten. *Jurnal Segara*, 10(2): 98–171.
- Badan Standardisasi Instrumen LHK. 2022. *Standar Pemulihan Fungsi Ekosistem Mangrove*, pp. 1–10.
- Bengen, D. G. 2004. *Mengenal dan Memelihara Mangrove*. Pusat Kajian Sumber Daya Pesisir dan Lautan IPB. Bogor.
- Brown, S., J. Sathaye, M. Cannell, & P. E. Kauppi. 1996. *Mitigation of Carbon Emissions to the Atmosphere by Forest Management*. The Commonwealth Forestry Review, pp. 80–91.

- Buillon, S., A. V. Borges, E. Castaneda-Moya, K. Diele, T. Dittmar, N. C. Duke, E. Kristensen, et al. 2008. Mangrove Production and Carbon Sinks: A Revision of Global Budget Estimates. *Global Biogeochemical Cycles*, 22(2): 1–12.
- Bunt, J. S., & W. T. Williams. 1981. *Vegetational Relationship in The Mangroves of Tropical Australia*. Marine Ecology Progress Series, pp. 349–359.
- Chapman, V. J. 1977. *Wet Coastal Ecosystems. Ecosystems of the World: 1*. Elsevier Scientific Publishing Company, p. 428.
- Chen, J., G. Chen, Y. Gu, H. Zhu, & Y. Ye. 2020. Fate of Leaf Litter in Restored *Kandelia obovata* (SL) Mangrove Forests with Different Ages in Jiulong River Estuary, China. *Restoration Ecology*, 28(2): 369–377.
- Cherrington, E. A., R. E. Griffin, E. R. Anderson, B. E. Hernandez Sandoval, A. I. Flores-Anderson, R. E. Muench, K. N. Markert, E. C. Adams, A. S. Limaye, & D. E. Irwin. 2020. Use of Public Earth Observation Data for Tracking Progress in Sustainable Management of Coastal Forest Ecosystems in Belize, Central America. *Remote Sensing of Environment*, 245.
- Christensen, S. M., P. Tarp, & C. N. Hjortso. 2008. Mangrove Forest Management Planning in Coastal Buffer and Conservation Zones, Vietnam: A Multimethodological Approach Incorporating Multiple Stakeholders. *Ocean & Coastal Management*, 51: 712–726.
- Dali, G. L. A. 2023. Litter Production in Two Mangrove Forests Along the Coast of Ghana. *Heliyon*, 9.
- Destiana, H. D. 2021. Laju Dekomposisi Serasah di Lahan Mangrove Rehabilitasi. *Bioedusains: Jurnal Pendidikan Biologi dan Sains*, 4(1): 62–73.
- Dewi, I. S., T. Pratono, A. Arman, & A. F. Koropitan. 2020. Laju Akumulasi Sedimen Mangrove di Tanjung Batu, Kepulauan Derawan Kalimantan Timur. *Jurnal Ilmu dan Teknologi Kelautan Tropis*, 12(2): 327–340.
- Dharmawan, I. W. E., N. P. Zamani, & H. H. Madduppa. 2016. Laju Dekomposisi Serasah Daun di Ekosistem Bakau Pulau Kelong, Kabupaten Bintan. *Jurnal Oseanologi dan Limnologi di Indonesia*, 1(1): 1–10.
- Donato, D. C., J. B. Kauffman, D. Murdiyarto, S. Kurnianto, M. Stidham, & M. Kanninen. 2011. Mangroves Among the Most Carbon-Rich Forests in the Tropics. *Nature Geoscience*, 4: 293–297.
- Duarte, C. M., I. J. Losada, I. E. Hendriks, I. Mazarrasa, & N. Marba. 2013. The Role of Coastal Plant Communities for Climate Change Mitigation and Adaptation. *Nature Climate Change*, 3(11): 961–968.
- Dui, M. K., N. I. Wijaya, & N. Sa'adah. 2022. Produksi dan Laju Dekomposisi Serasah Daun Mangrove di Kawasan Wisata Mangrove Gunung Anyar Surabaya. *J-Tropimar*, 4(1): 16–28.
- Duke, N. C. 2006. *Rhizophora apiculata*, *R. mucronata*, *R. stylosa*, *R. x annamalai*, *R. x lamarckii* (Indo-West Pacific stilt Mangroves), ver. 2.1. In: Elevitch C. R. Species Profiles for Pacific Island Agroforestry. Permanent Agriculture Resources (PAR), Holualoa, Hawaii.
- English, S., C. Wilkinson, & V. Baker. 1994. *Survey Manual for Tropical Marine Resources*. Townsville: Australian Institute of Marine Science.
- Ezcurra, P., E. Ezcurra, P. P. Garcillan, M. T. Costa, & O. Aburto-Oropeza. 2016. Coastal Landforms and Accumulation of Mangrove Peat Increase Carbon Sequestration and Storage. *Proceedings of the National Academy of Sciences of the United States of America (PNAS)*, 113(16): 4404–4409.

- Farhaby, A. M., & A. U. Utama. 2019. Analisis Produksi Serasah Mangrove di Pantai Mang Kalok Kabupaten Bangka. *Jurnal Enggano*, 4(2).
- Farid, S. M., & S. A. Gobel. 2023. Analisis Produktivitas Serasah Hutan Mangrove di Desa Tutuwoto Kecamatan Anggrek Kabupaten Gorontalo Utara. *Jambura Edu Biosfer Journal*, 5(2): 36–42.
- Fiqa, A. P., & S. Sofiah. 2010. *Pendugaan Laju Dekomposisi dan Produksi Biomassa Serasah pada Beberapa Lokasi di Kebun Raya Purwodadi*. UPT Balai Konservasi Tumbuhan Kebun Raya Purwodadi.
- Firaswan, A., R. Aryandari, A. Reza, N. Faizah, N. Rachman, A. F. Ramadhani, & M. S. Andalas. 2015. Isolation Hope and Threat of Mangrove Restoration Program in Bogowonto Lagoon, Yogyakarta-Indonesia (2002–2014). ICBS Conference Proceedings, International Conference on Biological Science. *KnE Life Sciences*, 1–13.
- Frederika, Y. C., Y. N. Ihsan, & I. Riyantini. 2021. Nutrient Profile and Mangrove Vegetation Composition in the Coastal Waters of Indramayu. *Jurnal Ilmu Kelautan*, 7(1): 42–51.
- Friess, D. A. 2017. J. G. Watson, Inundation Classes, and Their Influence on Paradigms in Mangrove Forest Ecology. *Wetlands*, 37(4): 603–613.
- Giesen, W., S. Wulffraat, M. Zieren, & L. Scholten. 2006. *Mangrove Guidebook for Southeast Asia*. RAP Publication. Dharmasarn Co., Ltd.
- Giri, C. 2021. Recent Advancement in Mangrove Forest Mapping and Monitoring of the World Using Earth Observation Satellite Data. *Remote Sensing*, 13(563): 1–6.
- Gladstone-Gallagher, R. V., C. J. Lundquist, & C. A. Pilditch. 2014. Mangrove (*Avicennia marina* Subsp. *australasica*) Litter Production and Decomposition in a Temperate Estuary. *NZ J Mar Freshwater Res.*, 48(1): 24–37.
- Hamilton, S. E., & J. Lovette. 2015. Ecuador’s Mangrove Forest Carbon Stocks: A Spatiotemporal Analysis of Living Carbon Holdings and Their Depletion Since the Advent of Commercial Aquaculture. *Plos One*, 1093: 1–14.
- Hardianto, Karmila, Yulma. 2015. Produktivitas dan Laju Dekomposisi Serasah Mangrove di Kawasan Konservasi Mangrove dan Bekantan (KKMB) Kota Tarakan Kalimantan Utara. *Jurnal Harpodon*, 8(1): 43–50.
- Hastuti, E. D., & R. Budihastuti. 2016. Analysis on The Absolute Growth Rate of *Rhizophora mucronata* Seedling in Silvicultural Pond Canals by The Influence of Initial Condition and Changes of Environment Quality. *Biosaintifika: Journal of Biology & Biology Education*, 8(1): 56–63.
- Heriyanto, N. M., & E. Subiandono. 2012. Composition and Structure, Biomass, and Potential of Carbon Content in Mangrove Forest at National Park Alas Purwo. *Jurnal Penelitian Hutan dan Konservasi Alam*, 9(1): 23–32.
- Heriyanto, T., & B. Amin. 2017. Analisis Biomassa dan Cadangan Karbon pada Ekosistem Mangrove Desa Malang Rapat Kabupaten Bintan. *Berkala Perikanan Terubuk*, 45(1): 24–34.
- Hernandez, J. O., & B. B. Park. 2024. Litterfall Production and Decomposition in Tropical and Subtropical Mangroves: Research Trends and Interacting Effects of Biophysical, Chemical, and Anthropogenic Factors. *Wetlands*, 44(2): 1-23.

- Hiraishi, T., T. Krug, K. Tanabe, N. Srivastava, J. Baasansuren, M. Fukuda, T. G. Troxler. 2014. *2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands*. Switzerland: IPCC.
- Hopkins, W. G., & N. P. A. Huner. 2009. *Introduction to Plant Physiology* (4th ed.). Hoboken, NJ: John Wiley & Sons.
- Hoppe-Speer, S. C. L., J. B. Adams, A. Rajkaran, & D. F. Bailey. 2011. The Response of the Red Mangrove *Rhizophora mucronata* Lam. to Salinity and Inundation in South Africa. *Aquatic Botany*, 95(2): 71–76.
- Hudoyo, F., S. Widada, L. Maslukah, B. Rochaddi, A. Wirasatriya, & N. S. Adi. 2021. Studi Analisa Pasang Surut, Distribusi Air Tanah Payau dan Sedimen serta Pengaruhnya terhadap Pola Sebaran Mangrove di Kepulauan Karimunjawa. *Indonesian Journal of Oceanography (IJOCE)*, 3(4): 78–87.
- Ilman, M., P. Dargusch, P. Dart, & Onrizal. 2016. A Historical Analysis of the Drivers of Loss and Degradation of Indonesia's Mangroves. *Land Use Policy*, 54: 448–459.
- Irawan, U. S., & E. Purwanto. 2020. *Pengukuran dan Pendugaan Cadangan Karbon pada Ekosistem Hutan Gambut dan Mineral*. Yayasan Tropenbos Indonesia, Bogor.
- Irsadi, A., N. K. T. Martuti, M. Abdullah, & L. N. Hadiyanti. 2022. Abrasion and Accretion Analysis in Demak, Indonesia Coastal for Mitigation and Environmental Adaptation. *Nature Environment and Pollution*, 21(2): 633–641.
- Kamruzzaman, M., K. Basak, S. K. Paul, S. Ahmed, & A. Osawa. 2019. Litterfall Production, Decomposition and Nutrient Accumulation in Sundarbans Mangrove Forest, Bangladesh. *Forest Science and Technology*, 15(1): 24–32.
- Kathiresan, K. 2002. Why are Mangroves Degrading?. *Current Science*, 83(10): 1246–1249.
- Kauffman, J. B., & D. Donato. 2012. Protocols for the Measurement, Monitoring and Reporting of Structure, Biomass and Carbon Stocks in Mangrove Forests. *Center for International Forestry Research Center (CIFOR)*, p. 86.
- Kauffman, J. B., V. B. Arifanti, H. H. Trejo, M. C. G. Gracia, J. Norfolk, M. Cifuentes, D. Hadriyanto, & D. Murdiyarso. 2017. The Jumbo Carbon Footprint of a Shrimp: Carbon Losses from Mangrove Deforestation. *Frontiers in Ecology and the Environment*, p. 15.
- Kauffman, J. B., A. F. Bernardino, T. O. Ferreira, L. R. Giovannoni, L. E. O. Gomes, D. J. Romero, L. C. Z. Jimenez, & F. Ruiz. 2018. Carbon Stocks of Mangroves and Salt Marshes of the Amazon Region, Brazil. *Biology Letters*, 14: 1–4.
- Kordi, M. G. H. K. 2012. *Ekosistem Mangrove: Potensi, Fungsi, dan Pengelolaan*. Rineka Cipta. Jakarta.
- Lal, R. 2005. Soil Carbon Sequestration in Natural and Managed Tropical Forest Ecosystems. *Journal of Sustainable Forestry*, 21(1): 1–30.
- Lang, T., X. Ke, J. Wei, M. Hussain, M. Li, C. Gao, M. Jiang, Y. Wang, Y. Fu, K. Wu, W. Zhang, N. F. Tam, & H. Zhou. 2024. Dynamics of Tannin Variations in Mangrove Leaf Litter Decomposition and Their Effects on Environmental Nitrogen and Microbial Activity. *Science of The Total Environment*, 908: 168150.

- Lestariningsih, W. A. N., Soenardjo, R. Pribadi. 2018. Estimasi Cadangan Karbon pada Kawasan Mangrove di Desa Timbulsloko, Demak, Jawa Tengah. *Buletin Oseanografi Marina*, 7(2): 121–130.
- Liu, H., H. Ren, D. Hui, W. Wang, B. Liao, & Q. Cao. 2014. Carbon Stocks and Potential Carbon Storage in the Mangrove Forests of China. *Journal of Environmental Management*, 133: 86–93.
- Lunstrum, A., & Chen, L. 2014. Soil Carbon Stocks and Accumulation in Young Mangrove Forests. *Soil Biology and Biochemistry*, 75: 223–232.
- Matsui, N., J. Suekuni, S. Havanond, A. Nishimiya, J. Yanai, & T. Kosaki. 2008. Determination of Soil-Related Factors Controlling Initial Mangrove (*Rhizophora apiculata* BL.) Growth in an Abandoned Shrimp Pond. *Soil Science and Plant Nutrition*, 54(2): 301–309.
- McLeod, E., G. L. Chmura, S. Bouillon, R. Salm, M. Bjork, C. M. Duarte, C. E. Lovelock, W. H. Schlesinger, & B. R. Silliman. 2011. A Blueprint for Blue Carbon: Toward an Improved Understanding of the Role of Vegetated Coastal Habitats in Sequestering CO₂. *Frontiers in Ecology and the Environment*, 9(10): 552–560.
- Meadows, P. S., & J. L. Campbell. 1978. *Marine Science*. London: Springer.
- Metcalfe, K. N., D. C. Franklin, & K. A. McGuinness. 2011. Mangrove Litterfall: Extrapolation from Traps to a Large Tropical Macrotidal Harbour. *Estuarine, Coastal, and Shelf Science*, 95(1): 245–252.
- Mughofar, A., M. Masykuri, & P. Setyono. 2018. Zonasi dan Komposisi Vegetasi Hutan Mangrove Pantai Cengkong Desa Karanggandu Kabupaten Trenggalek Provinsi Jawa Timur. *Jurnal Pengelolaan Sumberdaya Alam dan Lingkungan*, 8(1): 77–85.
- Murdiyarto, D., D. Donato, J. B. Kauffman, S. Kurnianto, M. Stidham, & M. Kanninen. 2010. Carbon Storage in Mangrove and Peatland Ecosystems: A Preliminary Account from Plots. *CIFOR Working Paper*, 48: 1–35.
- Nahdi, M. S., & A. P. Kurniawan. 2015. Vegetation Species Abundance in Mangrove Ecosystem of Pasir Mendit at Bogowonto Lagoon Kulon Progo Yogyakarta. *Journal of Biological Researches*, 19(1): 32–37.
- Nugraha, W. A. 2010. Produksi Serasah (Guguran Daun) pada Berbagai Jenis Mangrove di Bangkalan. *Jurnal Kelautan: Indonesian Journal of Marine Science and Technology*, 3(1): 66–69.
- Palufi, G. E., H. Hamdani, R. I. Pratama, & A. Sahidin. 2019. Success Rate of Mangrove Planting Based on Mangrove Morphology at Pramuka Island, Kepulauan Seribu National Park, Indonesia. *World News of Natural Sciences*, 27: 73–84.
- Panjaitan, A. Y. Siregar, & Tajuddin. 2014. *Laju Dekomposisi Serasah Daun *Rhizophora mucronata* dan Kontribusinya terhadap Nutrisi di Perairan Pantai Serambi Deli Kecamatan Pantai Labu, Sumatera Utara*. Skripsi. Fakultas Pertanian, Universitas Sumatera Utara.
- Parida, A., A. B. Das, Y. Sanada, & P. Mohanty. 2004. Effects of Salinity on Biochemical Components of The Mangrove, *Aegiceras corniculatum*. *Aquatic Botany*, 80(2): 77–87.
- Pawar, P. R. 2013. Monitoring of Impact of Anthropogenic Inputs on Water Quality of Mangrove Ecosystem of Uran, Navi Mumbai, West Coast of India. *Marine Pollution*, 75(1): 291–300.

- Polidoro, B. A., K. E. Carpenter, L. Collins, N. C. Duke, A. M. Ellison, J. C. Ellison. 2010. The Loss of Species: Mangrove Extinction Risk and Geographic Areas of Global Concern. *PLoS One*, 5(4): 1–10.
- Pradisty, N. A., A. A. Amir, & M. Zimmer. 2021. Plant Species and Stage Specific Differences in Microbial Decay of Mangrove Leaf Litter: The Older the Better?. *Oecologia*, 195(4): 843–858.
- Pradisty, N. A., F. Sidik, Y. Bimantara, I. E. Susetya, & M. Basyuni. 2022. Litterfall and Associated Macrozoobenthic of Restored Mangrove Forest in Abandoned Aquaculture Ponds. *Sustainability*, 14(13): 8082.
- Pramudji. 2000. Hutan Mangrove di Indonesia: Peranan, Permasalahan dan Pengelolaannya. *Oseana*, 25(1): 13–20.
- Pramudji, & L. H. Purnomo. 2003. *Mangrove sebagai Tanaman Penghijau Pantai*. Pusat Penelitian Oseanografi LIPI, Jakarta.
- Rahman, F. A., & A. P. Hadi. 2021. Kandungan C-Organik Substrat Ekosistem Mangrove di Danau Air Asin Gili Meno Kabupaten Lombok Utara. *Bioscientist: Jurnal Ilmiah Biologi*, 9(2): 516–526.
- Romañach, S. S., D. L. DeAngelis, H. L. Koh, Y. Li, S. Y. Teh, R. S. Raja Barizan, & L. Zhai. 2018. Conservation and Restoration of Mangroves: Global Status, Perspectives, and Prognosis. *Ocean and Coastal Management*, 154: 72–82.
- Rombe, K. H., A. Yasser, A. Surachmat, & F. A. Andhini. 2021. Kajian Vegetasi Kawasan Hutan Mangrove Wana Tirta di Kulon Progo Daerah Istimewa Yogyakarta. *Jurnal Salamata*, 3(1): 1–6.
- Ronavia, A., I. W. Restu, & I. K. Wijanegara. 2020. Potensi dan Sebaran Jenis Pidada (*Sonneratia caseolaris*) berdasarkan Jenis Tanah di Tahura Ngurah Rai Bali. *Journal of Marine and Aquatic Sciences*, 6(2): 180–189.
- Rositah, H. Herawatiningsih, & G. Hardiansyah. 2013. Pendugaan Biomassa Karbon Serasah dan Tanah pada Hutan Tanaman (*Shorea leprosula* miq) Sistem TPTII PT. Suka Jaya Makmur, *Jurnal Hutan Lestari*, 1(3): 358–366.
- Rosyad, N. 2000. *Studi Produktivitas Serasah pada Berbagai Umur Tegakan *Rhizophora* sp.*. Skripsi. Jurusan Manajemen Hutan, Fakultas Kehutanan, Universitas Winaya Mukti.
- Sari, K. W., Yunasfi, & A. Suryanti. 2017. Dekomposisi Serasah Daun Mangrove *Rhizophora apiculata* di Desa Bagan Asahan, Kecamatan Tanjungbalai, Kabupaten Asahan, Provinsi Sumatera Utara. *Jurnal Acta Aquatica*, 4(2): 88–94.
- Sarker, S. K., J. Matthiopoulos, S. N. Mitchell, Z. U. Ahmed, M. B. Al Mamun, & R. Reeve. 2019. 1980s–2010s: The World’s Largest Mangrove Ecosystem is Becoming Homogenous. *Biological Conservation*, 236: 79–91.
- Sasmito, S. D., M. Sillanpaa, & M. A. Hayes. 2020. Mangrove Blue Carbon Stocks and Dynamics are Controlled by Hydrogeomorphic Settings and Land-use Change. *Global Change Biology*, 26(5): 3028–3039.
- Sawitri, R., Sunarto, & S. Dibyosaputro. 2012. *Strategi Pengelolaan Lingkungan pada Ekosistem Mangrove di Sekitar Muara Sungai Bogowonto Kabupaten Kulon Progo*. Thesis. UGM.
- Schaduw, J. N. W. 2018. Distribusi dan Karakteristik Kualitas Perairan Ekosistem Mangrove Pulau Kecil Taman Nasional Bunaken. *Majalah Geografi Indonesia*, 32(1): 40–49.

- Schmidt, M. W. L. *et al.* 2011. Persistence of Soil Organic Matter as an Ecosystem Property. *Nature*, 478(7367): 49–56.
- Selviani, N. P. Zamani, N. M. N. Natih, & N. Tarigan. 2024. Analysis of Mangrove Leaf Litter Decomposition Rate in Mangrove Ecosystem of Muara Pagatan, South Kalimantan. *Jurnal Kelautan Tropis*, 27(1): 103–112.
- Setyaningrum, I. F., & E. D. Puspitasari. 2022. Environmental Analysis of Mangrove Ecosystems in The Southern Coast of Purwodadi Subdistrict, Purworejo Regency, Central Java. *Journal of Environment and Sustainability*, 6(2): 157–173.
- Setyawan, A. D., Y. I. Ulumuddin, & P. Ragavan. 2014. Review: Mangrove Hybrid of *Rhizophora* and its Parental Species in Indo-Malayan Region. *Nusantara Bioscience*, 6(1): 69–81.
- Simamora, E. N., Adriman, & M. Fauzi. 2017. Produksi Serasah Mangrove di Teluk Buo Kecamatan Bungus Teluk Kabung Kota Padang Provinsi Sumatera Barat. *Jurnal Fakultas Pertanian dan Kelautan Universitas Riau*, 1(2): 5–6.
- Sitompul, R. H., K. Khairijon, & S. Fatonah. 2014. Produksi Serasah Berdasarkan Zonasi di Kawasan Mangrove Bandar Bakau, Dumai-Riau. *JOM FMIPA*, 1(2): 492–499.
- Sondak, C. F. A. 2015. Estimasi Potensi Penyerapan Karbon Biru (Blue Carbon) oleh Hutan Mangrove Sulawesi Utara. *Journal of Asean Studies on Maritime Issues*, 1(1): 24–28.
- Sopana, A. G., T. Widyaleksono, & T. Soedarti. 2011. *Produktivitas Serasah Mangrove di Kawasan Wonorejo Pantai Timur Surabaya*. Skripsi. Fakultas Sains dan Teknologi, Universitas Airlangga.
- Sulistiyo, Y., J. Rieley, & S. Limin. 2005. Laju Dekomposisi dan Pelepasan Hara dari Serasah pada Dua Sub-Tipe Hutan Rawa Gambut di Kalimantan Tengah. *Jurnal Manajemen Hutan Tropika*, 11(2): 1–14.
- Susiana, S. 2011. *Diversitas dan Kerapatan Mangrove, Gastropoda, dan Bivalvia di Estuari Perancak, Bali*. Skripsi. Program Studi Manajemen Sumberdaya Perairan, Universitas Hasanuddin.
- Suwa, R., R. Rollon, S. Sharma, M. Yoshikai, G. M. G. Albano, K. Ono, N. S. Adi, R. N. A. Ati, M. A. Kusumaningtyas, T. L. Kepel, R. J. Maliao, Y. H. P. Tirol, A. C. Blanco, & K. Nadaoka. 2021. Mangrove Biomass Estimation Using Canopy Height and Wood Density in the South East and East Asian Regions. *Estuarine, Coastal and Shelf Science*, 248: 1–9.
- Taiz, L., & E. Zeiger. 2010. *Plant Physiology* (5th ed.). Sunderland, MA: Sinauer Associates.
- Tidore, F., A. Rumengan, C. F. A. Sondak, R. E. Mangindaan, H. C. Runtuwene, & S. B. Pratasik. 2018. Estimasi Kandungan Karbon (C) pada Serasah Daun Mangrove di Desa Lansia, Kecamatan Wori, Kabupaten Minahasa Utara. *Jurnal Pesisir dan Laut Tropis*, 2(1): 53–58.
- Vinh, T. V., M. Allenbach, K. T. V. Linh, & C. Marchand. 2020. Changes in Leaf Litter Quality During its Decomposition in a Tropical Planted Mangrove Forest (Can Gio, Vietnam). *Frontiers in Environmental Science*, 8(10): 1–15.
- Wahyuni, Y. 2013. *Analisis Produksi Serasah Mangrove *Rhizophora apiculata* dan *Sonneratia alba* di Kawasan Konservasi Mangrove dan Bekantan Kota*

- Tarakan. Skripsi. Fakultas Perikanan dan Ilmu Kelautan, Universitas Borneo Tarakan.
- Watumlawar, Y., C. F. A. Sondak, J. N. W. Schadu, J. M. Mamuaja, S. Darwisito, & J. Andaki. 2019. Produksi dan Laju Dekomposisi Serasah Mangrove (*Sonneratia* sp.) di Kawasan Hutan Mangrove Bahowo, Kelurahan Tongkaina, Kecamatan Bunaken, Sulawesi Utara. *Jurnal Pesisir dan Laut Tropis*, 1(1): 1–6.
- Widyasari, N. A. K., B. H. Saharjo, Solichin, & Istomo. 2010. Pendugaan Biomassa dan Potensi Karbon Terikat di atas Permukaan Tanah pada Hutan Rawa Gambut Bekas Terbakar di Sumatera Selatan. *Jurnal Ilmu Pertanian Indonesia*, 15(1): 41–49.
- Xia, Q., C. Qin, H. Li, C. Huang, & F. Su. 2018. Mapping Mangrove Forests Based on Multi-Tidal High Resolution Satellite Imagery. *Remote Sensing*, 10(1343): 1–20.
- Xiong, Y., B. Liao, & F. Wang. 2018. Mangrove Vegetation Enhances Soil Carbon Storage Primarily Through in Situ Inputs Rather than Increasing Allochthonous Sediments. *Marine Pollution Bulletin*, 131: 378–385.
- Yulma, B. Ihsan, Sunarti, E. Malasari, N. Wahyuni, Mursyban. 2017. Identifikasi Bakteri pada Serasah Daun Mangrove yang Terdekomposisi di Kawasan Konservasi Mangrove dan Bekantan (KKMB) Kota Tarakan. *Journal of Tropical Biodiversity and Biotechnology*, 2: 28–33.
- Zhang, Y., L. Xiao, D. Guan, Y. Chen, M. Motelica-Heino, Y. Peng, & S. Y. Lee. 2021. The Role of Mangrove Fine Root Production and Decomposition on Soil Organic Carbon Component Ratios. *Ecological Indicators*, 125: 1–10.
- Zhang, J., S. Gan, P. Yang, J. Zhou, X. Huang, H. Chen, H. Hue, N. Saintilan, C. J. Sanders, & F. Wang. 2024. A Global Assessment of Mangrove Soil Organic Carbon Sources and Implications for Blue Carbon Credit. *Nature Communications*, 15: 1–7.
- Zhu, B., J. Liao, & G. Shen. 2021. Spatio-temporal Simulation of Mangrove Forests Under Different Scenarios: A Case Study of Mangrove Protected Areas, Hainan Island, China. *Remote Sensing*, 13(20): 4059.