

DAFTAR PUSTAKA

- Aditya, F., Pratama, R. S., Silaban, F., Hasibuan, M., Siregar, R., & Manurung, M. F. (2023). Krisis Lingkungan Dan Implikasinya Terhadap Keamanan Manusia (Studi Kasus Pembuangan Limbah Nuklir Oleh Jepang). *Student Research Journal*, 1(6), 210–219.
- Afele, A. (2021). Linking Territorial and Coastal Planning: Conservation Status and Management of Mangrove Ecosystem at the Egyptian - African Red Sea Coast. *Aswan University Journal of Environmental Studies*, 0(0), 0–0. <https://doi.org/10.21608/aujes.2021.65951.1013>
- Afianti, N. F., & Febrian, D. (2020). Potensi Degradasi Minyak oleh Konsorsium Bakteri dari Sedimen Mangrove Bintan. *Prosiding The 11th Industrial Research Workshop and National Seminar*, 725–729.
- Aida, G. R., Wardiatno, Y., Fahrudin, A., & Kamal, M. M. (2016). Dynamic model of economic value of mangrove ecosystems Tangerang Coastal Area, Banten. *Bonorowo Wetlands*, 6(1), 26–42. <https://doi.org/10.13057/bonorowo/w060103>
- Aishah Mohd Ali, S., Payus, C., & Mohd Ali, M. (2015). Surface Sediment Analysis on Petroleum Hydrocarbon and Total Organic Carbon From Coastal Area of Papar to Tuaran, Sabah (Analisis Sedimen Permukaan Terhadap Petroleum Hidrokarbon dan Jumlah Karbon Organik daripada Pesisiran Pantai Papar ke Tuaran, Sabah). *Malaysian Journal of Analytical Sciences*, 19(April), 318–324.
- Aisyah, S., Malik, M. A., Desmiati, I., Rustam, D., & Munzir, A. (2024). *Implementation of Simultaneous Approach As An Effort To Increase*. 1, 272–281.
- Akagbue, B. O., Popoola, T. O., Aminu, M. B., Nenger, J. A., & Babatunde, S. (2024). Negative Health and Environmental Effects of Oil Exploitation in Southern Ijaw, Bayelsa State, Nigeria. *European Journal of Environment and Earth Sciences*, 5(3), 34–41. <https://doi.org/10.24018/ejgeo.2024.5.3.464>
- Akram, H., Hussain, S., Mazumdar, P., Chua, K. O., Butt, T. E., & Harikrishna, J. A. (2023). Mangrove Health: A Review of Functions, Threats, and Challenges Associated with Mangrove Management Practices. *Forests*, 14(9), 1–38. <https://doi.org/10.3390/f14091698>
- Alih, A. A., & Bara, Z. J. (2024). Blue Carbon: Examining its Role in Addressing the Climate Crisis. *Bincang Sains Dan Teknologi*, 3(01), 25–33. <https://doi.org/10.56741/bst.v3i01.509>
- Alongi, D. M. (2002). Present state and future of the world's mangrove forests. *Environmental Conservation*, 29(3), 331–349. <https://doi.org/10.1017/S0376892902000231>
- Amelia, S. (2022). Tumpahan Minyak Di Teluk Balikpapan Menimbulkan Permasalahan Lingkungan. *Seri Publikasi Pembelajaran Pendidikan Lingkungan Hidup*, 1, 2–4.

- Aminuddin, M. A., & Agussalim Burhanuddin. (2023). Potensi Kekayaan Dan Keberagaman Maritim Di Wilayah Papua Dalam Upaya Mendorong Kesejahteraan Rakyat. *Mandub : Jurnal Politik, Sosial, Hukum Dan Humaniora*, 1(4), 157–176. <https://doi.org/10.59059/mandub.v1i4.607>
- Amri, F. D., Suryono, C. A., & Setyati, W. A. (2019). Korelasi Total Kandungan Hidrokarbon pada Air dan Sedimen di Perairan Sungai Donan, Segara Anakan Kabupaten Cilacap, Jawa Tengah. *Journal of Marine Research*, 8(4), 361–366. <https://doi.org/10.14710/jmr.v8i4.24700>
- Anggraini, R. R., Yanuhar, U., & Risjani, Y. (2020). Karakteristik Sedimen di Perairan Pesisir Lekok, Kabupaten Pasuruan, Jawa Timur. *Jurnal Ilmu Dan Teknologi Kelautan Tropis*, 12(1), 235–246.
- Arkham, M. N., Riadi, S., Wahyudin, Y., & Krisnafi, Y. (2023). Economic value of mangrove ecosystem services in the coastal area of Bintan Island, Indonesia. *Wetlands Ecology and Management*, 1–19. <https://doi.org/10.1007/s11273-023-09955-y>
- Asfiah, S. (2020). Modifikasi Deanstark Upaya Efisiensi Proses Distilasi Uap Minyak Biji Pala Dalam Praktikum Kimia Organik. *Indonesian Journal of Laboratory*, 2(1), 10. <https://doi.org/10.22146/ijl.v2i1.54161>
- Astuti, A. D., & Titah, H. S. (2020). Studi Fitoremediasi Polutan Minyak Bumi di Wilayah Pesisir Tercemar Menggunakan Tumbuhan Mangrove. *Jurnal Teknik Its*, 9(2), 111–116.
- Christanto, J. (2009). The Environmental Management of the Segara Anakan Lagoon. *Geomedia*, 7(November2), 1–18.
- Damai Agusthin, I., Putri Ramadhani, S., & Adymas Hikal Fikri, M. (2024). Mitigasi Penanggulangan Tumpahan Minyak (Oil Spill) di Perairan Laut Kepulauan Riau Berdasarkan Law Of The Sea Convention. *Sosial Dan Administrasi Negara*, 2, 186–208. <https://doi.org/10.62383/jembatan.v1i2.264>
- Derby, C. D. (2021). The crustacean antennule: A complex organ adapted for lifelong function in diverse environments and lifestyles. *Biological Bulletin*, 240(2), 67–81. <https://doi.org/10.1086/713537>
- Dewi, R. (2018). Perencanaan lanskap untuk pengembangan wisata alam di sempdan sungai kemiri Kecamatan Margadana–Kota Tegal. *Jurnal Rekayasa, Teknologi, Dan Sains*, 2(1), 1–7. <https://www.ejurnalmalahayati.ac.id/index.php/teknologi/article/view/1-7>
- Emma, H., & Rina, M. (2014). Community Based Ecotourism influence the condition of Ecology , Social , and Economic. *Jurnal Sosiologi Pedesaan*, 02(03), 146–159.

- Fajri, S., Gunawan, H., Puspitasari, D., Ningrum, H. S., Nizirwan, M. I., Firmansyah, M. A., Hardiansyah, H., Pahmi, P., & Wahyudi, A. (2023). Identifikasi Biota Asosiasi Pada Mangrove Jenis *Avicennia* spp. dan *Sonneratia* spp. di Pantai Laksamana Kabupaten Batu Bara. *SINTA Journal (Science, Technology, and Agricultural)*, 4(2), 215–220. <https://journal.pdmbengkulu.org/index.php/sinta/article/view/1055>
- Ferreira, A. C., Borges, R., & de Lacerda, L. D. (2022). Can Sustainable Development Save Mangroves? *Sustainability (Switzerland)*, 14(3), 1–27. <https://doi.org/10.3390/su14031263>
- Fontana, L. F., Da Silva, F. S., De Figueiredo, N. G., Brum, D. M., Pereira Netto, A. D., De Figueiredo, A. G., & Crapez, M. A. C. (2010). Superficial distribution of aromatic compounds and geomicrobiology of sediments from Suruí Mangrove, Guanabara Bay, RJ, Brazil. *Anais Da Academia Brasileira de Ciencias*, 82(4), 1013–1030. <https://doi.org/10.1590/s0001-37652010000400022>
- Francis, P. K., Estim, A., & Sidik, M. J. (2024). Oil and Grease Pollution in the West Coast of Sabah and Water Quality Index for the Conservation of Marine Biota. *Environment and Natural Resources Journal*, 22(4), 321–334. <https://doi.org/10.32526/enrj/22/20230314>
- Gargarán, J. P. S., Capuno, R. D. Y., Novicio, V. F. P., Petiluna, C. C., Catalba, C. E. T., Paras, D. A. P., & Garces, J. J. C. (2024). Mangrove ecosystem in Asia: review and synthesis of ecosystem services and economic valuation methods. *Environmental and Experimental Biology*, 22(2), 59–70. <https://doi.org/10.22364/eeb.22.06>
- Gatot Morwanto, Depri, Yuanita FD Sidabutar, & Ismael P Sinaga. (2023). Pemanfaatan Hutan Bakau Menjadi Destinasi Ekowisata Mangrove Di Kampung Tua Bakau Serip Kelurahan Sambau, Kecamatan Nongsa, Kota Batam. *Jurnal Potensi*, 3(2). <https://doi.org/10.37776/jpot.v3i2.1215>
- Gumilar, I. (2018). Participation Of Coastal Peoples IN the Preservation of Mangrove Forest Ecosystems (Case Study in Indramayu Regency of West Java). *Jurnal Ilmu-Ilmu Sosial Dan Humaniora*, 20(2), 145–153.
- Hamzah, A. H. P., Marzuki, M., Nurhasanah, N., & Nurmawati, S. (2023). Environmental Risk Analysis in Mangrove and Crab Conservation Areas in Pamusian Village Due To Land Use Change in Tarakan City. *Jurnal Ilmiah Global Education*, 4(2), 980–995. <https://doi.org/10.55681/jige.v4i2.905>
- Hanca, N., Putri, D., Nurul, F., Betris, N., Mushandi, R., Setiawan, C., & Kusumawati, L. (2023). Optimalisasi Keberadaan Ekosistem Mangrove Untuk Mencegah Abrasi Pantai Di Pulau Tidung. *Jurnal Borneo Saintek*, 6(1), 1–6. https://doi.org/10.35334/borneo_saintek.v6i1.4196
- Hariyadi. (2018). Peran Masyarakat dalam Pengelolaan Ekosistem Mangrove untuk Mitigasi Bencana: Studi di Segara Anakan, Kab. Cilacap. *Kajian*, 23(1), 43–61.

- Henry, C. A., Singh, T. B., & Oyedotun, T. D. T. (2023a). The Environmental Risks Posed by the Oil and Gas Development and Its Potential Impacts on Mangrove Ecosystems and the Coastal Community's Well-Being. *Journal of Geoscience and Environment Protection*, 11(05), 17–46. <https://doi.org/10.4236/gep.2023.115002>
- Henry, C. A., Singh, T. B., & Oyedotun, T. D. T. (2023b). The Mitigation Strategies for Managing the Potential Environmental Risks Posed by Oil and Gas Development on Mangrove Ecosystems in the Coastal Communities. *Journal of Geoscience and Environment Protection*, 11(05), 243–268. <https://doi.org/10.4236/gep.2023.115016>
- Hidayatullah, M., & Pujiono, E. (2014). Struktur Dan Komposisi Jenis Hutan Mangrove Di Golo Sepang – Kecamatan Boleng Kabupaten Manggarai Barat. *Jurnal Penelitian Kehutanan Wallacea*, 3(2), 151. <https://doi.org/10.18330/jwallacea.2014.vol3iss2pp151-162>
- Hilmi, E., Junaidi, T., Mahdiana, A., Prayogo, N. A., Dewi, R., & Rahayu, S. (2024). the Specific Ordination and Clustering of Mangrove Ecosystem in Segara Anakan. *Indonesian Journal of Forestry Research*, 11(1), 47–63. <https://doi.org/10.59465/ijfr.2024.11.1.47-63>
- Hilmi, E., Kusmana, C., Suhendang, E., & Iskandar. (2017). Correlation Analysis Between Seawater Intrusion and Mangrove Greenbelt. *Indonesian Journal of Forestry Research*, 4(2), 151–168. <https://doi.org/10.20886/ijfr.2017.4.2.151-168>
- Hilmi, E., Prayogo, N. A., Junaidi, T., Mahdiana, A., Dewi, R., & Khairunisa, L. (2023). Peningkatan Pemahaman Masyarakat dalam Membangun Konservasi Mangrove di Segara Anakan Cilacap. *Jurnal Komunitas*, 6(1), 136–145.
- Hilmi, E., Prayogo, N. A., Junaidi, T., Mahdiana, A., & Fikriyya, N. (2023). Adaptive pattern of mangrove species and the mangrove landscaping in the heavy metal polluted area of Eastern Segara Anakan Lagoon, Indonesia. *Biodiversitas*, 24(5), 2927–2937. <https://doi.org/10.13057/biodiv/d240548>
- Hilmi, E., Sari, L. K., Cahyo, T. N., Mahdiana, A., Soedibya, P. H. T., & Sudiana, E. (2022). Survival and growth rates of mangroves planted in vertical and horizontal aquaponic systems in North Jakarta, Indonesia. *Biodiversitas*, 23(2), 687–694. <https://doi.org/10.13057/biodiv/d230213>
- Hilmi, E., Sari, L. K., Cahyo, T. N., Muslih, Mahdiana, A., & Samudra, S. R. (2021). The affinity of mangrove species using association and cluster index in north coast of jakarta and segara anakan of cilacap, indonesia. *Biodiversitas*, 22(7), 2907–2918. <https://doi.org/10.13057/biodiv/d220743>
- Hilmi, E., Sari, L. K., Mahdiana, A., Junaidi, T., Muslih, M., Samudra, S. R., Prayogo, N. A., Baedowi, M., Cahyo, T. N., Putra, R. R. D., & Sari, F. A. (2022). Mapping of Mangrove Ecosystem In Segara Anakan Lagoon using Normalized Different Vegetation Index and Dominant Vegetation Index. *Omni-Akuatika*, 18(2), 165. <https://doi.org/10.20884/1.oa.2022.18.2.926>

- Hilmi, E., Siregar, A. S., & Febryanni, L. (2015). Struktur Komunitas, Zonasi Dan Keanekaragaman Hayati Vegetasi Mangrove Di Segara Anakan Cilacap. *Omni-Akuatika*, 11(2), 20–32. <https://doi.org/10.20884/1.oa.2015.11.2.36>
- Hülßen, S., McDonald, R. I., Chaplin-Kramer, R., Bresch, D. N., Sharp, R., Worthington, T., & Kropf, C. M. (2023). *Global coastal protection benefits of ecosystems - past, present, and under climate change*. 25, 15-30.
- Hutahaean, E. E., Kusmana, C., Helmy, D., & Dewi, R. (1999). Study on Growth Capability of Mangrove Forest Seedling of *Rhizophora mucronata*, *Bruguiera gimnorrhiza* and *Avicennia marina* Species on Various levels of Salinity. *Jurnal Manajemen Hutan Tropika*, V(1), 77–85.
- Indawan, E., Ahmadi, K., & Novitawati, R. A. D. (2013). Komposisi Mangrove pada Lahan Tercemar BTEX dan Logam Berat. *Jurnal Natur Indonesia*, 14(3), 212. <https://doi.org/10.31258/jnat.14.3.212-218>
- Istikorini, Y., & Sari, O. Y. (2022). Jurnal Sylva Lestari. *Jurnal Sylva Lestari*, 10(2), 211–222. <http://jurnal.fp.unila.ac.id/index.php/JHT/article/view/1064/969>
- Kandidat, M., Plus, P., Vierh, F., Mangrove, E., Anakan, S., Cilacap, K., Yeny, I., Dwiyantri, F. G., Kusmana, C., Rahmila, I., Yulianti, M., & Faisal, M. (2024). *Morfologi Kandidat Pohon Plus*. 21(2), 87–100.
- Karimi, Z., Abdi, E., Deljouei, A., Cislighi, A., Shirvany, A., Schwarz, M., & Hales, T. C. (2022). Vegetation-induced soil stabilization in coastal area: An example from a natural mangrove forest. *Catena*, 216, 0–3. <https://doi.org/10.1016/j.catena.2022.106410>
- Kartiningrum, E. D., Basuki, H., Bambang, N., Otok, W., Nurul, E., & Yuswatiningsih, K. E. (2022). *Penerbit STIKES Majapahit Mojokerto Aplikasi Regresi dan Korelasi Dalam Analisis Data Hasil Penelitian*.
- Kusaeri, Putro, S. P., & Wasiq, J. (2015). Potensi Sumberdaya Alam Hayati Kawasan Mangrove Pasar Banggi Kabupaten Rembang sebagai Objek Ekowisata. *Biosaintifika: Journal of Biology & Biology Education*, 7(2), 120–127. <https://doi.org/10.15294/biosaintifika.v7i2.3955>
- Mahdiana, A., & Laurensia, S. (2011). Status perikanan lobster (*Panulirus* spp.) di perairan kabupaten cilacap. *Sains Akuatik*, 13(2), 52–57.
- Majid, I., Henie, M., Al, I., Rohman, F., & Syamsuri, I. (2016). Konservasi Hutan Mangrove Di Pesisir Pantai Kota. *BIOeduKASI*, 4(2), 1–10.
- Martins, J. C. da S., & Mochel, F. R. (2022). Main Spills of Diesel Oil and Fuel Oils in Mangrove Ecosystems in Brazil, From 1975 To 2022. *International Journal of Biological and Natural Sciences*, 2(7), 2–13. <https://doi.org/10.22533/at.ed.813272220103>

- Maulana, P., Devi, I., Mariyori, S., & Lestari, D. A. (2022). Analisis Spasial Perubahan Sebaran Mangrove Akibat Tumpahan Minyak di Laut Banten Utara. *Pena Akuatika : Jurnal Ilmiah Perikanan Dan Kelautan*, 21(2), 85. <https://doi.org/10.31941/penaakuatika.v21i2.2109>
- Mawaddaturrokhmah, Muhamad Muhdar, & Rini Apriyani. (2020). Penerapan Teori Conditio sine Qua Non Dalam Peristiwa Tumpahan Minyak Di Teluk Balikpapan. *Risalah Hukum*, 16, 16–33. <https://doi.org/10.30872/risalah.v16i1.147>
- Mazaris, A. D. (2017). Open data and the future of conservation biology. *Ethics in Science and Environmental Politics*, 17(1), 29–35. <https://doi.org/10.3354/esep00175>
- Melani, K. D., Kumaladewi, L., Kautsar, M. F., & Maharani, N. S. (2025). *Analisis Adaptasi dan Persebaran Spesies Mangrove di Jawa Tengah*. 27, 40–50.
- Moreira, I. T. A., Oliveira, O. M. C., Triguís, J. A., dos Santos, A. M. P., Queiroz, A. F. S., Martins, C. M. S., Silva, C. S., & Jesus, R. S. (2011). Phytoremediation using *Rizophora mangle* L. in mangrove sediments contaminated by persistent total petroleum hydrocarbons (TPH's). *Microchemical Journal*, 99(2), 376–382. <https://doi.org/10.1016/j.microc.2011.06.011>
- Muarif. (2017). Karakteristik Ekosistem Mangrove di Kawasan Pesisir Kepulauan Natuna Characteristic of Mangrove Ecosystem in Natuna Island Coastal Area Muarif. *Jurnal Mina Sains*, 3(2), 1–6.
- Muarif, M., Damar, A., Hariyadi, S., Boer, M., & Soetrisno, D. (2017). Tingkat Kepekaan Mangrove Indonesia Terhadap Tumpahan Minyak (The Sensitivity Levels of Indonesian Mangrove to Oil Spills). *Jurnal Manusia Dan Lingkungan*, 23(3), 374. <https://doi.org/10.22146/jml.22476>
- Muhammad, S. A., Frizhal, A. J., Herni, R., Sri, C., & Esa, A. S. "Presidential C. A. in T. G. E. L. (2024). *AsSyar i {Jurnal} {Bimbingan} {Konseling} {Keluarga} 6 no. 6*, 1448–1460. <https://doi.org/10.47476/assyari.v6i3.5513>
- Mushbihatin, A. (2020). Keanekaragaman Mangrove di Kawasan Ekowisata Hutan Mangrove Petangoran, Gebang, Teluk Pandan, Pesawaran Skripsi. *Universitas Islam Negeri Raden Intan Lampung*, 66.
- Naibaho, A. A., Harefa, M. S., Nainggolan, R. S., & Alfiaturahmah, V. L. (2022). Investigasi Pemanfaatan Hutan Mangrove dan Dampaknya Terhadap Daerah Pesisir di Pantai Mangrove Paluh Getah, Tanjung Rejo. *J-CoSE: Journal of Community Service & Empowerment*, 1(1), 22–33. <https://doi.org/10.58536/j-cose.v1i1.3>
- Nayli, Z., S., M. A., & Kamal, S. (2018). Jenis Bivalvia di kawasan ekosistem mangrove Kecamatan Kutaraja Kota Banda Aceh. *Seminar Nasional Biotik*, 6(1), 115–120.
- Noegrohati, S. (2010). Assessment of Possible Indirect Risk of Naturally Occuring Mercury and Cadmium Through Mugil Sp. And Geloina Sp. Consumption In Segara Anakan Estuarine Ecosystem. *Indonesian Journal of Chemistry*, 5(2), 135–142.

- Pérez-Ceballos, R., Zaldívar-Jiménez, A., Melgarejo-Salas, S., Canales-Delgadillo, J., López-Portillo, J., Merino-Ibarra, M., Celis-Hernandez, O., Lara-Domínguez, A. L., & Ochoa-Gómez, J. (2022). Porewater Sulfide: The Most Critical Regulator in the Degradation of Mangroves Dominated by Tides. *Forests*, 13(8). <https://doi.org/10.3390/f13081307>
- Poedjirahajoe, E. (2015). Klasifikasi Habitat Mangrove untuk Pengembangan Silvofishery Kepiting Soka (*Scylla serrata*) di Pantai Utara Kabupaten Rembang. *Jurnal Ilmu Kehutanan*, 9(2), 85. <https://doi.org/10.22146/jik.10192>
- Prasetyo, C. G., Putra, I. D. N. N., & Putra, I. N. G. (2023). Korelasi indeks keanekaragaman dan kerapatan tegakan dengan simpanan karbon mangrove Estuari Perancak. *Journal of Marine and Aquatic Sciences*, 8(2), 230. <https://doi.org/10.24843/jmas.2022.v08.i02.p08>
- Purwanto, A. D., Asriningrum, W., Winarso, G., & Parwati, E. (2014). Analisis Sebaran dan Kerapatan Mangrove Menggunakan Citra Landsat 8 di Segara Anakan, Cilacap. *Seminar Nasional Penginderaan Jauh 2014, 21 April 2*, 232–241.
- Rachmawani, D., Yulianda, F., Kusmana, C., Boer, M., & Parwati, E. (2017). Dampak Hidrokarbon Aromatik Terhadap Ekosistem Mangrove di Kawasan Binalatung Kota Tarakan Kalimantan Utara (Impact of Aromatic Hydrocarbon on Mangrove Ecosystem in Binalatung Area Tarakan City North Kalimantan). *Jurnal Manusia Dan Lingkungan*, 23(3), 295. <https://doi.org/10.22146/jml.18801>
- Rachmawati, D., Setyobudiandi, I., & Hilmi, E. (2014). Potensi Estimasi Karbon Tersimpan Pada Vegetasi Mangrove Di Wilayah Pesisir Muara Gembong Kabupaten Bekasi. *Omni-Akuatika*, 10(2), 85–91.
- Rahardi, W., & Suhardi, R. M. (2024). *Keanekaragaman Hayati dan Jasa Ekosistem Pendahuluan region utama yaitu Laurasia (dataran Sunda), Gondwana Timur (dataran Australo-. August 2016*.
- Safuridar, S., & Andiny, P. (2019). Dampak Pengembangan Ekowisata Hutan Mangrove terhadap Sosial dan Ekonomi Masyarakat di Desa Kuala Langsa, Aceh. *Jurnal Samudra Ekonomi dan Bisnis*, 11(1), 43–52. <https://doi.org/10.33059/jseb.v11i1.1882>
- Sahana, M., Areendran, G., & Sajjad, H. (2022). Assessment of suitable habitat of mangrove species for prioritizing restoration in coastal ecosystem of Sundarban Biosphere Reserve, India. *Scientific Reports*, 12(1). <https://doi.org/10.1038/s41598-022-24953-5>
- Sapriyadi, Farhaby, A. M., & Adibrata, S. (2023). Estimasi Stok Karbon Pada Tegakan Mangrove Di Desa Sukamandi Kabupaten Belitung Timur. *Jurnal Sumberdaya Perairan*, 17(2), 76–80.
- Sari, D. M., & Saidah. (2021). Dampak Degradasi Hutan Mangrove Terhadap Kehidupan Nelayan di Desa Secanggang Kabupaten Langkat , Sumatera Utara Impact of

- mangrove forest degradation for fishermen ' s livelihoods in Secancang village , Langkat District , North Sumatra. *Pros. SemNas. Penngkatan Mutu Pendidikan*, 2, 54–59.
- Sari, L. K., Adrianto, L., Soewardi, K., Atmadipoera, A. S., & Hilmi, E. (2016). Sedimentation in lagoon waters (Case study on Segara Anakan Lagoon). *AIP Conference Proceedings*, 1730(May). <https://doi.org/10.1063/1.4947417>
- Sarita, I. D. A. A. D. S., Subrata, I. M., Sumaryani, N. P., & Rai, I. G. A. (2021). Identifikasi Jenis Rumput Laut yang terdapat pada Ekosistem Alami Perairan Nusa Penida. *Jurnal Edukasi Matematika Dan Sains*, 10(1), 141–154.
- Schaduw, J. N. W. (2019). Struktur Komunitas dan Persentase Penutupan Kanopi Mangrove Pulau Salawati Kabupaten Kepulauan Raja Ampat Provinsi Papua Barat. *Majalah Geografi Indonesia*, 33(1), 26. <https://doi.org/10.22146/mgi.34745>
- Scotland, S. (2021). *Sistem Perikanan dan Kelautan di Wilayah Kepulauan* (Issue Sistem Perikanan Dan Kelautan Di Wilayah Kepulauan). 978-602-5943-61-4
- Sukomardojo, T., Tabran, M., Al Muhtadin, M., Gymnastiar, I. A., & Pasongli, H. (2023). Mendorong Perilaku Konservasi Lingkungan di Komunitas Pesisir: Pelajaran dari Inisiatif Berbasis Masyarakat. *Jurnal Abdimas Peradaban*, 4(2), 22–31. <https://doi.org/10.54783/ap.v4i2.25>
- Surbakti, L. C., Hadinata, F. W., Nufus, H., Anggraini, R., Agustini, N. T., Leni, Y., Rolin, F., & Utami, R. T. (2025). *Penilaian Analisis Cluster dan Non-Metric Multidimensional Scalling terhadap Struktur Komunitas Mangrove di Desa Bagan Serdang , Sumatera Utara*. 14(2), 241–254. <https://doi.org/10.14710/buloma.v14i2.69484>
- Suwedi, N. (2018). Model Hubungan Waktu Terjadinya Tumpahan Minyak di Suatu Lokasi dengan Bentuk Sebarannya pada Daerah Terdampak A Relationship Model Between an Occurrence of Oil Spill and its Spread Around an Impacted Area Case Study: Oil Spills on a Coastal Area of the L. *Jurnal Teknologi Lingkungan*, 18(1), 104–111.
- Syakti, A. D., Ahmed, M. M., Hidayati, N. V., Hilmi, E., Sulystyo, I., Piram, A., & Doumenq, P. (2013). Screening of Emerging Pollutants in the Mangrove of Segara Anakan Nature Reserve, Indonesia. *IERI Procedia*, 5, 216–222. <https://doi.org/10.1016/j.ieri.2013.11.095>
- Syakti, A. D., Demelas, C., Hidayati, N. V., Rakasiwi, G., Vassalo, L., Kumar, N., Prudent, P., & Doumenq, P. (2015). Heavy metal concentrations in natural and human-impacted sediments of Segara Anakan Lagoon, Indonesia. *Environmental Monitoring and Assessment*, 187(1). <https://doi.org/10.1007/s10661-014-4079-9>
- Syakti, A. D., Hidayati, N. V., Hilmi, E., Piram, A., & Doumenq, P. (2013). Source apportionment of sedimentary hydrocarbons in the Segara Anakan Nature Reserve,

- Indonesia. *Marine Pollution Bulletin*, 74(1), 141–148.
<https://doi.org/10.1016/j.marpolbul.2013.07.015>
- Taqwa, A., Supriharyono, S., & Ruswahyuni, R. (2017). Primary productivity analysis of phytoplankton and community structure of macrobenthos based on mangrove density in the conservation area of Tarakan City, East Kalimantan. *International Journal of Bonorowo Wetlands*, 3(1), 30–40.
<https://doi.org/10.13057/bonorowo/w030103>
- Utara, P., Tengah, J., Nabilah, R., & Sitanggang, I. (2024). *Keanekaragaman Polen Mangrove dari Endapan Sedimen yang Terdapat pada Lanskap Pesisir di*. 6(1), 32–46.
- Wahyuni, Y., Kumala Putri, E. I., & Simanjuntak, S. M. (2014). Valuasi Total Ekonomi Hutan Mangrove Di Kawasan Delta Mahakam Kabupaten Kutai Kartanegara Kalimantan Timur. *Jurnal Penelitian Kehutanan Wallacea*, 3(1), 1.
<https://doi.org/10.18330/jwallacea.2014.vol3iss1pp1-12>
- Waluyo, W., Wahyudi, D., . A., & Uli Sagala, H. A. M. (2020). The Impact Of Oil Spill To The Total Petroleum Hydrocarbon (Tph) Concentration In Fishes At North Coastal Of Karawang Regency, West Java Province. *Journal of Marine Science*, 2(2), 11–18.
<https://doi.org/10.30564/jms.v2i2.1741>
- Wibowo, M. (2013). Pengembangan Konsep Sistem Informasi Peringatan Dini Tumpahan Minyak di Pesisir Cilacap. *JURNAL IPTEKKOM : Jurnal Ilmu Pengetahuan & Teknologi Informasi*, 15(1), 17. <https://doi.org/10.33164/iptekkom.15.1.2013.17-26>
- Widodo, B. . H., & Wahyuni, E. T. (2020). Manajemen Penanggulangan Tumpahan Minyak Di Laut Akibat Dari Pengoperasian Kapal. *Majalah Ilmiah Gema Maritim*, 20(1), 60–66.
- Wintah, Kiswanto, Hilmi, E., & Sastranegara, M. H. (2023). Mangrove diversity and its relationships with environmental conditions in Kuala Bubon Village, West Aceh, Indonesia. *Biodiversitas*, 24(8), 4599–4605.
<https://doi.org/10.13057/biodiv/d240864>
- Wintah, W. (2018). Analisis Zonasi Ekosistem Mangrove Pada Kawasan Mangrove Bekas Tsunami Di Aceh Barat Selatan. *Jurnal Litbang Kota Pekalongan*, 14, 90–94.
<https://doi.org/10.54911/litbang.v14i0.69>
- Yahya, H. (2019). Analisis Kadar Air dan Total Petroleum Hydrocarbon (TPH) dari Proses Bioremediasi Limbah Oli dengan Metode Pengomposan. *Jurnal Serambi Engineering*, 4(1), 372. <https://doi.org/10.32672/jse.v4i1.846>
- Yanti, I. (2022). Penentuan Cr (VI) and SO₂- Menggunakan Spektrofotometri UV-Vis dalam Sampel Air Sungai di Dinas Lingkungan Hidup Kota Semarang. *Indonesian Journal of Chemical Research*, 6(2), 51–58.
<https://doi.org/10.20885/ijcr.vol6.iss2.art1>

- Yogaswara, D., & Khozanah, K. (2018). Spatial Distribution of Total Petroleum Hydrocarbon (TPH) in Sediment of Sumba Sea, Nusa Tenggara Timur. *Oseanologi Dan Limnologi Di Indonesia*, 3(2), 173. <https://doi.org/10.14203/oldi.2018.v3i2.193>
- Zaky Zamani, M., Prajitno, A., & Fadjar, M. (2019). Morphological Characteristics of Bioactive Compounds on Api-Api Mangrove Leaves Extract (*Avicennia marina*) Based on Leaves Age. *Research Journal of Life Science*, 6(3), 184–192. <https://doi.org/10.21776/ub.rjls.2019.006.03.4>
- Zaynab, M., Al-Yahyai, R., Ameen, A., Sharif, Y., Ali, L., Fatima, M., Khan, K. A., & Li, S. (2022). Health and environmental effects of heavy metals. *Journal of King Saud University - Science*, 34(1), 101653. <https://doi.org/10.1016/j.jksus.2021.101653>

