

## Daftar Pustaka

- Ahmad, M. Ahmad, A. Omar T.F.T. and Mohammad, R., 2024. Current trends of analytical techniques for total alkalinity measurement in water samples: A review *critical reviews in analytical chemistry*, 54(8), pp. 2734–2744. Available at: <https://doi.org/10.1080/10408347.2023.2199432>.
- Ain, N., Ruswahyuni, dan Widyorini, N. 2014. Hubungan kerapatan rumput laut dengan substrat dasar berbeda di perairan pantai bandengan, Jepara. *Management of Aquatic Resources Journal Maquares*, 3(1), 99–107. <https://doi.org/10.14710/marj.v3i1.4426>.
- Anggadiredja, J.T., Zatnika, A., Purwoto, H., and Istini, S., 2008. Potential and Prospect of Indonesia Seaweed Industry Development. The Indonesia Agency for The Assessment and Application of Technology – Indonesia Seaweed Society. Jakarta, 28 hal.
- Ariyati, R. W., Sya'rani, L., & Arini, E. 2007. the Suitability Analysis of Karimunjawa and Kemujan Island Territory for Sea Weed Culture Site Using Geographical Information System. *Pasir Laut*, 3(1), 27–45. [www.dephut.go.id](http://www.dephut.go.id)
- Aryati, R. W., Sya'rani, L., Arini E .2007. Analisis kesesuaian perairan pulau karimunjawa dan pulau kemujan sebagai lahan budidaya rumput laut menggunakan sistem informasi geografis. *Jurnal Pasir Laut*, 3(1), 27–45. [www.dephut.go.id](http://www.dephut.go.id)
- Asni, A. 2015. Analisis produksi rumput laut (*kappaphycus alvarezii*) berdasarkan musim dan jarak lokasi budidaya di perairan kabupaten bantaeng. *Jurnal Akuatika Indonesia*, 6(2), 140–153.
- Astriana, B. H., Cokrowati, N., & Putra, A. P. 2023. Analisis tingkat pencemaran perairan di lokasi budidaya rumput laut, labuhan sangoro, teluk saleh kabupaten sumbawa. *Jurnal Perikanan Unram*, 13(3), 744–754. <https://doi.org/10.29303/jp.v13i3.617>.
- Atmanisa, A., Mustarin, A., & Taufieq, N.A.S., 2020. Analisis kualitas air pada kawasan budidaya rumput laut *eucheuma cottoni* di kabupaten jeneponto. *Jurnal Pendidikan Teknologi Pertanian*, 6(1), 11–22. <https://doi.org/10.26858/jptp.v6i1.11275>.
- Awaluddin, Badraeni, Azis, H.Y., dan Tuwo, A., 2016. Perbedaan kandungan karaginan dan produksi rumput laut *kappaphycus alvarezii* antara bibit alam dan bibit hasil pengayaan. *Jurnal Rumput Laut Indonesia*, 1(1), 65–7.
- Basiroh, S., Ali, M., dan Putri, B., 2016. Pengaruh periode panen yang berbeda terhadap kualitas karaginan rumput laut *kappaphycus alvarezii*: Kajian Randemen dan Organoleptik Karaginan. *Maspari Journal*, 8(2), 127–134.
- Bayu, B. and Sugito, S. 2017. Analisis kadar derajat keasaman (ph) dalam pemeliharaan ikan hias koki pada media tanaman hias air dengan penambahan nonilfenol', *Buletin Teknik Litkayasa Akuakultur*, 15(1), p. 25. Available at: <https://doi.org/10.15578/blta.15.1.2017.25-28>.

- Bengen, Dietrich. G., 2000. Sinopsis Teknik Pengambilan Contoh dan Analisis Data Biofisik Sumberdaya Pesisir. PKSPLIPB, Bogor.
- Brockmann, D.P., & Jense, M. 2008. Calcium and Carbonate in Closed Marine Aquarium Systems. *Public Aquarium Husbandary Series*, 2: 133-142.
- Chang, H., & Indriaty, D.F., 2017. Sistem Pengukur Kecepatan Arus Air Menggunakan Current Meter Tipe "1210 AA." 19(1), 81–95.
- Chung, I.K., Kang, Y.H., Yarish, C., Kraemer, G.P., Lee, J.A., 2002. Application of seaweed cultivation to the bioremediation of nutrient-rich effluent. *Algae* 17, 187–194.
- Delbeek, J.C. & Sprung, J. 2005. The Reef Aquarium: Science, Art, and Technology. Ricordea Publishing, Florida, 608 p.
- Dias, M., Marmelo, I., António, C., Rodrigues, A. M., Marques, A., Diniz, S., & Luí, A. (2025). *Asparagopsis taxiformis* feed supplementation as a tool to improve the resilience of farmed *Diplodus sargus* to marine heatwave events – a metabolomics approach. 1–27.
- Dinata, H. N., Henri, H., & Adi, W. (2022). Analisis Habitat Gastropoda pada Ekosistem Lamun di Perairan Pulau Semujur, Bangka Belitung. *Jurnal Ilmiah Sains*, 22(1), 49. <https://doi.org/10.35799/jis.v22i1.37694>.
- Dishon, G., Resetarits, H.M., Tsai, B., Jones, A.L., Agarwal, V., & Smith, J. E., 2023. The effect of light intensity , spectrum , and photoperiod on the physiological performance of *Asparagopsis taxiformis* tetrasporophytes. *Journal of Algal Research*. 103304 76(October).
- Fahirah, Y.N., Yusuf, M. and Wulandari, S.Y. 2024. Hubungan konsentrasi nitrat dan tingkat kekeruhan di perairan morodemak, kabupaten demak', *Indonesian Journal of Oceanography*, 6(2), pp. 139–147. Available at: <https://doi.org/10.14710/ijoce.v6i2.17506>.
- Fathurrahman, F., dan Aunurohim, A., 2014. Kajian komposisi fitoplankton dan hubungannya dengan lokasi budidaya kerang mutiara (*Pinctada maxima*) di Perairan Sekotong. Nusa Tenggara Barat. *Jurnal Sains dan Seni ITS*, 3(2): E93-E98.
- Fikri, M., Rejeki, S., and Widowati, L.L. 2015. Produksi dan kualitas rumput laut (*Eucheuma cattonii*) dengan kedalaan berbeda di perairan bulu Kabupaten Jepara. *Journal of Aquaculture Management and Technology*, 4(2), 67–74.
- Goldman J., 2021. Optimizing the growth of the red seaweed *Asparagopsis taxiformis* by managing light quality and intensity.
- Gultom, R.C., Dirgayusa, I.G.N.P., dan Puspitha, N.L.P.R., 2019. Perbandingan laju pertumbuhan rumput laut (*eucheuma cottonii*) dengan menggunakan sistem budidaya ko-kultur dan monokultur di perairan pantai geger, Nusa Dua, Bali. *Journal of Marine Research and Technology*. 2(1): 8–16.

- Hall, A.M. *et al.* 2025. The effects of water motion on fragmentation of *Asparagopsis armata*, *New Zealand Journal of Marine and Freshwater Research*, 59(3), pp. 597–614. Available at: <https://doi.org/10.1080/00288330.2025.2458508>.
- Hamuna, B., Tanjung, R.H.R., Suwito, M.H., dan A. 2018. Kajian kualitas air laut dan indeks pencemaran berdasarkan parameter fisika-kimia di perairan distrik depapre, Jayapura. *Jurnal Ilmu Lingkungan*, 16(1), 35–45.
- Handoko, E.Y., Syariz, M.A. and Ashiddiqi, M.H. 2024. Perbandingan Komponen Pasang Surut Yang Diperoleh Melalui Pengukuran Tide Gauge Dan Satelit Altimetri', *Jurnal Teknologi Perikanan dan Kelautan*, 15(1), pp. 79–91. Available at: <https://doi.org/10.24319/jtpk.15.79-91>.
- Hariyadi, Kamil, M., Ananda, p. 2020. Sistem pengecekan ph air otomatis menggunakan sensor ph probe berbasis arduino pada sumur bor. *Journal Rank Teknik* 3(2). <https://doi.org/10.31869/rtj.v3i2.130>.
- Jia, Y., Quack, B., Kinley, R.D., Pisso, I., Tegtmeier, S., 2022. Potential environmental impact of bromoform from *Asparagopsis* farming in Australia. *Journal of Atmospheric Chemistry and Physics*. 22(11):7631-46.
- Jiang, H., Zou, D., Lou, W., Deng, Y., and Zeng, X., 2018. Effects of seawater acidification and alkalization on the farmed seaweed, *Pyropia haitanensis* (Bangiales, Rhodophyta), grown under different irradiance conditions. *Algal Research*, 31(March), 413–420. <https://doi.org/10.1016/j.algal.2018.02.033>.
- Kellaris, A., Gil, A., Faria, J., Amaral, R., Badia I.M., Neto, A., & Yesson C. 2019. Using low-cost drones to monitor heterogeneous submerged seaweed habitats: A case study in the Azores. *Aquatic Conserv: Mar Freshw Ecosyst*. 2019;1–14. <https://doi.org/10.1002/aqc.3189>.
- Khoerun, B., Fitriyanto, I. and Fatwasauri, I. 2025. Alat ukur kualitas air (suhu, ph, tds, kadar garam, dan kekeruhan)', *Jurnal Teknik Elektro*, 8(1), pp. 261–267.
- Kinley, R.D., de Nys, R., Vucko, M.J., Machado, L., and Tomkins, N.W., 2016a. The red macroalgae *Asparagopsis taxiformis* is a potent natural antimethanogenic that reduces methane production during in vitro fermentation with rumen fluid. *Anim. Journal of Prod. Sci.* 56, 282–289.
- Kladi, M., C. Vagias, and Roussis, V., 2004. Volatile halogenated metabolites from marine red algae. *Phytochem. Rev.* 3:337–366. <https://doi.org/10.1007/s11101-004-4155-9>.
- Komarlah, N., Laili, S., and Santoso, H., 2020. Diversitas makrofauna kaitannya dengan kualitas air sungai metro kecamatan lowokwaru kota malangthe macro fauna diversity relation to metro river water quality in lowokwaru district, malang city. *Jurnal Ilmiah Biosaintropis* (Bioscience-Tropic, 6(1), 28–32.

- Kusumawati, I., Diana, F., and Humaira, L., 2018. Studi kualitas air budidaya latoh (*Caulerpa racemosa*) di perairan lhok bubon kecamatan samatiga kabupaten aceh barat. *Jurnal Akuakultura*, 2(1). <https://doi.org/10.35308/ja.v2i1.781>.
- Lee, W. K., Lim, Y. Y., & Ho, C. L. 2019. pH affects growth, physiology and agar properties of agarophyte *Gracilaria changii* (Rhodophyta) under low light intensity from Morib, Malaysia. *Regional Studies in Marine Science*, 30, 100738. <https://doi.org/10.1016/j.rsma.2019.100738>.
- Li, D. *et al.* 2020. Detection methods of ammonia nitrogen in water: A review *TrAC - Trends in Analytical Chemistry*, 127, p. 115890. Available at: <https://doi.org/10.1016/j.trac.2020.115890>.
- Machado, L., M. Magnusson, N.A., Paul, R., Kinley, R., de Nys, and Tomkins, N., 2016b. Identification of bioactives from the red seaweed *Asparagopsis taxiformis* that promote antimethanogenic activity in vitro. *Journal of J. Appl. Phycol.* 28:3117–3126. <https://doi.org/10.1007/s10811-016-0830-7>.
- Mancuso F.P., D'Agostaro, R., Milazzo, M., Badalamenti, F., Musco, L., Mikac, B., 2022. The invasive seaweed *Asparagopsis taxiformis* erodes the habitat structure and biodiversity of native algal forests in the Mediterranean Sea. *Journal of Marine Environmental Research*. 173:105515.
- Manilal, A., Selvin, J., & Sugathan, S. 2013. Immuno-Modulatory Efficacy of Indian Red Algae, *Asparagopsis taxiformis*, in *Penaeus monodon*. *Journal of Applied Aquaculture*, 25(1), 81–93. <https://doi.org/10.1080/10454438.2013.763514>.
- Marino, F., Caro, G. Di, Gugliandolo, C., Spanò, A., Faggio, C., Genovese, G., Morabito, M., Russo, A., Barreca, D., Fazio, F., & Santulli, A. 2016. *Preliminary Study on the In vitro and In vivo Effects of Asparagopsis taxiformis Bioactive Phycoderivates on Teleosts*. 7(October), 1–11. <https://doi.org/10.3389/fphys.2016.00459>.
- Mata, L., Lawton, R.J., Magnusson, M., Andreakis, N., de Nys, R., and Paul N.A., 2017. Within-species and temperature-related variation in the growth and natural products of the red alga *Asparagopsis taxiformis*. *Journal of Applied Phycology*. 29:1437-47.
- Mustafa, A., Hasnawi, H., Athirah, A., Sommeng, A., dan Ali, S.A., 2014. Karakteristik, Kesesuaian, Dan Pengelolaan Lahan Untuk Budidaya Di Tambak Kabupaten Pohuwato Provinsi Gorontalo. *Jurnal Riset Akuakultur*, 9(1), 135. <https://doi.org/10.15578/jra.9.1.2014.135-149>.
- Navarro-Barranco, C., Florido, M., Ros, M., Gonzalez-Romero, P., and Perang-Garcia, J.M., 2018. Impoverished mobile epifaunal assemblages associated with the invasive macroalga *Asparagopsis taxiformis* in the Mediterranean Sea. *Journal of Marine Environmental Research* <https://www.sciencedirect.com/science/article/pii/S0141113618303921>.

- Padilla-Gamino, J.L., and Carpenter, R.C., 2007. Seasonal acclimatization of *Asparagopsis taxiformis* (Rhodophyta) from different biogeographic regions. *Journal of Limnology and oceanography*. 52(2):833-42.
- Paena, M., & Rangka, N. A. 2012. Potential and suitability of land seaweed farming (*kappaphycus alvarezii*) water around the district Wakatobi Southeast Sulawesi. *Jurnal Ilmiah Perikanan Dan Kelautan*, 4(2), 151–159. <https://doi.org/10.20473/jipk.v4i2.11566>.
- Pang, T., Liu, J., Liu, Q., Li, H., and Li, J., 2015. Observations on pests and diseases affecting a eucheumatoid farm in China. *J Appl Phycol* 27:1975–1984.
- Parera, L.M., Tupan, H.K., dan Puturu, V., 2018. Analisis pengaruh intensitas penerangan pada laboratorium dan bengkel jurusan teknik elektro. *Jurnal simetrik*, 8(1), 60–67. <https://doi.org/10.31959/js.v8i1.72>.
- Patty, S. I., Arfah, H., & Abdul, M. S. 2015. Zat hara fosfat nitrat oksigen terlarut dan pH kaitannya dengan kesuburan di Perairan Jikumerasa, Pulau Buru. *Jurnal Pesisir Dan Laut Tropis*, 3(1), 43. <https://doi.org/10.35800/jplt.3.1.2015.9575>.
- Paul, N., R. de Nys, and Steinberg, P., 2006. Chemical defence against bacteria in the red alga *Asparagopsis armata*: linking structure with function. *Journal of Mar. Ecol. Prog. Ser.* 306:87–101. <https://doi.org/10.3354/meps306087>.
- Peteiro, C., and Freire, O., 2011. Effect of water motion on the cultivation of the commercial seaweed *Undaria pinnatifida* in a coastal bay of Galicia, Northwest Spain. *Aquaculture* 314: 269–276.
- Pramesti, R. 2013. Aktivitas antioksidan ekstrak rumput laut *Caulerpa serrulata* dengan metode DPPH (1,1 difenil 2 pikrilhidrazil). *Buletin Oseanografi Marina*, 2(April 2013), 7–15. <https://doi.org/10.14710/buloma.v2i2.6931>.
- Prima, C. De et al. 2016. Analisis sebaran spasial kualitas perairan teluk jakarta <http://ejournal-s1.undip.ac.id/index.php/maquares>, 5, pp. 51–60
- Putri, A.A.K., Diansyah, G., dan Putri, W.A.E., 2022. Analisis tinggi gelombang signifikan berdasarkan model wavewatch-iii di pantai alau-alau, kalianda, lampung selatan. *Buletin Oseanografi Marina*, 11(2), 123–130. <https://doi.org/10.14710/buloma.v11i2.39567>.
- Putri, W.A.E., Purwiyanto, A.I.S., Fauziyah., Agustriani, F., dan Suteja, Y., 2019. Kondisi nitrat, nitrit, amonia, fosfat dan bod di muara sungai banyuasin, sumatera selatan. *Jurnal Ilmu Dan Teknologi Kelautan Tropis*, 11(1), 65–74. <https://doi.org/10.29244/jitkt.v11i1.18861>.
- Rachmawati, S., dan Abdillah, A.A., 2019. Studi Pertumbuhan Bibit Rumput Laut (*Kappaphycus alvarezii*) Hasil Kultur Jaringan dengan Metode Longline Berbingkai di Balai Besar Perikanan Budidaya Laut Lampung. *Jurnal Perikanan Pantura*. 2(1): 1-9.
- Rahmadanty, A. S. S., Ambariyanto, A., & Munasik, M. 2022. Analisa Kesesuaian Perairan untuk Pengembangan Wisata Bahari Di Pantai Karang Jahe,

- Rembang. *Journal of Marine Research*, 11(3), 383–390. <https://doi.org/10.14710/jmr.v11i3.34278>.
- Rendiansyah, R., Arbit, N. I. S., & Saharuddin, S. 2024. Pengaruh pemberian pupuk urea dengan dosis berbeda terhadap pertumbuhan rumput laut (*caulerpa lentillifera*). *Jurnal Teknologi Perikanan Dan Kelautan*, 15(1), 11–20. <https://doi.org/10.24319/jtpk.15.11-20>.
- Ridwan, M., Suryono and Azizah, R. 2018. Nutritional content study of the mangrove ecosystem of the Semarang Coastal Watershed of Semarang City', *Journal of Marine Research*, 7(4), pp. 283–292.
- Risnawati, Kasim, M., dan Haslianti., 2018. Studi kualitas air kaitanya dengan pertumbuhan rumput laut (*kappaphycus alvarezii*) pada rakit jaring apung di perairan pantai lakeba kota bau-bau sulawesi tenggara. *Jurnal Manajemen Sumber Daya Perairan*, 4(2), 155–164.
- Romimmohtarto K dan Juwana, S. 2005. Biologi Laut. Penerbit Djambatan. Jakarta. 540 Hlm.
- Roque, B.M., Venegas, M., Kinley, R.D., de, Nys R., Duarte, T.L, Yang, X., 2021. Red seaweed (*Asparagopsis taxiformis*) supplementation reduces enteric methane by over 80 percent in beef steers. *Journal of Plos one*. 16(3): e0247820.
- Ruslaini, dan Iba, W., 2011. Studi kondisi kualitas air budidaya rumput laut (*gracilaria verrucosa*) pada tambak tanah sulfat masam (studi kasus di kecamatan moramo, kabupaten konawe selatan, provinsi sulawesi tenggara). *Journal of Aqua Hayati*. 7(3): 189 – 195.
- Safia, W., Budiyaniti, dan Musrif. 2019. Pertumbuhan dan kandungan karaginan rumput laut (*Euchema cottonii*) dengan menggunakan pengembangan metode rakit gantung pada kedalaman berbeda. *Prosiding Seminar Nasional (SIMPT)*, 2, 101–108.
- Samson, E., Sigmarlatu, V., & Wakano, D. 2020. Keanekaragaman dan Kerapatan Jenis Mangrove di Desa Kase Kecamatan Leksula Kabupaten Buru Selatan. *BioWallacea : Jurnal Penelitian Biologi (Journal of Biological Research)*, 7(1), 1055. <https://doi.org/10.33772/biowallacea.v7i1.11036>.
- Sarker, S., Akter, M., Rahman, M.S., Islam, M.M., Hasan, O., Kabir, M.A., dan Rahman, M.M., 2021. Spatial prediction of seaweed habitat for mariculture in the coastal area of Bangladesh using a Generalized Additive Model. *Algal Research*, 60(July), 102490. <https://doi.org/10.1016/j.algal.2021.102490>.
- Simatupang, N. F., Pong-Masak, P. R., Ratnawati, P., Agusman, Paul, N. A., & Rimmer, M. A. 2021. Growth and product quality of the seaweed *Kappaphycus alvarezii* from different farming locations in Indonesia. *Aquaculture Reports*, 20(April), 100685. <https://doi.org/10.1016/j.aqrep.2021.100685>.

- Stefenoni, H.A., Raisanen, S.E., Cueva, S.F., Wasson, D.E., C.F., Lage, A., Melgar, M.E., Fetter, P., Smith, M., Hennessy, B., Vecchiarelli, J., Bender, D., Pitta, C.L., Cantrell, C., Yarish, and Hristov, A.N., 2021. Effects of the macroalga *Asparagopsis taxiformis* and oregano leaves on methane emission, rumen fermentation, and lactational performance of dairy cows. *Journal of J. Dairy Sci.* 104:4157–4173. <https://doi.org/10.3168/jds.2020-19686>.
- Susilowati, T., Rejeki, S., Dewi, E.N., dan Zulfetriani., 2012. Pengaruh kedalaman terhadap pertumbuhan rumput laut (*eucheuma cottonii*) yang dibudidayakan dengan metode longline di pantai mlonggo, kabupten jepara. *Jurnal Saintek Perikanan*, 8(1), 7–12. <https://doi.org/10.14710/ijfst.8.1.7-12>.
- Tarigan, M.S. and . Edward. 2003. Kandungan total zat padat tersuspensi (total suspended solid) di perairan raha, sulawesi tenggara. *MAKARA of Science Series*, 7(3). Available at: <https://doi.org/10.7454/mss.v7i3.362>.
- Tasnim, R., Sarker, S., Chamily, F.A., Mohiuddin, M., Ferdous, A., Haque, A.B.M.M., Nahiduzzaman, M., Wahab, M.A., Rahman, M.M., and Asaduzzaman, M., 2024. Site suitability mapping for different seaweed cultivation systems along the coastal and marine waters of Bangladesh: A Generalized Additive Modelling approach for prediction. *Algal Research*, 78(July 2023), 103404. <https://doi.org/10.1016/j.algal.2024.103404>.
- Tell, Y. 2020. Analisis teknis dan faktor pendukung keberhasilan budidaya rumput laut di perairan alor besar. *Jurnal Akuakultura Universitas Teuku Umar*, 4(2), 21. <https://doi.org/10.35308/ja.v4i2.3455>.
- Thepot, V., Campbell, A. H., Rimmer, M. A., Jelocnik, M., Johnston, C., Evans, B., & Paul, N. A. 2022. Dietary inclusion of the red seaweed *Asparagopsis taxiformis* boosts production, stimulates immune response and modulates gut microbiota in Atlantic salmon, *Salmo salar*. *Aquaculture*, 546(July 2021). <https://doi.org/10.1016/j.aquaculture.2021.737286>.
- Thepot, V., Campbell, A.H., Rimmer, M.A., Jelocnik, M., Johnston, C., Evans, B., and Paul, N.A., 2021. Dietary inclusion of the red seaweed *Asparagopsis taxiformis* boosts production, stimulates immune response and modulates gut microbiota in Atlantic salmon, *Salmo salar*. *Journal of Aquaculture*, 546, p.737286.
- Torres, R., Campos, A.M., Goldman, J., Barrote, I., Mata, L., and Silva, J., 2023. Effects of light quality and intensity on growth and bromoform content of the red seaweed *Asparagopsis taxiformis*. *Journal of Applied Phycology*, 2022. <https://doi.org/10.1007/s10811-023-03052-6>.
- Tresnati, J., Inayah, Y., Tuwo, A., 2022. Rumput Laut untuk Ketahanan Pangan, Mitigasi Lingkungan, Kesejahteraan dan Pembangunan Berkelanjutan. Yogyakarta: Deepublish.
- Triatmodjo, B., 1999. Teknik Pantai. Penerbit Beta Offset. Yogyakarta. P.1-405
- Triyulianti, iis, Radiarta, I. N., Yunanto, A., Arinda Pradistya, N., Islami, F., & R Putri, M. 2018. The marine carbonate system at maluku and sulawesi seas. *JFMR-*

*Journal of Fisheries and Marine Research*, 2(3), 192–207.  
<https://doi.org/10.21776/ub.jfmr.2018.002.03.8>.

- Tuwo, A., Auliana, R., Samawi M, F., Aprianto, R., Tresnati, J., 2020. Feasibility study of seaweed farming *Kappaphycus alvarezii* in Sub-District North Pulau Laut and Sub-District East Pulau Laut Kota baru Regency, South Borneo, Indonesia. IOP Conf Ser: *Earth Environ Sci*, UK; Makassar, Indonesia: IOP Publisher.
- Ulqodry, T.Z., Bengen, D.G., Richardus, D., dan Kaswadji, F., 2010. Karakteristik perairan mangrove Tanjung Api-api Sumatera Selatan berdasarkan sebaran parameter lingkungan perairan dengan menggunakan analisis komponen utama (PCA). *Maspari Journal*, 01, 16–21.  
<http://masparijournal.blogspot.com>.
- Watanabe, H., Ito, M., Matsumoto, A., and Arakawa, H., 2016. Effects of sediment influx on the settlement and survival of canopy-forming macrophytes. *Scientific Reports*, 6, 4–5. <https://doi.org/10.1038/srep18677>.
- Westmeijer, G., Everaert, G., Pirllet, H., De Clerck, O., and Vandegehuchte, M.B., 2019. Mechanistic niche modelling to identify favorable growth sites of temperate macroalgae. *Algal Research*, 41(May), 101529. <https://doi.org/10.1016/j.algal.2019.101529>.
- Wu, H., Kim, J.K., Huo, Y., Zhang, J., and He, P., 2017. Nutrient removal ability of seaweeds on *Pyropia yezoensis* aquaculture rafts in China's radial sandbanks. *Aquatic Botany*, 137, 72–79. <https://doi.org/10.1016/j.aquabot.2016.11.011>.
- Yang, Y.F., Fei, X.G., Song, J.M., Hu, H.Y., Wang, G.C., and Chung, I.K., 2006. Growth of *Gracilaria lemaneiformis* under different cultivation conditions and its effects on nutrient removal in Chinese coastal waters. *Aquaculture*, 254(1–4), 248–255. <https://doi.org/10.1016/j.aquaculture.2005.08.029>.
- Zanolla, M., Altamirano, M., Carmona, R., De La Rosa, J., Sherwood, A., and Andreakis, N., 2015. Photosynthetic plasticity of the genus *Asparagopsis* (Bonnemaisoniales, Rhodophyta) in response to temperature: implications for invasiveness. *Journal of Biological Invasions*, 17(5), pp.1341-1353.
- Zanolla, M., Altamirano, M., Niell, F.X., and Carmona, R., 2019. There is more than meets the eye: Primary production of the invasive seaweed *Asparagopsis taxiformis* (Bonnemaisoniaceae, Rhodophyta) is provided by six cohorts with distinctive characteristics. *Aquatic Botany*, 153(November 2018), 24–28. <https://doi.org/10.1016/j.aquabot.2018.11.007>.
- Zhu, P., Li, D., Yang, Q., Su, P., Wang, H., Heimann, K., and Zhang, W., 2021. Commercial cultivation, industrial application, and potential halocarbon biosynthesis pathway of *Asparagopsis* sp. *Journal of Algal Research*, 56, Article 102319.