DAFTAR PUSTAKA

Abdi, H., & Williams, L. J. (2010). Principal Component Analysis. *Wiley Interdisciplinary Reviews: Computational Statistics*, *2*. https://api.semanticscholar.org/CorpusID:122379222

Abdou, M., & Tercier-waeber, M. (2022). New insights into trace metal speciation and interaction with phytoplankton in estuarine coastal waters. *Marine Pollution Bulletin*, *181*(February), 113845. https://doi.org/10.1016/j.marpolbul.2022.113845

Abu Shmeis, R. M. (2018). Water Chemistry and Microbiology. In *Comprehensive Analytical Chemistry* (1st ed., Vol. 81). Elsevier B.V. https://doi.org/10.1016/bs.coac.2018.02.001

Abubakar, S., Akbar, N., Baksir, A., Umasangadji, H., Najamuddin, N., Tahir, I., Paembonan, R. E., & Ismail, F. (2021). Spatial and Temporal Distribution Of Pyhtoplankton In The Tropical Sea. *Jurnal Kelautan*, *14*(2), 149–163. https://doi.org/10.21107/jk.v14i2.10285

Achmadi, L. G., Amir, I. T., & Priyanto, E. (2022). Efficiency of Use of Production Factors of Gourami Raising Business in Bendiljati Wetan Village, Sumbergempol District, Tulungagung Regency. *Ilmiah Mahasiswa Agroinfo Galuh*, *9*(3), 896–906.

Adhar, S., Erlangga, E., Rusydi, R., Mainisa, M., Khalil, M., Muliani, M., Ayuzar, E., & Hatta, M. (2022). Pemodelan Status Trofik Danau Laut Tawar Aceh Tengah. *Jurnal Serambi Engineering*, *7*(2), 2841–2851. https://doi.org/10.32672/jse.v7i2.4022

Aini, A. I. N., & A, S. M. K. (2023). Identifikasi Keanekaragaman Plankton Sebagai Bioindikator Pencemaran Air di Sungai Brantas. *Environmental Pollution Journal*, *2*(2), 369–378. https://doi.org/10.58954/epj.v2i2.45

Aisoi, L. E. (2019). Kelimpahan dan keanekaragaman fitoplankton di perairan pesisir holtekamp kota jayapura. *JURNAL BIOLOGI*, *2*(1), 6–15. https://doi.org/10.31540/biosilampari.v2i1.620

Aisyah, D. (2019). *Tingkat Pencemaran Berdasarkan Indeks Saprobik Dan Struktur Komunitas Fitoplankton di Perairan Pantai Ujungnegoro, Kabupaten Batang, Jawa Tengah*. https://api.semanticscholar.org/CorpusID:209926220

Ajayan, A. P., & K. G. Ajit Kumar. (2018). Phytoplankton as biomonitors : A study of Museum Lake in Government Botanical Garden and Museum, Thiruvananthapuram, Kerala India. *ResearchGate*, *22*(January), 403–415. https://doi.org/10.1111/lre.12199

Albarico, B., F. P. J., Wen, C., Lim, C., Cheng, Y., Wang, M. H., Chen, C. F., & Dong, C. Di. (2022). Non-proportional distribution and bioaccumulation of metals between phytoplankton and zooplankton in coastal waters. *Marine Pollution Bulletin*, *184*(June), 114168. https://doi.org/10.1016/j.marpolbul.2022.114168

Albarico, F. P. J. B., Chiu, C. W., Lim, Y. C., Wang, M. H., Chuang, Y., & Dong, C. Di. (2022). Driving factors of phytoplankton trace metal concentrations and distribution along anthropogenically-impacted estuaries of southern Taiwan. *Regional Studies in Marine Science*, *56*, 102610. https://doi.org/10.1016/j.rsma.2022.102610

Albright, T. P., Moorhouse, T. G., & McNabb, T. J. (2004). The rise and fall of water hyacinth in Lake Victoria and the Kagera River basin, 1989-2001. *Journal of Aquatic Plant Management Volume*, *42*(July), 73–84.

Ardi, H., Rudiyanti, S., & Sulardiono, B. (2017). Hubungan Logam Berat Timbal (Pb) dan Kadmium (Cd) Terlarut dengan Kelimpahan Fitoplankton di Sungai Silandak Semarang. *Management of Aquatic Resources Journal (MAQUARES)*, *5*(4), 388–397. https://doi.org/10.14710/marj.v5i4.14639

Aryani, D., Astuti, L. P., Syam, A. R., & Prama, E. A. (2021). Trophic Status Based On Nitrate, Phospate And Chlorophyll-a In the Ir. H. Djuanda reservoir, Purwakarta Regency, West Java. *Marlin*, *2*(1), 21. https://doi.org/10.15578/marlin.v2.i1.2021.21-30

Ayuningsih, M. S., Hendrarto, I. B., & Purnomo, P. W. (2014). Distribution and Abundance of Phytoplankton and Chorophyll-a in the Sekumbu Bay Jepara Regency: Relationship with Nitrate and Phosphate Content in Water. *Diponegoro Journal of Maquares*, *3*(2), 138–147. http://ejournal-s1.undip.ac.id/index.php/maquares

BadrElDin, A. M., Badr, N. B. E., & Hallock, P. M. (2022). Evaluation of trace-metal pollution in sediment cores from Lake Edku, Egypt. *Regional Studies in Marine Science*, *53*, 102454. https://doi.org/https://doi.org/10.1016/j.rsma.2022.102454

Balqis, N. (2021). *Keanekaragaman dan kelimpahan fitoplankton di perairan ekosistem mangrove Desa Rantau Panjang, Kecamatan Rantau Selamat, Kabupaten Aceh Timur*. https://api.semanticscholar.org/CorpusID:237979879

Barbosa, A. B., & Chícharo, M. A. (2012). Hydrology and Biota Interactions as Driving Forces for Ecosystem Functioning. In *Treatise on Estuarine and Coastal Science* (Vol. 10). Elsevier Inc. https://doi.org/10.1016/B978-0-12-374711-2.01002-0

Bi, C., Zhou, Y., Chen, Z., Jia, J., & Bao, X. (2018). Heavy metals and lead isotopes in soils, road dust and leafy vegetables and health risks via vegetable consumption in the industrial areas of Shanghai, China. *Science of the Total Environment*, *619–620*, 1349–1357. https://doi.org/10.1016/j.scitotenv.2017.11.177

Bimantoro, S. (2022). *Analisis Risiko Logam Berat Pb, Hg dan As Pada Daging Ikan Nila (Oreochromis niloticus) Terhadap Kesehatan Masyarakat di Danau Maninjau*. Universitas Andalas.

Biswas, S., Prabhu, R. K., Vijayalakshmi, S., & Panigrahy, R. C. (2017). Concentration of heavy metals in the food chain components of the nearshore coastal waters of Kalpakkam , southeast coast of India. *Food Control*, *72*, 232–243. https://doi.org/10.1016/j.foodcont.2016.04.028

Bro, R., & Smilde, A. K. (2014). Principal component analysis. *Analytical Methods*, *6*(9), 2812–2831. https://doi.org/10.1039/c3ay41907j

Bužančić, M., Gladan, Ž. N., Marasovic, I., Kušpilić, G., & Grbec, B. (2016). Eutrophication in fl uence on phytoplankton community composition in three bays on the eastern Adriatic coast. *Oceanologia*, *58*, 302–316. https://doi.org/10.1016/j.oceano.2016.05.003

Carlson, R. E. (1977). *A trophic state index for lakes1*. *22*(2).

Cempel, M., & Nikel, G. (2006). Nickel : A Review of Its Sources and Environmental Toxicology. *Environmental Toxicology*, *15*(3), 375–382.

Chang, X., Chin, H., Quek, S., Goh, D. Y. T., & Dorajoo, R. (2017). The genetic variation rs6903956 in the novel androgen-dependent tissue factor pathway inhibitor regulating protein (ADTRP) gene is not associated with levels of plasma coagulation factors in the Singaporean Chinese. *Thrombosis Journal*, 4–9. https://doi.org/10.1186/s12959-016-0124-y

Chatto Paylangco, J. C., Gamalinda, E. F., Seronay, R. A., & Jumawan, J. C. (2021). Assessment of Macroinvertebrates as Bioindicators of Water Quality in the Littoral Zone of Lake Mainit, Philippines. *Asian Journal of Biological and Life Sciences*, *9*(3), 371–378. https://doi.org/10.5530/ajbls.2020.9.56

Chen, Q., Zhao, J., Gao, Q., Liu, H. X., & Han, X. M. (2021). Trophic state footprint index model and its application to Dianchi Lake, China. *Ecological Indicators*, *132*(August), 108317. https://doi.org/10.1016/j.ecolind.2021.108317

Couture, R. M., De Wit, H. A., Tominaga, K., Kiuru, P., & Markelov, I. (2015). Oxygen dynamics in a boreal lake responds to long-term changes in climate, ice phenology, and

DOC inputs. *Journal of Geophysical Research: Biogeosciences*, *120*(11), 2441–2456. https://doi.org/10.1002/2015JG003065

Cremon, H., da Silva, A. M. S., & Montanher, O. C. (2020). Estimating the suspended sediment concentration from TM/Landsat-5 images for the Araguaia River–Brazil. *Remote Sensing Letters*, *11*(1), 47–56. https://doi.org/10.1080/2150704X.2019.1681597

Ding, X., Xu, W., Li, Z., Huang, M., & Wen, J. (2021). Phosphate hinders the complexation of dissolved organic matter with copper in lake waters. *Environmental Pollution*, *276*, 116739. https://doi.org/10.1016/j.envpol.2021.116739

Dodds, W. K., & Whiles, M. R. (2020). Trophic State and Eutrophication. In *Freshwater Ecology*. https://doi.org/10.1016/b978-0-12-813255-5.00018-1

Dong, F., Zhu, X., Qian, W., Wang, P., & Wang, J. (2020). Combined effects of CO2-driven ocean acidification and Cd stress in the marine environment: Enhanced tolerance of Phaeodactylum tricornutum to Cd exposure. *Marine Pollution Bulletin*, *150*, 110594. https://doi.org/https://doi.org/10.1016/j.marpolbul.2019.110594

Ebol, E. L., Donoso, C. H., Saura, R. B. D., Ferol, R. J. C., Mozar, J. R. D., Bermon, A. N., Manongas, J., Libot, J. C. H., Matabilas, C. J., Jumawan, J. C., & Capangpangan, R. Y. (2020). Heavy Metals Accumulation in Surface Waters, Bottom Sediments and Aquatic Organisms in Lake Mainit, Philippines. *International Letters of Natural Sciences*, *79*, 40–49. https://doi.org/10.18052/www.scipress.com/ilns.79.40

ECB. (2008). *European Union risk assessment report: Nickel* (European C, Vol. 82). Joint Research Centre.

Elmorsi, R. R., Hamed, M. A., & Abou-El-Sherbini, K. S. (2017). Physicochemical properties of manzala lake, Egypt. *Egyptian Journal of Chemistry*, *60*(4), 519–535. https://doi.org/10.21608/ejchem.2017.776.1025

Fakhrudin, M., Wibowo, H., Subehi, L., & Ridwansyah, I. (2002). Karakterisasi Hidrologi Danau Maninjau Sumbar. *Prosiding Seminar Nasional Limnologi*, *April 2018*, 65–75.

Fan, Z., Wang, W., Tang, C., Li, Y., Wang, Z., & Lin, S. (2019). *Targeting Remediation Dredging by Ecological Risk Assessment of Heavy Metals in Lake Sediment : A Case Study of Shitang Lake , China*.

Fedor, P. J. (2013). Shannon-Wiener Index. In *Reference Module in Earth Systems and Environmental Sciences* (Issue June). Elsevier Inc. https://doi.org/10.1016/B978-0-12-409548-9.00602-3

Flower, R. J., & Williams, D. M. (2023). Diatomites: Their formation, distribution and uses. In *Reference Module in Earth Systems and Environmental Sciences*. Elsevier. https://doi.org/https://doi.org/10.1016/B978-0-323-99931-1.00080-5

Fritz, M., & D.Berger, P. (2015). Comparing more than two means: one factor ANOVA with a withinsubject design. In *Improving the User Experience Through Practical Data Analytics* (pp. 163–185). Elsevier Inc. https://doi.org/10.1016/B978-0-12-800635-1.00007-0

Fukushima, T., Setiawan, F., Subehi, L., Fakhrudin, M., Triwisesa, E., Dianto, A., & Matsushita, B. (2022). Convection of waters in Lakes Maninjau and Singkarak, tropical oligomictic lakes. *Limnology*, *23*(2), 375–383. https://doi.org/10.1007/s10201-021-00686-8

Garai, P., Banerjee, P., Mondal, P., & Saha, N. C. (2021). Effect of Heavy Metals on Fishes: Toxicity and Bioaccumulation. *Journal of Clinical Toxicology*, *11*, 1. https://www.researchgate.net/profile/Pradip-Mondal/publication/353848075_Effect_of_Heavy_Metals_on_Fishes_Toxicity_and_Bioaccumulation/links/61153ed9169a1a0103f92103/Effect-of-Heavy-Metals-on-Fishes-Toxicity-and-Bioaccumulation.pdf

Gauthier, P. T., Blewett, T. A., Garman, E. R., Schlekat, C. E., & Elizabeth, T. (2021). Environmental risk of nickel in aquatic Arctic ecosystems. *Science of the Total Environment*, *797*, 39.

Ge, J., Shen, Y., Wang, W., Li, Y., & Yang, Y. (2021). N-doped carbon dots for highly sensitive and selective sensing of copper ion and sulfide anion in lake water. *Journal of Environmental Chemical Engineering*, *9*(2), 105081. https://doi.org/10.1016/j.jece.2021.105081

Gharib, S. M., El-sherif, Z. M., Abdel-halim, A. M., & Radwan, A. A. (2011). Phytoplankton and environmental variables as a water quality indicator for the beaches at Mediterranean Sea , Egypt : an assessment. *Oceanologia*, *53*(3), 819–836. https://doi.org/10.5697/oc.53-3.819

Ghosh, A., Yash, Kumar, C., & Bhadury, P. (2024). Cascading effects of trace metals enrichment on phytoplankton communities of the River Ganga in South Asia. *Chemosphere*, *347*, 140607. https://doi.org/https://doi.org/10.1016/j.chemosphere.2023.140607

Giardino, C., Bresciani, M., Braga, F., Cazzaniga, I., De Keukelaere, L., Knaeps, E., & Brando, V. E. (2017). Bio-optical Modeling of Total Suspended Solids. In *Bio-optical Modeling and Remote Sensing of Inland Waters*. Elsevier Inc. https://doi.org/10.1016/B978-0-12-804644-9.00005-7

Göltenboth, F., & Lehmusluoto, P. (2006). Lakes. *Ecology of Insular Southeast Asia*, 95–138. https://doi.org/10.1016/B978-044452739-4/50008-5

Graham, J. L., Jones, J. R., Jones, S. B., Downing, J. A., & Clevenger, T. E. (2004). Environmental factors influencing microcystin distribution and concentration in the Midwestern United States. *Water Research*, *38*(20), 4395–4404. https://doi.org/https://doi.org/10.1016/j.watres.2004.08.004

Greenberg, A. E., Clesceri, lenore S., & Eaton, A. D. (Eds.). (1992). *Standard Methods for the Examination of Water and Wastewater 18th Edition*.

Güereña, D., Neufeldt, H., Berazneva, J., & Duby, S. (2015). Water hyacinth control in Lake Victoria : Transforming an ecological catastrophe into economic , social , and environmental benefits. *Sustainable Production and Consumption*, *June*, 1–11. https://doi.org/10.1016/j.spc.2015.06.003

Hadi, Y. S., Japa, L., & Zulkifli, L. (2023). Bacillariophyceae Diversity as Bioindicator of Pollution in the Coastal Waters of Klui Beach, North Lombok. *Jurnal Biologi Tropis*, *23*(1), 86–92. https://doi.org/10.29303/jbt.v23i1.4387

Han, Q., Tong, R., Sun, W., Zhao, Y., Yu, J., Wang, G., Shrestha, S., & Jin, Y. (2020). Anthropogenic influences on the water quality of the Baiyangdian Lake in North China over the last decade. *Science of the Total Environment*, *701*, 134929. https://doi.org/10.1016/j.scitotenv.2019.134929

Hariyadi, S., Nugraha Bagoes Soegesty, N. T. P., & Yuni Wulandari, D. (2020). Trophic Status Determination Based on Several Approaches (Case Study: Cirata Reservoir). *Jurnal Biologi Indonesia*, *16*(1), 89–98. https://doi.org/10.47349/jbi/16012020/89

Hatta, I., Asriyana, & Salwiyah. (2021). Trophic Status of Waters around the Nii Tanasa Steam Power Plant Nii Tanasa Village Lalonggasumeeto District Konawe Regency. *Jurnal Manajemen Sumber Daya Perairan*, *6*(4), 236–243.

He, X. C., Yang, T. L., Shen, S. L., Xu, Y. S., & Arulrajah, A. (2019). Land subsidence control zone and policy for the environmental protection of Shanghai. *International Journal of Environmental Research and Public Health*, *16*(15), 1–13. https://doi.org/10.3390/ijerph16152729

Heisler, J., Glibert, P. M., Burkholder, J. M., Anderson, D. M., Cochlan, W., Dennison, W.

C., Dortch, Q., Gobler, C. J., Heil, C. A., Humphries, E., Lewitus, A., Magnien, R., Marshall, H. G., Sellner, K., Stockwell, D. A., Stoecker, D. K., & Suddleson, M. (2008). *Eutrophication and harmful algal blooms : A scientific consensus*. *8*, 3–13. https://doi.org/10.1016/j.hal.2008.08.006

Helviza, Hafrijal, S., & Azrita. (2019). Status Pencemaran, Status Trofik Dan Logam Berat Di Perairan Danau Maninjau Kabupaten Agam. *Article of Undergraduate Research, Faculty of Fisheries and Marine Science, Bung Hatta University*, *15*(1).

Horan, N. J. (2003). Faecal indicator organisms. In *Handbook of Water and Wastewater Microbiology* (pp. 105–112). https://doi.org/10.1016/B978-012470100-7/50008-X

Hou, D., He, J., Lü, C., Ren, L., Fan, Q., Wang, J., & Xie, Z. (2013). Distribution characteristics and potential ecological risk assessment of heavy metals (Cu, Pb, Zn, Cd) in water and sediments from Lake Dalinouer, China. *Ecotoxicology and Environmental Safety*, *93*, 135–144. https://doi.org/https://doi.org/10.1016/j.ecoenv.2013.03.012

Huang, L., Fang, H., Fazeli, M., Chen, Y., He, G., & Chen, D. (2015). Mobility of phosphorus induced by sediment resuspension in the Three Gorges Reservoir by flume experiment. *Chemosphere*, *134*, 374–379. https://doi.org/10.1016/j.chemosphere.2015.05.009

Ibrahim, A., Sudarso, J., Imroatushshoolikhah, I., Toruan, R. L., & Sari, L. (2021). Penggunaan Makrozoobentos Dalam Penilaian Kualitas Perairan Sungai Inlet Danau Maninjau, Sumatera Barat. *Jurnal Ilmu Lingkungan*, *19*(3), 649–660. https://doi.org/10.14710/jil.19.3.649-660

Indrayani, E., Handoyo Nitimulyo, K., Hadisusanto, S., & Rustadi. (2015). Analisis Kandungan Nitrogen, Fosfor dan Karbon Organik di Danau Sentani Papua. *Jurnal Manusia Dan Lingkungan*, *22*(2), 217–225.

Inwongwan, S., Kruger, N. J., Ratcliffe, R. G., & O'neill, E. C. (2019). Euglena central metabolic pathways and their subcellular locations. *Metabolites*, *9*(6). https://doi.org/10.3390/metabo9060115

Irianto, E., & Triweko, R. (2019). *Eutrofikasi Waduk dan Danau: Permasalahan, Pemodelan, dan Upaya Pengendalian*. https://simantu.pu.go.id/personal/img-post/197810272006041002/post/20210218151816__F__Buku_Eutrofikasi_Waduk_dan_Danau.pdf

J.F.P. Galvin. (2016). Meteorology and Climate of the Tropics. In *European University Institute* (Vol. 2). https://doi.org/10.1007/978-3-319-70368-8_1

Jamshid, A. K., F, M., & S, O. (2016). *Effects of environmental parameters and nutrients on phytoplankton communities around the shrimp farm complexes in Bushehr Province , in the Persian Gulf*.

Jane, S. F., Hansen, G. J. A., Kraemer, B. M., Leavitt, P. R., Mincer, J. L., North, R. L., Pilla, R. M., Stetler, J. T., Williamson, C. E., Woolway, R. I., Arvola, L., Chandra, S., DeGasperi, C. L., Diemer, L., Dunalska, J., Erina, O., Flaim, G., Grossart, H. P., Hambright, K. D., … Rose, K. C. (2021). Widespread deoxygenation of temperate lakes. *Nature*, *594*(7861), 66–70. https://doi.org/10.1038/s41586-021-03550-y

Japa, L., Bahri, S., & Sedijani, P. (2019). Mengenal Fitoplankton untuk Penguatan Materi Kompetensi Dasar Protista Pada Siswa Jurusan IPA (Biologi) MA Hidayatul Muhsinin Desa Labulia Lombok Tengah. *Jurnal Pengabdian Magister Pendidikan IPA*, *1*(1). https://doi.org/10.29303/jpmpi.v1i1.231

Jeppesen, E., Brucet, S., Naselli-Flores, L., Papastergiadou, E., Stefanidis, K., Nõges, T., Nõges, P., Attayde, J. L., Zohary, T., Coppens, J., Bucak, T., Menezes, R. F., Freitas, F. R. S., Kernan, M., Søndergaard, M., & Beklioğlu, M. (2015). Ecological impacts of global warming and water abstraction on lakes and reservoirs due to changes in water

level and related changes in salinity. *Hydrobiologia*, *750*(1), 201–227. https://doi.org/10.1007/s10750-014-2169-x

Jia, J., Gao, Y., Zhou, F., Shi, K., Johnes, P. J., Dungait, J. A. J., Ma, M., & Lu, Y. (2020). Identifying the main drivers of change of phytoplankton community structure and gross primary productivity in a river-lake system. *Journal of Hydrology*, *583*(November 2019), 124633. https://doi.org/10.1016/j.jhydrol.2020.124633

Jiang, D., Chen, Y., & Ni, G. (2011). Effects of Total Phosphorus (TP) and Microbially Available Phosphorus (MAP) on Bacterial Regrowth in Drinking Water Distribution System. *Systems Engineering Procedia*, *1*, 124–129. https://doi.org/10.1016/j.sepro.2011.08.021

Jiang, Y., He, W., Liu, W., Qin, N., Ouyang, H., Wang, Q., Kong, X., He, Q., Yang, C., Yang, B., & Xu, F. (2014). The seasonal and spatial variations of phytoplankton community and their correlation with environmental factors in a large eutrophic Chinese lake (Lake Chaohu). *Ecological Indicators*, *40*, 58–67. https://doi.org/10.1016/j.ecolind.2014.01.006

Joanna, M.-B., Ska, M. T., Walter, Z., & Zalewski, M. (2003). Natural toxins from cyanobacteria. *Acta Biologica Cracoviensia Series Botanica*, *45(2)*(November 2002), 9–20.

Jollife, I. T., & Cadima, J. (2016). Principal component analysis: A review and recent developments. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, *374*(2065). https://doi.org/10.1098/rsta.2015.0202

Ju, Y. R., Lo, W. T., Chen, C. F., Chen, C. W., Huang, Z. L., & Dong, C. Di. (2019). Effect of metals on zooplankton abundance and distribution in the coast of southwestern Taiwan. *Environmental Science and Pollution Research*, *26*(33), 33722–33731. https://doi.org/10.1007/s11356-018-2169-x

Junqueira, T. P., Araújo, D. F., Harrison, A. L., Sullivan, K., Leybourne, M. I., & Vriens, B. (2023). Contrasting copper concentrations and isotopic compositions in two Great Lakes watersheds. *Science of the Total Environment*, *904*(May), 166360. https://doi.org/10.1016/j.scitotenv.2023.166360

Karntanut, W., & Pascoe, D. (2002). The toxicity of copper , cadmium and zinc to four different Hydra (Cnidaria : Hydrozoa). *Chemosphere*, *47*, 1059–1064.

Khaqiqoh, N., Purnomo, P. W., & Boedi, H. (2014). Pattern Of Phytoplankton Communities Change In The Banjir Kanal Barat River Semarang Based On Tide Level. *Diponegoro Journal of Maquares*, *3*(2), 92–101. http://ejournal-s1.undip.ac.id/index.php/maquares

Komala, P. S., Azhari, R. M., Hapsari, F. Y., Edwin, T., Ihsan, T., Zulkarnaini, & Harefa, M. (2022). Comparison of bioconcentration factor of heavy metals between endemic fish and aquacultured fish in Maninjau Lake, West Sumatra, Indonesia. *Biodiversitas*, *23*(8), 4026–4032. https://doi.org/10.13057/biodiv/d230821

Komala, P. S., Nur, A., & Nazhifa, I. (2019). Pengaruh Parameter Lingkungan Terhadap Kandungan Senyawa Organik Danau Maninjau Sumatera Barat. *Seminar Nasional Pembangunan Wilayah Dan Kota Berkelanjutan*, *1*(1). https://doi.org/10.25105/pwkb.v1i1.5289

Komala, P. S., Silvia, S., & Windi, S. (2023). Phytoplankton Dynamics and Its Relation to Physicochemical Parameters in the Dry Season of Maninjau Lake , West Sumatra , Indonesia. *Journal of Ecological Engineering*, *24*(9), 218–231.

Komala, P. S., Soeprobowati, T. R., Takarina, N. D., Subehi, L., Wojewódka-Przybył, M., Primasari, B., Edwin, T., Ridwan, R., Rahmadiningsih, E., & Mardatillah, R. (2023). Spatio-temporal Changes of Water Quality Based on Water Quality Index Method in Tropical Lake of Indonesia. *Water, Air, and Soil Pollution*, *234*(9).

https://doi.org/10.1007/s11270-023-06599-9
Komala, P. S., Zulkarnaini, & Kurniati, R. I. (2020). Carrying Capacity of Total Phosphate from Aquaculture Cage in Maninjau Lake. *Solid State Technology*, *63*(6), 12.
Kristi Arina. (2015). Analisis Tingkat Chemical Oxygen Demand (COD), Biochemical Oxygen Demand (BOD), dan Total Dissolve Solid (TDS) Air Laut di Perairan Teluk Lampung. In *Universitas Lampung*.
Kurniati, R. I., Komala, P. S., & Zulkarnaini, Z. (2021). Analisis Beban Pencemar Total Nitrogen dan Total Fosfat akibat Aktivitas Antropogenik di Danau Maninjau. *Jurnal Ilmu Lingkungan*, *19*(2), 355–364. https://doi.org/10.14710/jil.19.2.355-364
Lampiran VI Peraturan Pemerintah Republik Indonesia Nomor 22 Tahun 2021 Tentang Penyelenggaraan Perlindungan Dan Pengelolaan Lingkungan Hidup, 1 Sekretariat Negara Republik Indonesia 483 (2021). http://www.jdih.setjen.kemendagri.go.id/
Lee, Z. P., Shang, S., Hu, C., Du, K., Weidemann, A., Hou, W., Lin, J., & Lin, G. (2015). Secchi disk depth: A new theory and mechanistic model for underwater visibility. *Remote Sensing of Environment*, *169*, 139–149. https://doi.org/10.1016/j.rse.2015.08.002
Lehmann, M. K., Schütt, E. M., Hieronymi, M., Dare, J., & Krasemann, H. (2021). Analysis of recurring patchiness in satellite-derived chlorophyll a to aid the selection of representative sites for lake water quality monitoring. *International Journal of Applied Earth Observation and Geoinformation*, *104*(June), 102547. https://doi.org/10.1016/j.jag.2021.102547
Li, D., & Liu, S. (2019). Water Quality Monitoring in Aquaculture. *Water Quality Monitoring and Management*, 303–328. https://doi.org/10.1016/b978-0-12-811330-1.00012-0
Lin, S. S., Shen, S. L., Zhou, A., & Lyu, H. M. (2020). Sustainable development and environmental restoration in Lake Erhai, China. *Journal of Cleaner Production*, *258*. https://doi.org/10.1016/j.jclepro.2020.120758
Liu, D., Duan, H., Loiselle, S., Hu, C., Zhang, G., Li, J., Yang, H., Thompson, J. R., Cao, Z., Shen, M., Ma, R., Zhang, M., & Han, W. (2020). Observations of water transparency in China's lakes from space. *International Journal of Applied Earth Observation and Geoinformation*, *92*(April), 102187. https://doi.org/10.1016/j.jag.2020.102187
Liu, H., Probst, A., & Liao, B. (2005). Metal contamination of soils and crops affected by the Chenzhou lead/zinc mine spill (Hunan, China). *Science of The Total Environment*, *339*(1), 153–166. https://doi.org/https://doi.org/10.1016/j.scitotenv.2004.07.030
Madinawati. (2010). Kelimpahan dan Keanekaragaman Plankton Di Perairan Laguna Desa Tolongano Kecamatan Banawa Selatan. *Media Litbang Sulawesi Tengah*, *2*, 119–123.
Mancuso, J. L., Weinke, A. D., Stone, I. P., Hamsher, S. E., Villar-argaiz, M., & Biddanda, B. A. (2021). Cold and wet : Diatoms dominate the phytoplankton community during a year of anomalous weather in a Great Lakes estuary. *Journal of Great Lakes Research*, *47*(5), 1305–1315. https://doi.org/10.1016/j.jglr.2021.07.003
Mandaric, L., Celic, M., Marcé, R., & Petrovic, M. (2016). Introduction on emerging contaminants in rivers and their environmental risk. *Handbook of Environmental Chemistry*, *46*, 3–25. https://doi.org/10.1007/698_2015_5012
Marcotullio, P. J., Keßler, C., Gonzalez, R. Q., Schmeltz, M., & Gadda, T. M. (2021). Urban Growth and Heat in Tropical Climates. *Frontiers in Ecology and Evolution*, *9*(August). https://doi.org/10.3389/fevo.2021.616626
Marella, T., Saxena, A., & Tiwari, A. (2020). Diatom mediated heavy metal remediation: A review. *Bioresource Technology*, *305*(December 2019), 123068. https://doi.org/10.1016/j.biortech.2020.123068

Martín Hernándaez, E., Martín, M., & Ruiz-Mercado, G. J. (2021). A geospatial environmental and techno-economic framework for sustainable phosphorus management at livestock facilities. *Resources, Conservation and Recycling*, *175*. https://doi.org/10.1016/j.resconrec.2021.105843

Masithah, E. D. (2021). *Cyanophyceae* (C. Chotimmah (Ed.)). Airlangga University Press.

Mitrovic, S. M., Hitchcock, J. N., Davie, A. W., & Ryan, D. A. (2010). Growth responses of Cyclotella meneghiniana (Bacillariophyceae) to various temperatures. *Journal of Plankton Research*, *32*(8), 1217–1221. https://doi.org/10.1093/plankt/fbq038

Nasir, M., Nur, M., Pandiangan, D., Mambu, S. M., Fauziah, S., Raya, I., Fudholi, A., & Irfandi, R. (2022). Phytoremediation Study of Water Hyacinth (Eichhornia Crassipes) on Zinc Metal Ion (Zn2+). *International Journal of Design and Nature and Ecodynamics*, *17*(3), 417–422. https://doi.org/10.18280/ijdne.170312

Nhat., P. V. H., Ngo, H. H., Guo, W. S., Chang, S. W., Nguyen, D. D., Nguyen, P. D., Bui, X. T., Zhang, X. B., & Guo, J. B. (2018). Can algae-based technologies be an affordable green process for biofuel production and wastewater remediation? *Bioresource Technology*, *256*, 491–501. https://doi.org/10.1016/j.biortech.2018.02.031

Nikolenko, Y., & Fedonenko, E. (2020). Analysis of the content of heavy metals in phytoplankton of the Zaporizhia reservoir. *ScienceRise: Biological Science*, *0*(3(24)), 12–17. https://doi.org/10.15587/2519-8025.2020.210095

Nurdin, J., Irawan, D., Syandri, H., Nofrita, & Rizaldi. (2020). Phytoplankton and the correlation to primary productivity, chlorophyll-a, and nutrients in lake maninjau, west sumatra, indonesia. *AACL Bioflux*, *13*(3), 1689–1702.

Ohore, O. E., Addo, F. G., Zhang, S., Han, N., & Anim-Larbi, K. (2019). Distribution and relationship between antimicrobial resistance genes and heavy metals in surface sediments of Taihu Lake, China. *Journal of Environmental Sciences (China)*, *77*, 323–335. https://doi.org/10.1016/j.jes.2018.09.004

Okungu, J. O., Njoka, S., Abuodha, J. O. Z., & Hecky, R. E. L. (2023). *An introduction to Lake Victoria catchment , water quality , physical limnology and ecosystem status (Kenyan sector)*.

Orissa, P. B., Swasta, M. S. I. B. J., & Yudasmara, S. S. M. S. G. A. (2014). *Studi Komparatif Keanekaragaman Dan Kemelimpahan Fitoplankton Pada Ekosistem Lamun, Terumbu Karang, Mangrove Di Kawasan TNBB*. https://api.semanticscholar.org/CorpusID:131030073

Ouyang, W., Wang, Y., Lin, C., He, M., Hao, F., Liu, H., & Zhu, W. (2018). Heavy metal loss from agricultural watershed to aquatic system: A scientometrics review. *Science of the Total Environment*, *637–638*, 208–220. https://doi.org/10.1016/j.scitotenv.2018.04.434

Padma Priya K T, Y Seeta Reddy, & Manikya, P. (2022). Impact of Physico-Chemical Parameters on distribution and diversity of Euglenophyceae in Saroornagar Lake, Hyderabad. *International Journal of Scientific Research in Science and Technology*, *8*(5), 16–24. https://doi.org/10.32628/ijsrst22920

Paena, M., Syamsuddin, R., Rani, & Tandipayuk, H. (2020). *Analisa Struktur Komunitas Fitoplankton Dan Potensi Penggunaannya Sebagai Bioindikator Limbah Organik Di Teluk Labuange, Sulawesi Selatan*. https://api.semanticscholar.org/CorpusID:234764336

Paolo, F., Albarico, J. B., Cheng, Y., Wang, M., Ju, Y., Chen, C., & Dong, C. (2022). Comparative trace metal assessment in phytoplankton using size and density fractionation. *Marine Pollution Bulletin*, *177*(February), 113475. https://doi.org/10.1016/j.marpolbul.2022.113475

Park, J. H., & Jung, D. Il. (2011). Removal of total phosphorus (TP) from municipal

wastewater using loess. *Desalination*, *269*(1–3), 104–110. https://doi.org/10.1016/j.desal.2010.10.048

Patricia, C., Astono, W., & Hendrawan, D. I. (2018). Kandungan nitrat dan fosfat di Sungai Ciliwung. *Journal Systems (Universitas Trisakti)*, *4*, 179–185.

Pérez, J. R., Loureiro, S., Menezes, S., Palma, P., & Fernandes, R. M. (2010). Assessment of water quality in the Alqueva Reservoir (Portugal) using bioassays. *Environmental and Pollution Science*, 688–702. https://doi.org/10.1007/s11356-009-0174-9

Podduturi, R., David, S., Reinaldo, J., Hyldig, G., Niels, O., J, G., & Agerlin, M. (2023). *Characterization and finding the origin of off-flavor compounds in Nile tilapia cultured in net cages in hydroelectric reservoirs , Sao Paulo State, Brazil*. *173*(May). https://doi.org/10.1016/j.foodres.2023.113375

Puspasari, R. (2017). Logam Dalam Ekosistem Perairan. *ResearchGate*, *1*(2), 43. https://doi.org/10.15578/bawal.1.2.2006.43-47

Rahadi, B., Suharto, B., & Yuke Monica, F. (2013). Identifications Capacity Pollutant Loads and Water Quality of Lesti River before the Construction of Hotel. *Jurnal Sumberdaya Alam Dan Lingkungan*, *5*(4), 1–10.

Rahadian, H., Bandong, S., Widyotriatmo, A., & Joelianto, E. (2023). Image encoding selection based on Pearson correlation coefficient for time series anomaly detection. *Alexandria Engineering Journal*, *82*(September), 304–322. https://doi.org/10.1016/j.aej.2023.09.070

Rahim, N. A. A., Merican, F. M. M. S., Radzi, R., Omar, W. maznah W., Nor, S. A. M., Broady, P., & Convey, P. (2023). Unveiling The Diversity of Periphytic Cyanobacteria (Cyanophyceae) from Tropical Mangroves in Penang, Malaysia. *Tropical Life Science Research*.

Rahmah, N., Zulfikar, A., & Apriadi, T. (2022). Kelimpahan Fitoplankton dan Kaitannya dengan Beberapa Parameter Lingkungan Perairan di Estuari Sei Carang, Tanjungpinang. *Journal of Marine Research*, *11*(2), 189–200.

Rahman, A., Haeruddin, Ghofar, A., & Purwanti, F. (2022). Kondisi Kualitas Air Dan Struktur Komunitas Diatom (Bacillariophyceae) Di Sungai Babon. *Saintek Perikanan : Indonesian Journal of Fisheries Science and Technology*, *18*(2), 125–129. https://doi.org/10.14710/ijfst.18.2.125-129

Rahmawati, N. O., Hartoko, A., & Latifah, N. (2021). Phytoplankton Abudance Analysis Of Alang-Alang Waters. *Kelautan Nasional*, *16*, 97–108.

Randle, S., & Barnes, J. (2018). Liquid futures: Water management systems and anticipated environments. *Wiley Interdisciplinary Reviews: Water*, *5*(2), 1–8. https://doi.org/10.1002/WAT2.1274

Rasyid, H. Al, Purnama, D., & Kusuma, A. B. (2018). Pemanfaatan Fitoplankton Sebagai Bioindikator Kualitas Air Di Perairan Muara Sungai Hitam Kabupaten Bengkulu Tengah Provinsi Bengkulu. *Jurnal Enggano*, *3*(1), 39–51. https://doi.org/10.31186/jenggano.3.1.39-51

Rauf, A., Javed, M., & Jabeen, G. (2019). Uptake and Accumulation of Heavy Metals in Water and Planktonic Biomass of the River Ravi, Pakistan. *Turkish Journal of Fisheries and Aquatic Sciences*, *19*(10), 857–864. https://www.trjfas.org/abstract.php?lang=en&id=1390

Raven, J. A., & Maberly, S. C. (2009). Phytoplankton Nutrition and Related Mixotrophy. *Encyclopedia of Inland Waters*, 192–196. https://doi.org/10.1016/B978-012370626-3.00138-1

Rosada, K. K., & Sunardi. (2021). *Metode Pengambilan dan Analisis Plankton* (p. 94).

Rumoey, D. S., Umar, N. A., & Hadijah. (2022). *Pencemaran Logam Berat pada Ekosistem*

Perairan (S. Mulyani (Ed.)). Pustaka Almaida.
Saber, A., James, D. E., & Hannoun, I. A. (2020). Effects of lake water level fl uctuation due to drought and extreme winter precipitation on mixing and water quality of an alpine lake , Case Study : Lake Arrowhead , California. *Science of the Total Environment*, *714*, 136762. https://doi.org/10.1016/j.scitotenv.2020.136762
Sallam, G. A. H., & Elsayed, E. A. (2015). Estimating the impact of air temperature and relative humidity change on the water quality of Lake Manzala, Egypt. *Journal of Natural Resources and Development*, 76–87. https://doi.org/10.5027/jnrd.v5i0.11
Sanganyado, E., & Kajau, T. A. (2022). The fate of emerging pollutants in aquatic systems: An overview. In *Emerging Freshwater Pollutants: Analysis, Fate and Regulations*. Elsevier Inc. https://doi.org/10.1016/B978-0-12-822850-0.00002-8
Saturday, A., Lyimo, T. J., Machiwa, J., & Pamba, S. (2023). Spatial and temporal variations of trophic state conditions of Lake Bunyonyi , south - western Uganda. *Applied Water Science*, *13*(1), 1–11. https://doi.org/10.1007/s13201-022-01816-y
Sauro, J., & R.Lewis, J. (2016). An introduction to correlation, regression, and Anova. In *Quantifying the User Experience* (Second Edi, pp. 277–320). Elsevier Inc. https://doi.org/10.1016/B978-0-12-802308-2/00010-2
Schindler, D. W., Erie, L., & Lake, M. (2012). *The dilemma of controlling cultural eutrophication of lakes*. *August*, 4322–4333. https://doi.org/10.1098/rspb.2012.1032
Seka, A. M., Zhang, J., Ayele, G. T., Demeke, Y. G., Han, J., & Ahmed, F. (2022). Spatio-temporal analysis of water storage variation and temporal correlations in the East Africa lake basins. *Journal of Hydrology: Regional Studies*, *41*(April), 101094. https://doi.org/10.1016/j.ejrh.2022.101094
Semeniuk, D. M., Bundy, R. M., Payne, C. D., Barbeau, K. A., & Maldonado, M. T. (2015). Acquisition of organically complexed copper by marine phytoplankton and bacteria in the northeast subarctic Pacific Ocean Acquisition of organically complexed copper by marine phytoplankton and bacteria in the northeast subarctic Paci fi c Ocean. *Marine Chemistry*, *173*(March 2022), 222–233. https://doi.org/10.1016/j.marchem.2015.01.005
Shen, D., Wang, Y., Jia, J., Wang, J., Wang, F., Lu, Y., Wang, S., Li, Z., & Gao, Y. (2022). Trace metal spatial patterns and associated ecological toxic effects on phytoplankton in Qinghai–Tibet Plateau lake systems along with environmental gradients. *Journal of Hydrology*, *610*(April), 127892. https://doi.org/10.1016/j.jhydrol.2022.127892
Sherina Windi. (2019). *Analisis Konsentrasi Klorofil-A Dan Identifikasi Fitoplankton Di Danau Maninjau Sumatera Barat*.
Siagian, M., Asmika H., & Simarmata. (2015). Vertical Profile of Dissolved Oxygen in the Pinang Dalam Oxbow Lake Buluh Cina Village, Siak Hulu Sub District, Kampar District, Riau Province. *Akuatika*, *VI*(1), 87–94.
Sihombing, R. F., Aryawati, R., & Hartoni. (2013). Kandungan klorofil-a fitoplankton di sekitar perairan Desa Sungsang Kabupaten Banyuasin Provinsi Sumatera Selatan. *Maspari Journal*, *5*(1), 34–39.
Sladen, C. (2012). Lake systems. In *Regional Geology and Tectonics: Principles of Geologic Analysis*. Elsevier B.V. https://doi.org/10.1016/B978-0-444-53042-4.00015-7
Smetacek. (2001). in the Beginning: the First Conceptual Model. *Mar Ecol Prog Ser National Research Council*, *210*, 223–253.
Soejarwo, P. A., Koeshendrajana, S., Apriliani, T., Yuliaty, C., Deswati, R. H., Sari, Y. D., Sunoko, R., & Sirait, J. (2022). Management of Floating Net Cages (KJA) Aquaculture in an Effort To Save Maninjau Lake. *ResearchGate*, *12*(1), 79–87.
Soeprobowati, T. R., Suedy, W., & Agung, S. (2010). Status Trofik Danau Rawapening Dan Solusi Pengelolaannya. *Sains & Matematika (JSM)*, *18*(January), 158–169.

https://doi.org/ISSN 0854-0675
Song, Y., Guo, Y., Liu, H., Zhang, G., Zhang, X., Thangaraj, S., & Sun, J. (2022). Water quality shifts the dominant phytoplankton group from diatoms to dinoflagellates in the coastal ecosystem of the Bohai Bay. *Marine Pollution Bulletin*, *183*(August), 114078. https://doi.org/10.1016/j.marpolbul.2022.114078
Stager, J. C., Hecky, R. E., Kling, H., & Paleolimnology, L. V. Á. (2009). *Diatom evidence for the timing and causes of eutrophication in Lake Victoria , East Africa*. 463–478. https://doi.org/10.1007/s10750-009-9974-7
Sulastri, Henny, C., & Nomosatryo, S. (2019). Phytoplankton diversity and trophic status of Lake Maninjau, West Sumatra, Indonesia. *Prosiding Seminar Nasional Masyarakat Biodivsersotas Indonesia*, *5*(2), 242–250. https://doi.org/10.13057/psnmbi/m050217
Sulastri, Nomosatriyo, S., & Hamdani, A. (2016). Kondisi Lingkungan Perairan dan Keanekaragaman Sumber Daya Ikan di Danau Maninjau, Sumatra Barat. *Bawal*, *8*(1), 1–12.
Sulastri, Nomosatryo, S., Henny, C., & Sulawesty, F. (2022). Functional Groups of Phytoplankton and Their Relationship with Environmental Factors in Lake Maninjau, West Sumatra, Indonesia. *IOP Conference Series: Earth and Environmental Science*, *1062*(1). https://doi.org/10.1088/1755-1315/1062/1/012012
Sulawesty, F., Yustiawati, Y., & Aisyah, S. (2020). Komunitas Fitoplankton di Daerah Litoral Danau Maninjau dan Sungai Ranggeh, Kabupaten Agam Kaitannya dengan Kandungan Nutrien. *Oseanologi Dan Limnologi Di Indonesia*, *5*(1), 47. https://doi.org/10.14203/oldi.2020.v5i1.289
Sun, X., Rosado, D., Hörmann, G., Zhang, Z., Loose, L., Nambi, I., & Fohrer, N. (2023). Assessment of seasonal and spatial water quality variation in a cascading lake system in Chennai , India. *Science of the Total Environment*, *858*(August 2022). https://doi.org/10.1016/j.scitotenv.2022.159924
Sunaryani, A. (2023). Determination of Water Quality Status and Trophic Classification of Lake Maninjau. *Jurnal Teknologi Lingkungan*, *24*(1), 21–27.
Syandri, H. (2016). Kondisi Kualitas Air Pada Daerah Pemeliharaan Ikan Keramba Jaring Apung Di Danau Maninjau. *Prosiding Seminar Nasional Tahunan Ke-V Hasil-Hasil Penelitian Perikanan Dan Kelautan B3*, *5*, 301–310.
Syandri, H. (2020). *Danau Maninjau Antara Keramba Jaring Apung Dan Pariwisata*. LPPM Universitas Bung Hatta.
Syawal, M. S., Wardiatno, Y., & Hariyadi, S. (2016a). Pengaruh Aktivitas Antropogenik Terhadap Kualitas Air , Sedimen dan Moluska. *Biologi Tropis*, *16 (1)*(January 2016), 1–14. https://doi.org/10.29303/jbt.v16i1.210
Syawal, M. S., Wardiatno, Y., & Hariyadi, S. (2016b). Pengaruh Aktivitas Antropogenik Terhadap Kualitas Air , Sedimen dan Moluska di Danau Maninjau Sumatera Barat. *Jurnal Biologi Tropis*, *16*(1), 1–14.
Szymańska-Walkiewicz, M., Glińska-Lewczuk, K., Burandt, P., & Obolewski, K. (2022). Phytoplankton Sensitivity to Heavy Metals in Baltic Coastal Lakes. *International Journal of Environmental Research and Public Health*, *19*(7). https://doi.org/10.3390/ijerph19074131
Tang, C., Yi, Y., Yang, Z., Zhang, S., & Liu, H. (2018). Effects of ecological fl ow release patterns on water quality and ecological restoration of a large shallow lake. *Journal of Cleaner Production*, *174*, 577–590. https://doi.org/10.1016/j.jclepro.2017.10.338
Tang, C., Yi, Y., Yang, Z., Zhou, Y., Zerizghi, T., Wang, X., Cui, X., & Duan, P. (2019a). Planktonic indicators of trophic states for a shallow lake (Baiyangdian Lake ,. *Limnologica*, *78*(June), 125712. https://doi.org/10.1016/j.limno.2019.125712

Tang, C., Yi, Y., Yang, Z., Zhou, Y., Zerizghi, T., Wang, X., Cui, X., & Duan, P. (2019b). Planktonic indicators of trophic states for a shallow lake (Baiyangdian Lake, China). *Limnologica*, *78*(December 2018), 125712. https://doi.org/10.1016/j.limno.2019.125712

Tao, Y., Yuan, Z., Xiaona, H., & Wei, M. (2012). Distribution and bioaccumulation of heavy metals in aquatic organisms of different trophic levels and potential health risk assessment from. *Ecotoxicology and Environmental Safety*, *81*, 55–64. https://doi.org/10.1016/j.ecoenv.2012.04.014

Test, A., & For, C. (2018). *Collaborative laboratory studies: part 2—using anova*. *5*, 197–199. https://doi.org/10.1016/B978-0-12-805309-6.00035-0

Uddin, G., Nash, S., Rahman, A., & Olbert, A. I. (2022). A comprehensive method for improvement of water quality index (WQI) models for coastal water quality assessment. *Water Research*, *219*(May), 118532. https://doi.org/10.1016/j.watres.2022.118532

Ulfa, M. (2017). Jenis dan Kelimpahan Fitoplankton di Danau Maninjau Kecamatan Tanjung Raya Kabupaten Agam Provinsi Sumatera Barat. In *Universitas Riau*.

Underwood, G. J. C., & Kromkamp, J. (1999). Primary Production by Phytoplankton and Microphytobenthos in Estuaries. *Advances in Ecological Research*, *29*(C), 93–153. https://doi.org/10.1016/S0065-2504(08)60192-0

Wahyudi, D., & Djamaris, A. R. A. (2018). *Metode Statistik Untuk Ilmu dan Teknologi Pangan*. Jakarta : Penerbitan Universitas Bakrie.

Wang, M., Tian, Q., Li, X., Liang, J., He, Y., & Hou, J. (2020). TEX86 as a potential proxy of lake water pH in the Tibetan Plateau. *Palaeogeography, Palaeoclimatology, Palaeoecology*, *538*, 109381. https://doi.org/10.1016/j.palaeo.2019.109381

Wang, X., Hao, C., Zhang, F., Feng, C., & Yang, Y. (2011). Inhibition of the growth of two blue-green algae species (Microsystis aruginosa and Anabaena spiroides) by acidification treatments using carbon dioxide. *Bioresource Technology*, *102*(10), 5742–5748. https://doi.org/10.1016/j.biortech.2011.03.015

Widiana, R. (2013). Komposisi Fitoplankton Yang Terdapat Di Perairan Batang Palangki Kabupaten Sijunjung. *Jurnal Pelangi*, *5*(1). https://doi.org/10.22202/jp.2012.v5i1.4

Widiastuti, E. L., Afifa, A. D., Tugiyono, T., Umar, S., Mumtazah, D. F., & Hadi, S. (2023). Plankton diversity and its heavy metal content in Ratai Bay of Pesawaran district, Lampung, Indonesia. *Journal of Water and Health*, *21*(6), 663–675. https://doi.org/10.2166/wh.2023.209

Wijaya, T. S., & Hariyati, R. (2011). *Struktur Komunitas Fitoplankton sebagai Bio Indikator Kualitas Perairan Danau Rawapening Kabupaten Semarang Jawa Tengah*. https://api.semanticscholar.org/CorpusID:86459903

Wiyarsih, B., Endrawati, H., & Sedjati, S. (2019). Komposisi Dan Kelimpahan Fitoplankton Di Laguna Segara Anakan, Cilacap. *Buletin Oseanografi Marina*, *8*(1), 1. https://doi.org/10.14710/buloma.v8i1.21974

Wołowski, K., Lenarczyk, J., Augustynowicz, J., & Sitek, E. (2023). Exploring a unique water ecosystem under long-term exposure to hexavalent chromium – An in situ study of natural diatom (Bacillariophyceae) communities. *Chemosphere*, *340*(May), 1–8. https://doi.org/10.1016/j.chemosphere.2023.139941

Xu, H., Xu, G., Wen, X., Hu, X., & Wang, Y. (2021). Lockdown effects on total suspended solids concentrations in the Lower Min River (China) during COVID-19 using time-series remote sensing images. *International Journal of Applied Earth Observation and Geoinformation*, *98*, 102301. https://doi.org/10.1016/j.jag.2021.102301

Xu, J., Chen, Y., Zheng, L., Liu, B., Liu, J., & Wang, X. (2018). Assessment of heavy metal pollution in the sediment of the main tributaries of Dongting Lake, China. *Water*

(Switzerland), *10*(8), 1–16. https://doi.org/10.3390/w10081060

Yang, F., He, B., Zhou, Y., Li, W., Zhang, X., & Feng, Q. (2023). Trophic status observations for Honghu Lake in China from 2000 to 2021 using Landsat Satellites. *Ecological Indicators*, *146*(January), 109898. https://doi.org/10.1016/j.ecolind.2023.109898

Yang, R., Fan, X., Zhao, L., & Yang, K. (2023). Identification of major environmental factors driving phytoplankton community succession before and after the regime shift of Erhai Lake, China. *Ecological Indicators*, *146*(January), 109875. https://doi.org/10.1016/j.ecolind.2023.109875

Yang, X. E., Wu, X., Hao, H. L., & He, Z. L. (2008). Mechanisms and assessment of water eutrophication. *Journal of Zhejiang University: Science B*, *9*(3), 197–209. https://doi.org/10.1631/jzus.B0710626

Yanti, E. V. (2013). Dynamics Seasonal of Water Quality at The Watershed Kahayan River, Central Kalimantan. *Ziraa'ah*, *42*, 1070118. http://www.nber.org/papers/w16019

Ying, L. W., Aris, A. Z., & Ismail, T. H. T. (2013). Spatial Geochemical Distribution and Sources of Heavy Metals in the Sediment Spatial Geochemical Distribution and Sources of Heavy Metals in the Sediment of Langat River , Western Peninsular Malaysia. *Environmental Forensics*, *14:2*(April), 133–145. https://doi.org/10.1080/15275922.2013.781078

Yu, H., Shi, X., Wang, S., Zhao, S., Sun, B., & Liu, Y. (2023). Trophic status of a shallow lake in Inner Mongolia : long-term , seasonal , and spatial variation. *Ecological Indicators*, *156*(October), 111167. https://doi.org/10.1016/j.ecolind.2023.111167

Zhang, C., McIntosh, K. D., Sienkiewicz, N., Stelzer, E. A., Graham, J. L., & Lu, J. (2023). Using cyanobacteria and other phytoplankton to assess trophic conditions: A qPCR-based, multi-year study in twelve large rivers across the United States. *Water Research*, *235*(October 2022), 119679. https://doi.org/10.1016/j.watres.2023.119679

Zheng, S., Wang, R., Kainz, M. J., Liu, C., Li, P., Li, Z., Yan, H., & Yin, D. (2022). How phytoplankton biomass controls metal (loid) bioaccumulation in size-fractionated plankton in anthropogenic-impacted subtropical lakes : A comprehensive study in the Yangtze River Delta , China. *Water Research*, *224*(June). https://doi.org/https://doi.org/10.1016/j.watres.2022.119075

Zhou, Y., Wang, L., Zhou, Y., & Mao, X. (2019). Eutrophication control strategies for highly anthropogenic influenced coastal waters. *Science of the Total Environment*, 135760. https://doi.org/10.1016/j.scitotenv.2019.135760