

DAFTAR PUSTAKA

- Afifah, N., Afifah, N., Liyantono, L., & Saptomo, S. (2025). Correlation Analysis Between Water Discharge and Suspended Load During The Rainy Season in The Downstream Ciliwung River, Jakarta Analisis Korelasi Antara Debit Aliran dan Sedimen Melayang (Suspended Load) DAS Ciliwung di Wilayah Jakarta. *Jurnal Keteknikan Pertanian*, 13, 418–431. <https://doi.org/10.19028/jtep.013.3.418-431>
- Ahram, M. H. (2024). Analisis Kualitas Air Menggunakan Metode Indeks Pencemaran di Danau Balang Tonjong Kota Makassar. *Jurnal Linears*, 7(2), 89–99. <https://doi.org/10.26618/j-linears.v7i2.14234>
- Brum, M., Fan, F. M., Salla, M. R., & von Sperling, M. (2022). Analysis of a probabilistic approach for modelling and assessment of the water quality of rivers. *Journal of Hydroinformatics*, 24(4), 783–797. <https://doi.org/10.2166/hydro.2022.157>
- Bui, T.-K. L., Do-Hong, L. C., Dao, T.-S., & Hoang, T. C. (2016). Copper toxicity and the influence of water quality of Dongnai River and Mekong River waters on copper bioavailability and toxicity to three tropical species. *Chemosphere*, 144, 872–878. <https://doi.org/10.1016/j.chemosphere.2015.09.058>
- Chavarria, K., Batista, J., & Saltonstall, K. (2024). Widespread occurrence of fecal indicator bacteria in oligotrophic tropical streams. Are common culture-based coliform tests appropriate? *PeerJ*, 12(9), 1–21. <https://doi.org/10.7717/peerj.18007>
- Darji, J., & Lodha, P. (2025). QUAL2Kw – A Water Quality Modelling Tool for Rivers and Streams : A Review. *International Journal on Science and Technology*, 16(3), 1–17. <https://www.ijst.org/papers/2025/3/7594.pdf>
- Deliana Mangisu, Davy I R Jansen, & Fredrick M Sallu. (2022). Dampak Variasi Kemiringan dan Debit Terhadap Kecepatan dan Sedimen dengan Pasir Kasar Sebagai Bahan Dasar Saluran (Studi Eksperimen). *Jurnal Sains Dan Teknologi*, 1(2), 101–105. <https://doi.org/10.58169/saintek.v1i2.83>
- Dou, B., Hosseini, Y., Lee, C., Rosenberg, C., & Wu, N. (2018). The Relationship Between Stream Discharge and Dissolved Oxygen Levels at Canyon Creek, and Implications Towards Salmon Performance. *The Expedition*, 8(2003), 1–20.
- Effendi, H., Romanto, & Wardiatno, Y. (2015). Water Quality Status of Ciambulawung River, Banten Province, Based on Pollution Index and NSF-WQI. *Procedia Environmental Sciences*, 24, 228–237. <https://doi.org/10.1016/j.proenv.2015.03.030>

- Fadhil, R. A., Yuliani, E., & Prayogo, T. B. (2025). Analisis Kualitas Air Menggunakan Metode Indeks Pencemaran ., *Jurnal Teknologi Dan Rekayasa Sumber Daya Air (JTRESDA)*, 05(01), 37–48. <https://doi.org/10.21776/ub.jtresda.2025.005.01.005>
- Fu, L., Ma, X., Peng, S., Gong, L., Zhang, R., & Huang, B. (2024). Exploring the scale effect of nonpoint source pollution risk on water quality in Lake Basins of Central Yunnan Plateau using the Minimum Cumulative Resistance model. *PeerJ*, 12(10). <https://doi.org/10.7717/peerj.18247>
- Ghozali, A., Yoshua, Eviane, D., & Lestari, A. (2024). ANALISIS DAYA DUKUNG SUNGAI MENGGUNAKAN QUAL2Kw: STUDI KASUS SEGMENT SUNGAI GAJAHWONG, YOGYAKARTA. *Jurnal Rekayasa Lingkungan*, 24, 27–38.
- Harisagustinawati, H., Aswandi, A., & Sunarti, S. (2020). Karakter DAS Kambang Berdasarkan Analisis Morfometri dan Aspek Biofisik. *Jurnal Daur Lingkungan*, 3(2), 38. <https://doi.org/10.33087/daurling.v3i2.51>
- Iqbal, M. M., Shoib, M., Farid, H. U., & Lee, J. L. (2018). Assessment of water quality profile using numerical modeling approach in major climate classes of asia. *International Journal of Environmental Research and Public Health*, 15(10). <https://doi.org/10.3390/ijerph15102258>
- Kamal, N., Muhammad, N. S., & Abdullah, J. (2020). Scenario-based pollution discharge simulations and mapping using integrated QUAL2K-GIS. *Environmental Pollution*, 259, 113909. <https://doi.org/10.1016/j.envpol.2020.113909>
- Karimov, B. K., Shoergashova, S. S., Talskikh, V. N., & Salokhiddinov, A. T. (2020). Relationship between the concentrations of nitrogen compounds and the water discharge in the Chirchiq River, Uzbekistan. *IOP Conference Series: Earth and Environmental Science*, 614(1), 1–13. <https://doi.org/10.1088/1755-1315/614/1/012154>
- Li, H., Zhang, J., Ge, X., Chen, S., & Ma, Z. (2023). The Effects of Short-Term Exposure to pH Reduction on the Behavioral and Physiological Parameters of Juvenile Black Rockfish (*Sebastes schlegelii*). *Biology*, 12(6). <https://doi.org/10.3390/biology12060876>
- Lusiana, N., Sulianto, A. A., Devianto, L. A., & Sabina, S. (2020). Penentuan Indeks Pencemaran Air dan Daya Tampung Beban Pencemaran Menggunakan Software QUAL2Kw (Studi Kasus Sungai Brantas Kota Malang). *Jurnal Wilayah Dan Lingkungan*, 8(2), 161–176. <https://doi.org/10.14710/jwl.8.2.161-176>
- Marselina, M., Wibowo, F., & Mushfiroh, A. (2022). Water quality index assessment methods for surface water: A case study of the Citarum River in Indonesia. *Heliyon*, 8(7). <https://doi.org/10.1016/j.heliyon.2022.e09848>

- Md. Serajuddin, M. S., Chowdhury, M. A. I., Haque, M. M., & Khan, T. A. (2024). The Concentration of Organic & Ammonium Pollution and their Relationship in River Water: A Case Study. *Scholars Journal of Engineering and Technology*, 12(02), 82–88. <https://doi.org/10.36347/sjet.2024.v12i02.006>
- Mebane, C. A. (2023). Bioavailability and Toxicity Models of Copper to Freshwater Life: The State of Regulatory Science. *Environmental Toxicology and Chemistry*, 42(12), 2529–2563. <https://doi.org/10.1002/etc.5736>
- Menteri Negara Lingkungan Hidup. (2003). Pedoman Penentuan Status Mutu Air. *Vasa*, 1–15. <http://medcontent.metapress.com/index/A65RM03P4874243N.pdf>
- Mohd Khairul Amri Kamarudin. (2020). Seasonal Variation on Dissolved Oxygen, Biochemical Oxygen Demand and Chemical Oxygen Demand in Terengganu River Basin, Malaysia. *Journal of Environmental Science and Management*, 7(December), 1–7.
- Morais, C. C. (2018). *Nitrification in wastewater treatment at its biological oxygen limit*. November.
- Mustafa, A. S., Sulaiman, S. O., & Shahooth, S. H. (2016). Application of QUAL2K for Water Quality Modeling and Management in the lower reach of the Diyala river. *Iraqi Journal of Civil Engineering*, 11(2), 66–74. <http://www.ecy.wa.gov/>
- Napitupulu, R. T., & Putra, M. H. S. (2024). Pengaruh Bod, Cod Dan Do Terhadap Lingkungan Dalam Penentuan Kualitas Air Bersih Di Sungai Pesanggrahan. *CIVeng: Jurnal Teknik Sipil Dan Lingkungan*, 5(2), 79. <https://doi.org/10.30595/civeng.v5i2.17878>
- Nathania, N. A., Sayekti, R. W., & Sholichin, M. (2021). Studi Sebaran Karakteristik Kualitas Air dengan Parameter BOD, COD, DO, NH3-N, TSS, dan pH di Waduk Sutami. *Jurnal Teknologi Dan Rekayasa Sumber Daya Air*, 1(2), 890–903. <https://doi.org/10.21776/ub.jtresda.2021.001.02.45>
- Ngatia, M., Kithiia, S. M., & Voda, M. (2023). Effects of Anthropogenic Activities on Water Quality within Ngong River Sub-Catchment, Nairobi, Kenya. *Water (Switzerland)*, 15(4). <https://doi.org/10.3390/w15040660>
- Noor, S. S. M., & Saad, N. A. (2024). A Review on QUAL2K Water Quality Model: Comparative Analysis with Other Models, Recent Advances and Future Directions. *E3S Web of Conferences*, 599, 1–9. <https://doi.org/10.1051/e3sconf/202459902008>
- Nufutomo, T. K., Mufti, A. A., Fitriani, K., & Fadillah, M. (2022). Correlation between Rainfall , Flow Rate and Phosphate towards Coliform Bacteria in The Way Sekampung River , Lampung. *The Fourth International Conference on Sustainable Infrastructure and Built Environment*, 1(1), 550–557.

- Nufutomo, T. K., Muntalif, B. S., Ariesyady, H. D., & Sudradjat, A. (2023). Water Quality Analysis Using QUAL2Kw Model during the Rainy Season and Dry Season in Upper Citarum Watershed, West Java, Indonesia. *IOP Conference Series: Earth and Environmental Science*, 1239(1). <https://doi.org/10.1088/1755-1315/1239/1/012008>
- Nugraha, W. D., Hadi, S. P., Sasongko, S. B., Anisa, A. N., & Budihardjo, M. A. (2022). The Use of Qual2KW to Analyze the Concentration of pH, Nitrate, Phosphate, and Fecal Coliform on Water Quality: A Case Study of the Klampok River, Semarang Regency. *Jurnal Presipitasi : Media Komunikasi Dan Pengembangan Teknik Lingkungan*, 19(2), 208–221. <https://doi.org/10.14710/presipitasi.v19i2.208-221>
- Oktaviani, E., Marpaung, S. S. M., Kurniawan, H., & Syah, F. (2025). Meta-Analysis: Seasonal Variations in pH Concentration and Their Impact on River Water Quality. *Jurnal Biologi Tropis*, 25(4), 4758–4764. <https://doi.org/10.29303/jbt.v25i4.10216>
- Omer, N. H. (2019). Water Quality Parameters - Science, Assessments and Policy. *IntechOpen*, DOI: <http://dx.doi.org/10.5772/intechopen.89657>, 38. <http://dx.doi.org/10.1039/C7RA00172J%0Ahttps://www.intechopen.com/books/advanced-biometric-technologies/liveness-detection-in-biometrics%0Ahttp://dx.doi.org/10.1016/j.colsurfa.2011.12.014>
- Papciak, D., Domoń, A., & Zdeb, M. (2024). The Influence of the Biofiltration Method on the Efficiency of Ammonium Nitrogen Removal from Water in Combined Sorption and Nitrification Processes. *Water (Switzerland)*, 16(5). <https://doi.org/10.3390/w16050722>
- Parveen, N., & Singh, S. K. (2016). Application of Qual2e Model for River Water Quality Modelling. *International Journal of Advance Research and Innovation*, 4(2), 66–70. <https://doi.org/10.51976/ijari.421610>
- Pemerintah Republik Indonesia. (2021). Peraturan Pemerintah Nomor 22 Tahun 2021 tentang Pedoman Perlindungan dan Pengelolaan Lingkungan Hidup. *Sekretariat Negara Republik Indonesia*, 1(078487A), 1–483. <http://www.jdih.setjen.kemendagri.go.id/>
- Rahmi, R. (2021). Pemodelan Kualitas Air Sungai Berdasarkan Parameter DO Dan BOD Menggunakan Software QUAL2KW (Studi Kasus: Sungai Winongo, Provinsi DIY). *Repository Universitas Islam Indonesia*, 6–11. <https://repository.uinjkt.ac.id/dspace/handle/123456789/56977%0Ahttps://repository.uinjkt.ac.id/dspace/bitstream/123456789/56977/1/FARIS%0ASHALAHUDDIN-FST.pdf>

- Rajwa-Kuligiewicz, A., Bialik, R. J., & Rowiński, P. M. (2015). Dissolved oxygen and water temperature dynamics in lowland rivers over various timescales. *Journal of Hydrology and Hydromechanics*, 63(4), 353–363. <https://doi.org/10.1515/johh-2015-0041>
- Riset, J., Giarto, R. B., Kiptiah, M., Zega, F., & Zubran, A. (2024). *Karakteristik Kecepatan dan Debit Aliran pada Sungai Alami menggunakan Six-Tenths Method (Studi Kasus Sungai Pondok Gong Characteristics of Velocity and Discharge Flow in Natural Rivers Using the Six-Tenths Method (Case Study of Pondok Gong River Km . 33. 8(2), 173–181.*
- Salsabila, N. F., Raharjo, M., & Joko, T. (2023). Indeks Pencemaran Air Sungai dan Persebaran Penyakit yang Ditularkan Air (Waterborne Diseases): Suatu Kajian Sistematis. *Environmental Occupational Health and Safety Journal*, 4(1), 24. <https://doi.org/10.24853/eohjs.4.1.24-34>
- Sari, C. R. V. (2022). *Pemodelan kualitas air sungai pada parameter fosfat dan amonia menggunakan software qual2kw (studi kasus : sungai winongo, diy).*
- Sari, D. S. I. P., Hariyadi, S., & Effendi, H. (2022). Hubungan kualitas air dengan parameter hidrologi di Sungai Batang Arau Sumatera Barat (2013-2020). *Jurnal Pengelolaan Lingkungan Berkelanjutan (Journal of Environmental Sustainability Management)*, 5(3), 788–798. <https://doi.org/10.36813/jplb.5.3.788-798>
- Shan Wu, Hongquan Han, Benwei Hou, and K. D. (2020). Hybrid Model for Short-Term Water Demand. *Water (Switzerland)*, 1–17.
- Solár, J., & Tomaškovič, J. (2023). Physicochemical properties of mountain streams in the High and Western Tatras. *Environmental Monitoring and Assessment*, 195(12), 1–16. <https://doi.org/10.1007/s10661-023-12158-w>
- Soler, P., Faria, M., Barata, C., Garcia-Galea, E., Lorente, B., & Vinyoles, D. (2021). Improving water quality does not guarantee fish health: Effects of ammonia pollution on the behaviour of wild-caught pre-exposed fish. *PLoS ONE*, 16(8 August), 1–17. <https://doi.org/10.1371/journal.pone.0243404>
- Sucipta, C., Wibowo, H., Gunarto, D., Sipil, J. T., Tanjungpura, U., Sipil, J. T., & Tanjungpura, U. (2023). *ANALISA GEOMETRI SUNGAI TERHADAP DEBIT ALIRAN PADA SALURAN ALUVIAL*. 3–6.
- Susilowati, S., Sutrisno, J., Masykuri, M., & Maridi, M. (2018). Dynamics and factors that affects DO-BOD concentrations of Madiun River. *AIP Conference Proceedings*, 2049(June 2017). <https://doi.org/10.1063/1.5082457>
- Tilburg, C. E., Jordan, L. M., Carlson, A. E., Zeeman, S. I., & Yund, P. O. (2015). The effects of precipitation, river discharge, land use and coastal circulation on water quality in coastal Maine. *Royal Society Open Science*, 2(7). <https://doi.org/10.1098/rsos.140429>

- Vadde, K. K., Wang, J., Cao, L., Yuan, T., McCarthy, A. J., & Sekar, R. (2018). Assessment of water quality and identification of pollution risk locations in Tiaoxi River (Taihu Watershed), China. *Water (Switzerland)*, *10*(2). <https://doi.org/10.3390/w10020183>
- Verma, S., Verma, S., Ramakant, R., Pandey, V., & Verma, A. (2025). Comprehensive Assessment of Physico-Chemical and Biological Parameters in Water Quality Monitoring: A Review of Contaminants, Indicators, and Health Impacts. *International Journal of Horticulture, Agriculture and Food Science*, *9*(2), 10–19. <https://doi.org/10.22161/ijhaf.9.2.2>
- Wen, Y., Schoups, G., & Van De Giesen, N. (2017). Organic pollution of rivers: Combined threats of urbanization, livestock farming and global climate change. *Scientific Reports*, *7*(September 2016), 1–9. <https://doi.org/10.1038/srep43289>
- Xu, J., Jin, G., Mo, Y., Tang, H., & Li, L. (2020). Assessing anthropogenic impacts on chemical and biochemical oxygen demand in different spatial scales with bayesian networks. *Water (Switzerland)*, *12*(1). <https://doi.org/10.3390/w12010246>
- Xu, Z., Cao, J., Qin, X., Qiu, W., Mei, J., & Xie, J. (2021). Oxidative Stress, immune responses and tissue structure in fish exposed to ammonia nitrogen: A review. *Animals Review*, *11*, 1–19.
- Zhang, X., Wang, H., Zhou, F., Li, B., & Zhang, W. (2020). Exploring the dynamics of Cu transported from the Yangtze River to the East China Sea. *Marine Pollution Bulletin*, *156*, 111250. <https://doi.org/https://doi.org/10.1016/j.marpolbul.2020.111250>