

DAFTAR PUSTAKA

- Ahmed, D. S., Abd Alghabar, F. A., Al-Obaidi, M. A., & Mageed, G. H. (2024). Evaluation of bio-physical parameters and microbial pollution in water systems. *Water Practice & Technology*, 19(5), 2175–2185. <https://doi.org/10.2166/wpt.2024.129>
- Alegria, C. P. dos S., Suada, I. K., & Agustina, K. K. (2022). Total Bakteri Coliform pada Limbah Peternakan Babi di Kabupaten Badung Provinsi Bali. *Buletin Veteriner Udayana*, 668. <https://doi.org/10.24843/bulvet.2022.v14.i06.p09>
- Amri, M. A. (2021). Pengaruh Air Permukaan Terhadap Air Tanah Berdasarkan Data Muka Air Tanah Dangkal Daerah Danau Sunter Dan Sekitarnya. 3, 1907–0438. <http://trijurnal.lemlit.trisakti.ac.id/index.php/petro>
- Atmojo, T. Y., Bachtiar, T., Radjasa, O. K., & Sabdono, A. (2011). Eksistensi Koprostanol Dan Bakteri Coliform Pada Lingkungan Perairan Sungai, Muara, Dan Pantai Di Jepara Pada Monsun Timur. *Jurnal Ilmu Lingkungan*, 9, 11–16.
- Babuji, P., Thirumalaisamy, S., Duraisamy, K., & Periyasamy, G. (2023). Human Health Risks due to Exposure to Water Pollution: A Review. In *Water (Switzerland)* (Vol. 15, Issue 14). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/w15142532>
- Báez, L., Ávalos, C., von Lücken, C., Villalba, C., & Nogués, J. P. (2021). Designing and validating a groundwater sampling campaign in an unmonitored aquifer: Patiño aquifer case. *Environmental Earth Sciences*, 80(11). <https://doi.org/10.1007/s12665-021-09706-3>
- Bagordo, F., Brigida, S., Grassi, T., Caputo, M. C., Apollonio, F., De Carlo, L., Savino, A. F., Triggiano, F., Turturro, A. C., De Donno, A., Montagna, M. T., & De Giglio, O. (2024). Factors Influencing Microbial Contamination of Groundwater: A Systematic Review of Field-Scale Studies. In *Microorganisms* (Vol. 12, Issue 5). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/microorganisms12050913>

- Bourli, P., Eslahi, A. V., Tzoraki, O., & Karanis, P. (2023). Waterborne transmission of protozoan parasites: A review of worldwide outbreaks - an update 2017-2022. *Journal of Water and Health*, 21(10), 1421–1447. <https://doi.org/10.2166/wh.2023.094>
- BPS. (2025, February 28). Kota Jayapura Dalam Angka Jayapura Municipality In Figures 2025. 94710.25002.
- Burkholder, J. A., Libra, B., Weyer, P., Heathcote, S., Kolpin, D., Thorne, P. S., & Wichman, M. (2007). Impacts of waste from concentrated animal feeding operations on water quality. *Environmental Health Perspectives*, 115(2), 308–312. <https://doi.org/10.1289/ehp.8839>
- Chapman, D. (2021). *Water Quality Assessments*. <https://doi.org/https://doi.org/10.1201/9781003062103>
- Devi, A. S., Hotimah, K., Sakha, R., Karimullah, A., & Anshori, M. I. (2022). *Mewawancarai Kandidat: Strategi untuk Meningkatkan Efisiensi dan Efektivitas*. 2(2), 66–78. <https://doi.org/10.59603/masman.v2i2>
- FANG, Z., HUHE Tao-li, YUAN Ru-ling, WU Dan, HUANG Xin, YU Zi-xi, LEI Ting-zhou, & CHEN Yong. (2022). *Environmental Impacts Assessment of Large-scale Multi-floor Pig Farming Systems*. <https://doi.org/https://doi.org/10.19741/j.issn.1673-4831.2022.0172>
- Haga, K. (2023). Groundwater Pollution by Nitrate Nitrogen and Livestock Waste Management. *Journal of Geography (Chigaku Zasshi)*, 132(2), 107–125. <https://doi.org/10.5026/jgeography.132.107>
- Heaney, C. D., Myers, K., Wing, S., Hall, D., Baron, D., & Stewart, J. R. (2015). Source tracking swine fecal waste in surface water proximal to swine concentrated animal feeding operations. *Science of the Total Environment*, 511, 676–683. <https://doi.org/10.1016/j.scitotenv.2014.12.062>

- Horta, C., Roque, N., Batista, M., & Duarte, A. C. (2022). Multi-Risk Assessment to Evaluate the Environmental Impact of Outdoor Pig Production Areas: A Case Study. *Agronomy*, 12(8). <https://doi.org/10.3390/agronomy12081898>
- Ishtiaq, M. (2019). Book Review Creswell, J. W. (2014). *Research Design: Qualitative, Quantitative and Mixed Methods Approaches* (4th ed.). Thousand Oaks, CA: Sage. *English Language Teaching*, 12(5), 40. <https://doi.org/10.5539/elt.v12n5p40>
- Jhon Ronaldo Naa, Marsal Arung Lamba, Lazarus Ramandei, & Tommi Tommi. (2024). Implementasi Rencana Tata Ruang Wilayah Kota Jayapura terhadap Peruntukan Lahan di Holtekamp Distrik Muara Tami. *Konstruksi: Publikasi Ilmu Teknik, Perencanaan Tata Ruang Dan Teknik Sipil*, 2(4), 53–68. <https://doi.org/10.61132/konstruksi.v2i4.505>
- Joseph, G. (2023). Penerapan Sistem Perkandangan Pada Usahaternak Babi Di Wayari, Negeri Suli, Kecamatan Salahutu, Kabupaten Maluku Tengah (*Housing System in Pig Farming in Wayari, Suli Village, Salahutu Sub-District, Central Maluku Regency*) (Vol. 1, Issue 2).
- Kaihena, M., Talakua, C. M., Pagaya, J., & Talakua, S. M. (2021). Analysis of water pollution in microbiology aspect of some watersheds at Ambon City, Maluku Province. *IOP Conference Series: Earth and Environmental Science*, 805(1), 012021. <https://doi.org/10.1088/1755-1315/805/1/012021>
- Kaliyadan, F., & Kulkarni, V. (2019). Types of variables, descriptive statistics, and sample size. *Indian Dermatology Online Journal*, 10(1), 82–86. https://doi.org/10.4103/idoj.IDOJ_468_18
- Kementerian Pertanian Republik Indonesia. (2020). Peraturan Menteri Pertanian Republik Indonesia Nomor 14 Tahun 2020 tentang Pendaftaran dan Perizinan Usaha Peternakan. Jakarta: Kementerian Pertanian RI.

- Kementerian Pertanian Republik Indonesia. (2017). Peraturan Menteri Pertanian Nomor 14/Permentan/PK.110/3/2017 tentang Pedoman Budidaya Ternak. Kementerian Pertanian RI.
- Kementerian Kesehatan Republik Indonesia. (2010). Peraturan Menteri Kesehatan Republik Indonesia Nomor 492/Menkes/Per/IV/2010 tentang Persyaratan Kualitas Air Minum. Jakarta: Kementerian Kesehatan RI.
- Khan, M. F. (2020). *Escherichia coli (E. coli) as an indicator of fecal contamination in water: A review*. www.preprints.org
- Knappett, P. S. K., Mckay, L. D., Layton, A., Williams, D. E., Alam, M. J., Mailloux, B. J., Ferguson, A. S., Culligan, P. J., Serre, M. L., Emch, M., Ahmed, K. M., Sayler, G. S., & Geen, A. Van. (2012). Unsealed tubewells lead to increased fecal contamination of drinking water. *Journal of Water and Health*, 10(4), 565–578. <https://doi.org/10.2166/wh.2012.102>
- Kodaka, H., Saito, M., & Matsuoka, H. (2009). Evaluation of a New Most-Probable-Number (MPN) Dilution Plate Method for the Enumeration of Escherichia coli in Water Samples. *Biocontrol Science*, 14, 123–126.
- Laskar, N. (2024). Statistical analysis and water quality modeling towards holistic health assessment of Himalayan and peninsular rivers of India. *Environmental Challenges*, 15. <https://doi.org/10.1016/j.envc.2024.100917>
- Lenaini, I. (2021). Teknik Pengambilan Sampel Purposive Dan Snowball Sampling Info Artikel Abstrak. *Jurnal Kajian, Penelitian & Pengembangan Pendidikan Sejarah*, 6(1), 33–39. <https://doi.org/10.31764/historis.vXiY.4075>
- Li, Wang, H., Liu, Y., Lin, M., Liu, X., & Hu. (2014). Distribution and Diversity of Coliform Bacteria in Estuary of Jiahe River, China. *Int. J. Environ. Res*, 8(2), 501–508. www.SID.ir
- Li, X., Zhu, L., Zhang, S. Y., Li, J., Lin, D., & Wang, M. (2024). Characterization of microbial contamination in agricultural soil: A public health perspective.

Science of the Total Environment, 912.

<https://doi.org/10.1016/j.scitotenv.2023.169139>

Liu, A., Ruan, R., Li, T., Liu, Z., Zeng, Y., Long, D., Pu, S., & Wang, H. (2019). Research progress of in-house reduce engineering technology for piggery manure wastes and poisonous gas. *Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering*, 35(15), 200–210. <https://doi.org/10.11975/j.issn.1002-6819.2019.15.025>

Lodwyk N. Krimadi, H. dan M. Y. W. (2024). *Analisis Kesadahan Air Tanah Kelurahan Koya Tengah Distrik Muara Tami, Kota Jayapura* (Vol. 8, Issue 1). [file:///C:/Users/ACER/Downloads/Lodwyk+N.+Krimadi+\(AVOGADRO+Jurnal+Kimia\).pdf](file:///C:/Users/ACER/Downloads/Lodwyk+N.+Krimadi+(AVOGADRO+Jurnal+Kimia).pdf)

Machali, I. (2021). *Metode Penelitian Kuantitatif: Panduan Praktis Merencanakan, Melaksanakan dan Menganalisis Penelitian Kuantitatif*. Yogyakarta: UIN Sunan Kalijaga Press.

Mádl-Szónyi, J., Batelaan, O., Molson, J., Verweij, H., Jiang, X. W., Carrillo-Rivera, J. J., & Tóth, Á. (2023). Regional groundwater flow and the future of hydrogeology: evolving concepts and communication. *Hydrogeology Journal*, 31(1), 23–26. <https://doi.org/10.1007/s10040-022-02577-3>

Matulesy, Y., Widyastuti, M., & Hadisusanto, S. (2023). Analysis Of Coliform And E-Coli Pollution In Groundwater In The Environment Of Cattle Farming Communities In Jetis District, Bantul Regency, Yogyakarta. *Riwayat: Educational Journal of History and Humanities*, 6(3), 1890–1899. <https://doi.org/10.24815/jr.v6i3.34182>

Miao, Z. H., Glatz, P. C., & Ru, Y. J. (2004). Review of Production, Husbandry and Sustainability of Free-range Pig Production Systems. *Journal of Animal Sciences*, 1615–1634.

- Nugroho, C. A., Ode Yanthy, N., & Yannice M Sitorus, dan L. (2023). Perubahan Tutupan Lahan Perkebunan Di Kota Jayapura Plantation Land Cover Changes In Jayapura City. *Jurnal Arsitektur Dan Planologi: MEDIAN*, 13, 38–46.
- Nur, M. A., & Saihu, M. (2024). PENGOLAHAN DATA. In *Jurnal Ilmiah Sain dan Teknologi* (Vol. 2, Issue 11).
- Otabbong, E., Arkhipchenko, I., Orlova, O., Barbolina, I., & Shubaeva, M. (2007). Impact of piggery slurry lagoon on the environment: A study of groundwater and river Igolinka at the Vostochnii Pig Farm, St. Petersburg, Russia. *Acta Agriculturae Scandinavica Section B: Soil and Plant Science*, 57(1), 74–81. <https://doi.org/10.1080/09064710600933228>
- Pamungkas, A., Wiyanti, S., & Widya Agustin, R. (2013). Hubungan antara Religiusitas dan Dukungan Sosial dengan Kecemasan Menghadapi Tutup Usia pada Lanjut Usia Kelurahan Jebres Surakarta Correlation between *Religiosity and social Support with Death Anxiety of Elderly in Jebres Village*.
- Pham-Duc, P., Nguyen-Viet, H., Luu-Quoc, T., Cook, M. A., Trinh-Thi-Minh, P., Payne, D., Dao-Thu, T., Grace, D., & Dang-Xuan, S. (2020). Understanding Antibiotic Residues and Pathogens Flow in Wastewater from Smallholder Pig Farms to Agriculture Field in Ha Nam Province, Vietnam. *Environmental Health Insights*, 14. <https://doi.org/10.1177/1178630220943206>
- Prastistho, B., Pratiknyo, P., Rodhi, A., Prasetyadi, C., Massora, M. R., & Kurnia Munandar, Y. (2018). Hubungan Struktur Geologi Dan Sistem Air Tanah (2nd ed.). LPPM UPN “Yogyakarta Press.”
- Ramos, M. C., Quinton, J. N., & Tyrrel, S. F. (2006). Effects of cattle manure on erosion rates and runoff water pollution by faecal coliforms. *Journal of Environmental Management*, 78(1), 97–101. <https://doi.org/10.1016/j.jenvman.2005.04.010>
- Ratajczak, M., Laroche, E., Berthe, T., Clermont, O., Pawlak, B., Denamur, E., & Petit, F. (2010). *Influence of hydrological conditions on the Escherichia coli*

population structure in the water of a creek on a rural watershed.

<http://www.biomedcentral.com/1471-2180/10/222>

Riyanti, R., Hilda Putri, D., & Yuniarti, E. (2021). Deteksi Bakteri E.Coli dan Coliform dengan Metode CFU pada Uji Kualitas Air Bersih. *Prosiding SEMNAS BIO*, 925–934.

<https://doi.org/https://doi.org/10.24036/prosemnasbio/vol11/222>

Schroer, H. W., Markland, K., Ling, F., & Just, C. L. (2025). Hydraulic Connectivity and Hydrochemistry Influence Microbial Community Structure in Agriculturally Affected Alluvial Aquifers in the Midwestern United States. *Environmental Science and Technology*, 59(24), 12279–12291.

<https://doi.org/10.1021/acs.est.5c03155>

Shayo, G. M., Elimbinzi, E., Shao, G. N., & Fabian, C. (2023). Severity of waterborne diseases in developing countries and the effectiveness of ceramic filters for improving water quality. *Bulletin of the National Research Centre*, 47(1). <https://doi.org/10.1186/s42269-023-01088-9>

Suwito, W., Winarti, E., Ayu Anggreni Tisnawati, N., & Supriadi. (2014). Pencemaran Bakteri dalam Air Sumur di Sekitar Peternakan Sapi Potong di Yogyakarta (Contamination of Bacteria in Well Water Around Beef Cattle Farm in Yogyakarta). *ACTA VETERINARIA INDONESIA*, 2(2), 43–48.

<http://www.journal.ipb.ac.id/indeks.php/actavetindones>

Wijaya, A. F. (2024). *Total Plate Count, Most Probable Number Index, And Coliform Bacteria Of Fresh Cow Milk In Jember Traditional Market.*

<https://jurnal.stikesbanyuwangi.ac.id/index.php/IJ-CALORY>

Wu, J., Cao, Y., Islam, M. S., & Emch, M. (2025). Application of Machine Learning to Identify Influential Factors for Fecal Contamination of Shallow Groundwater. *Water (Switzerland)*, 17(2). <https://doi.org/10.3390/w17020160>

- Wulandari, L., Veronica, N., Karet J, & Thesia Elias Hence. (2022). Penegakan Hukum Terhadap Peternak Babi Yang Mencemari Lingkungan Di Kota Jayapura. *Jurnal Gema Keadilan*, 9.
- Wulandari, T., & El Sherra, B. (2024). *Analisis Kualitas Air Berdasarkan Tingkat Pencemaran Bakteri Coliform pada Air Sungai Batang Agam Kota Payakumbuh*.
- Yue, D., Sarkar, A., & Guang, C. (2022). Impacts of Incentive and Disincentive Mechanisms for Ensuring Environmentally Friendly Livestock Waste Management. *Animals*, 12(16). <https://doi.org/10.3390/ani12162121>
- Zarić, G., Cocoli, S., Šarčević, Vještica, S., Prodanović, R., Puvača, N., & Carić, M. (2023). Escherichia coli as Microbiological Quality Water Indicator: A High Importance for Human and Animal Health. *Journal of the Hellenic Veterinary Medical Society*, 74(3), 6117–6124. <https://doi.org/10.12681/jhvms.30878>
- Zhang, D., Wang, X., & Zhou, Z. (2017). Impacts of small-scale industrialized swine farming on local soil, water and crop qualities in a hilly red soil region of subtropical China. *International Journal of Environmental Research and Public Health*, 14(12). <https://doi.org/10.3390/ijerph14121524>