

DAFTAR PUSTAKA

- Adebisi, O. O., Ifeyinwa, S. O., Akinsolu, F. T., & Olayemi, A. B. (2016). Evaluation of *Escherichia coli* as indicator of point-of-use chlorination efficiency of drinking water. *Journal of Applied Sciences and Environmental Management*, 20(4), 955-962.
- Ahmed, A. S., Alsultan, M., Hameed, R. T., Assim, Y. F., & Swiegers, G. F. (2022). High surface area activated charcoal for water purification. *Journal of Composites Science*, 6(10), 311.
- Akhila, B., & Bhavana, N. (2025). Atomic Absorption Spectroscopy. *International Journal of Scientific Development and Research*, 10(10), b84-b90.
- Anaee, R. A., Ali, A. H., & Hassan, A. R. (2017). DEPOSITION OF NICRMO NANOWIRES USING ANODIC ALUMINUM OXIDE TEMPLATE. In *International Journal of Advances in Science Engineering and Technology* (Vol. 5, Issue 2).
- Aulia, D., Yasnani, & Jumakil. (2022). Identifikasi Bakteri *Escherichia coli* pada Depot Air Minum Isi Ulang di Kecamatan Abeli Kota Kendari. *Jurnal Kesehatan Lingkungan Univ. Halu Oleo (JKL-UHO)*, 3(2).
- Azwar, A., Safrida, S., Yarmaliza, Y., Reynaldi, F., & Husna, A. (2020). *Escherichia coli* content in refill drinking water (AMIU) in samatiga district, west aceh regency. *J-Kesmas: Jurnal Fakultas Kesehatan Masyarakat (The Indonesian Journal of Public Health)*, 7(2), 68-73.
- Basavaraju, M., & Gunashree, B. S. (2022). *Escherichia coli*: an overview of main characteristics. *Escherichia coli-old and new insights*, 1-21.
- Bernardi, J. (2021). Energy-dispersive X-ray spectroscopy. In *Imaging Modalities for Biological and Preclinical Research: A Compendium, Volume 1: Part I: Ex vivo biological imaging* (p. 1.9.e-1 1.9.e-9). Institute of Physics Publishing. <https://doi.org/10.1088/978-0-7503-3059-6ch41>
- Cardinale, A. M., Alberti, S., Reverberi, A. P., Catauro, M., & Fortunato, M. (2023). Antibacterial and Photocatalytic Activities of LDH-Based Sorbents of Different Compositions. *Microorganisms*, 11(4), 1045. <https://doi.org/10.3390/microorganisms11041045>
- Emerson, R. W. (2023). *Mann-Whitney U test and t -test*. 117(1), 99–100. <https://doi.org/10.1177/0145482X221150592>
- Fertiasari, R., Lasmono, K. N., Kristiandi, K., & Yunianto, A. E. (2024). Analisis Total Coliform dan Fecal *Escherichia Coli* pada Sampel Air Galon di PT. XYZ. *Media Ilmiah Kesehatan Indonesia*, 2(2), 44-49.
- Fithria, F., Yasnani, Y., & Alhajar, H. N. (2022). Hubungan Higiene Sanitasi Dengan Keberadaan *E. coli* pada Minuman Olahan di Kendari Beach. *Jurnal Ilmu Kesehatan Masyarakat*, 18(3), 192-199.
- Fukugaichi, S., Tomosugi, Y., & Aono, H. (2022). Facile synthesis of hydrophilic layered double hydroxide film on aluminum plate. *Inorganic Chemistry*

- Hariani, B. D., Al Idrus, A., & Khairuddin, K. (2021). The assessment of the quality of water from regional drinking water company Giri Menang as a source of community drinking water in the City of Mataram. *Jurnal Biologi Tropis*, 21(1), 120-130.
- Hidayat MS, M. T., Karimuna, S. R., & Nurmamadewi. (2021). Identifikasi Bakteri *Escherichia coli* dan Gambaran Higiene Sanitasi Depot Air Minum Isi Ulang (DAMIU) di Wilayah Kerja Puskesmas Puuwatu Kota Kendari Tahun 2021. *Jurnal Kesehatan Lingkungan Univ. Halu Oleo (JKL-UHO)*, 2(3).
- Huang, Y., Su, W., Wang, R., & Zhao, T. (2019). Removal of typical industrial gaseous pollutants: From carbon, zeolite, and metal-organic frameworks to molecularly imprinted adsorbents. *Aerosol and Air Quality Research*, 19(9), 2130-2150.
- Ihsan, T., Afrianita, R., & Ilfan, F. (2025). Point-of-Use technology for clean water treatment in disaster areas: Effectiveness of LDH plate in eliminating pathogenic bacteria. In *E3S Web of Conferences* (Vol. 604, p. 05001). EDP Sciences.
- Ihsan, T., Johan, E., Fukugaichi, S., & Matsue, N. (2023). Enhancing rural drinking water safety using an Mg–Al-type layered double hydroxide Foil as a new point-of-use disinfection tool. *Journal of Water, Sanitation and Hygiene for Development*, 13(11), 921-930.
- Johan, E., Ihsan, T., Fukugaichi, S., & Matsue, N. (2023). Aluminum Foil immersed in alkalized seawater removes *Escherichia coli* from household drinking water. *Journal of Water, Sanitation and Hygiene for Development*, 13(9), 681–685. <https://doi.org/10.2166/washdev.2023.057>
- Kameliya, J., Verma, A., Dutta, P., Arora, C., Vyas, S., & Varma, R. S. (2023). Layered double hydroxide materials: A review on their preparation, characterization, and applications. *Inorganics*, 11(3), 121.
- Khan, F. M. (2020). *Escherichia coli (E. coli) as an Indicator of Fecal Contamination in Water: A Review*.
- Kristanti, R.A., Hadibarata, T., Syafrudin, M. dkk. Microbiological Contaminants in Drinking Water: Current Status and Challenges. *Water Air Soil Pollut* 233, 299 (2022). <https://doi.org/10.1007/s11270-022-05698-3>
- Lee, D., Gibson, J. M., Brown, J., Habtewold, J., & Murphy, H. M. (2023). Burden of disease from contaminated drinking water in countries with high access to safely managed water: A systematic review. *Water Research*, 242, 120244. <https://doi.org/10.1016/j.watres.2023.120244>
- Lipińska, M. (2017). *Nitrile Elastomer/LDH Composites with Varying Mg/Al Ratio, Curing, Nanoparticles Dispersion and Mechanical Properties*. IntechOpen. <https://doi.org/10.5772/INTECHOPEN.68384>

- Machado, P. (2024). *Glow up your EM data with elemental makeup colour palettes*. Oxford Instruments. <https://www.oxinst.com/blogs/glow-up-your-em-data-with-elemental-makeup-colour-palettes>
- Magdalena, R., & Krisanti, M. A. (2019). *Analisis Penyebab dan Solusi Rekonsiliasi Finished Goods Menggunakan Hipotesis Statistik dengan Metode Pengujian Independent Sampel T-Test di PT.Merck, Tbk*. 16(April), 35–48.
- McLarnan, S. M. (2017). *Escherichia coli as a water quality indicator organism: a case for responsive, science-based policy*.
- Menteri Kesehatan Republik Indonesia. (2023). *Peraturan Menteri Kesehatan Republik Indonesia Nomor 2/MENKES/PER/IV/2023 tentang Persyaratan Kualitas Air Minum*.
- Nowicki, S., Delaurent, Z. R., de Villiers, E. P., Githinji, G., & Charles, K. J. (2021). The utility of *Escherichia coli* as a contamination indicator for rural drinking water: Evidence from whole genome sequencing. *PLoS One*, 16(1), e0245910.
- Osman, A. I., El-Monaem, E. M. A., Elgarahy, A. M., Aniagor, C. O., Hosny, M., Farghali, M., ... & Eltaweil, A. S. (2023). Methods to prepare biosorbents and magnetic sorbents for water treatment: a review. *Environmental Chemistry Letters*, 21(4), 2337-2398.
- Putra, A. Y., & Mairizki, F. (2020). Groundwater Quality Assessment for Drinking Purpose Based on Physicochemical Analysis in Teluk Nilap Area, Rokan Hilir, Riau, Indonesia. *Journal of Geoscience, Engineering, Environment, and Technology*, 5(3), 151-154.
- Rahayu., dkk. (2018). *Escherichia coli*. IPB Press.
- Rohimah, F., Wulandari, E., & Asnawati, A. (2022). Overview of *Escherichia coli* Contamination in Refill Drinking Water Depot in Pasar Minggu District. *Journal of Public Health Research*, 11(3), 366736127.
- Sajid, M., Jillani, S. M. S., Baig, N., & Alhooshani, K. (2022). Layered double hydroxide-modified membranes for water treatment: Recent advances and prospects. *Chemosphere*, 287, 132140.
- Sari, A. P., Hasanah, S., & Nursalman, M. (2024). *Uji Normalitas dan Homogenitas dalam Analisis Statistik*. 8(2012), 51329–51337.
- Selvi, E. K., Şahin, U., & Şahan, S. (2017). Determination of aluminum in dialysis concentrates by atomic absorption spectrometry after coprecipitation with lanthanum phosphate. *Journal of the Turkish Chemical Society, Section A: Chemistry*, 4(3), 913-924.
- Serrato, D. M., Pérez, J. T., Baltazar, Á. de J. R., & López, S. Y. R. (2021). Adsorbent materials for emerging contaminant (tetracycline) removal. *Int. J. Res. GRANTHAALAYAH*, 9, 446-491.
- Sinaga, A. P., Ibrahim, E., & Hadiah, F. (2024). Assessment of Changes in Water Quality of Enim River, Muara Enim, South Sumatera, Indonesia to

- Determine Environmental Designations. *Indonesian Journal of Environmental Management and Sustainability*, 8(2), 63-70.
- Somayasa, W., & Muhtar, N. (2025). Uji NONPARAMETRIK DENGAN MENGGUNAKAN STATISTIK MANN-WHITNEY U. *Jurnal Matematika, Komputasi, dan Statistika*, 5(1), 890-902.
- Sonjaya, R. P., Aliyya, F. R., & Naufal, S. (2025). *Pengujian Prasyarat Analisis Data Nilai Kelas : Uji Normalitas dan Uji Homogenitas*. 9, 1627–1639.
- Suciani, A., Ruhiat, D., & Rahayu, S. D. (2022). Komparasi hasil analisis beda rata-rata menggunakan metode statistik parametrik dan nonparametrik. *JRMST| Jurnal Riset Matematika Dan Sains Terapan*, 2(2).
- Tang, L., Xie, X., Li, C. J., Xu, Y., Zhu, W., & Wang, L. (2022). Regulation of Structure and Anion-Exchange Performance of Layered Double Hydroxide: Function of the Metal Cation Composition of a Brucite-like Layer. *Materials*, 15(22), 7983. <https://doi.org/10.3390/ma15227983>
- Tokudome, Y., Prevot, V., & Tarutani, N. (2023). Processing porous architectures based on LDH: Synthesis and novel applications. *Applied Clay Science*, 243, 107051.
- UNICEF. (2020). Indonesia: Nearly 70 percent of household drinking water sources contaminated with faecal waste. Retrieved from <https://www.unicef.org/indonesia>.
- Villar da Gama, B. M., Selvasembian, R., Giannakoudakis, D. A., Triantafyllidis, K. S., McKay, G., & Meili, L. (2022). Layered Double Hydroxides as Rising-Star Adsorbents for Water Purification: A Brief Discussion. *Molecules*, 27(15), 4900. <https://doi.org/10.3390/molecules27154900>.
- WHO. (2023). Diarrhoea: Key facts. World Health Organization. Retrieved from <https://www.who.int/news-room/fact-sheets/detail/diarrhoeal-disease>
- Wispriyono, B., Arsyina, L., Ardiansyah, I., Pratiwi, L. D., Arminsih, R., Hartono, B., ... & Novirsa, R. (2021). The role of hygiene and sanitation to the Escherichia coli contamination in drinking water in Depok City, Indonesia. *Open Access Macedonian Journal of Medical Sciences*, 9(E), 641-644.
- Ye, H., Liu, S., Yu, D., Zhou, X., Qin, L., Lai, C., Qin, F., Zhang, M., Chen, W., Chen, W., & Xiang, L. (2022). Regeneration mechanism, modification strategy, and environmental application of layered double hydroxides: Insights based on memory effect. *Coordination Chemistry Reviews*, 450, 214253.
- Zewge, F., & Mulugeta, E. (2023). Development of a Point-of-Use Drinking Water Purifier Using Aluminum Oxide-Based Flocculent-Disinfectant Composite. *Indonesian Journal of Chemistry*, 23(3), 636. <https://doi.org/10.22146/ijc.79024>

Zhang, Y., Xu, H., & Lu, S. (2021). Preparation and application of layered double hydroxide nanosheets. *RSC Advances*, 11(39), 24254–24281. <https://doi.org/10.1039/D1RA03289E>

