



DAFTAR PUSTAKA

- [BSN] Badan Standarisasi Nasional. 2019. SNI 6989-84:2019. *Cara uji kadar logam terlarut dan logam total secara Spektrofotometri Serapan Atom (SSA)/nyala*. Badan Standarisasi Nasional. Jakarta.
- Abadin, H., Ashizawa, A., Llados, F., & Stevens, Y. W. 2007. *Toxicological profile for lead*. e Agency for Toxic Substances and Disease Registry (ATSDR). Georgia, pp 319-324.
- Adams, G. O., Fufeyin, P. T., Okoro, S. E., & Ehinomen, I. 2015. Bioremediation, biostimulation and bioaugmentation: a review. *International Journal of Environmental Bioremediation & Biodegradation*, 3(1), 28-39.
- Ajithkumar, B., Ajithkumar, V. P., Iriye, R., Doi, Y., & Sakai, T. 2003. Spore-forming *Serratia marcescens* subsp. *sakuensis* subsp. nov., isolated from a domestic wastewater treatment tank. *International Journal of Systematic and Evolutionary Microbiology*, 53(1), 253-258.
- Alam, P., & Ahmade, K. 2013. Impact of solid waste on health and the environment. *International Journal of Sustainable Development and Green Economics (IJSDGE)*, 2(1), 165-168.
- Alfiyanti, E., & Putri, D. H. 2020. Precision Enumeration of The Number of Bacterial Cells with The Spread Plate Method Using Dilution. *Serambi Biologi*, 5(1), 7-10.
- Amaresan, N., Kumar, M. S., Annapurna, K., Kumar, K., & Sankaranarayanan, A. (Eds.). 2020. *Beneficial microbes in agro-ecology: bacteria and fungi*. Academic Press. London, pp 454-551.
- Brown, A., & Smith, H. 2012. *Benson's Microbiological Applications Laboratory Manual in General Microbiology Thirteenth Edition*. Mc Graw Hill Education. New York, p 270.
- Badan Perencanaan Pembangunan Daerah, 2021. http://bappeda.jogjaprov.go.id/dataku/data_dasar/index/208-pengelolaan-sampah?id_skpd=29 diakses pada 14 Maret 2022.
- Bergey, D. H. 1994. *Bergey's Manual of Determinative Bacteriology Ninth Edition*. Lippincott Williams & Wilkins. US, pp 182-187, 436.
- Carter, G. R., & Cole Jr, J. R. 2012. *Diagnostic procedure in veterinary bacteriology and mycology*. Academic Press. London, p 221.
- Cappuccino, J. G., & Welsh, C. T. 2017. *Microbiology: A Laboratory Manual, Global Edition*. Pearson Education. United Kingdom, p 184.
- Chen Z, Pan X, Chen H, Lin Z, Guan X. 2015. Investigation of lead(II) uptake by *Bacillus thuringiensis* 016. *World Journal of Microbiol Biotechnology*, 31, 1729–1736
- Colin, V. L., Villegas, L. B., & Abate, C. M. 2012. Indigenous microorganisms as potential bioremediators for environments contaminated with heavy metals. *International Biodeterioration & Biodegradation*, 69, 28-37.
- Cooney, S., O'Brien, S., Iversen, C., & Fanning, S. 2014. Bacteria: Other pathogenic Enterobacteriaceae—Enterobacter and other genera, p 438.
- Cristani, M., Naccari, C., Nostro, A., Pizzimenti, A., Trombetta, D., & Pizzimenti, F. 2012. Possible use of *Serratia marcescens* in toxic metal biosorption (removal). *Environmental Science and Pollution Research*, 19, 161-168.



- Debnath, B., Singh, W. S., & Manna, K. 2019. Sources and toxicological effects of lead on human health. *Indian Journal of Medical Specialities*, 10(2), 66-71.
- Dinas Lingkungan Hidup dan Kehutahan Daerah Istimewa Yogyakarta. 2023. *Laporan Hasil Uji Air Limbah*. Yogyakarta.
- Drzewiecka, D. 2016. Significance and roles of *Proteus* spp. bacteria in natural environments. *Microbial ecology*, 72, 741-758.
- Dos Reis Ferreira, G. M., Pires, J. F., Ribeiro, L. S., Carlier, J. D., Costa, M. C., Schwan, R. F., & Silva, C. F. 2023. Impact of lead (Pb²⁺) on the growth and biological activity of *Serratia marcescens* selected for wastewater treatment and identification of its zntR gene—a metal efflux regulator. *World Journal of Microbiology and Biotechnology*, 39(4), 1-10.
- Eduardo, G. L., Ramirez, B. S., Maribel, C. F., Pescador, M. G. N., & Cruz, F. J. M. 2018. Low accuracy of the McFarland method for estimation of bacterial populations. *African Journal of Microbiology Research*, 12(31), 736-740.
- Fatwa, E. B., Yoswaty, D., & Effendi, I. 2021. Identification Of Indigenous Bacteria from Dumai Sea Waters Using 16S rRNA Method. *Journal Of Coastal and Ocean Sciences*, 2(3), 184-188.
- Gu, J. D. 2021. On enrichment culturing and transferring technique. *Applied Environmental Biotechnology*, 6(1), 1-5.
- Halttunen, T., Salminen, S., & Tahvonen, R. 2007. Rapid removal of lead and cadmium from water by specific lactic acid bacteria. *International Journal of Food Microbiology*, 114, 30-35.
- Haynes, W. M., Lide, D. R., & Bruno, T. J. 2016. *CRC handbook of chemistry and physics*. CRC press. Boca Raton, p 21.
- Jaishankar, M., Tseten, T., Anbalagan, N., Mathew, B. B., & Beeregowda, K. N. 2014. Toxicity, mechanism and health effects of some heavy metals. *Interdisciplinary toxicology*, 7(2), 60-72.
- Juniawan A., B. Rumhayati & B. Lamuyanto. 2013. Karakteristik Lumpur Lapindo dan Fluktuasi Logam Berat Pb dan Cu pada Sungai Porong dan Aloo. *Jurnal Sains dan Terapan Kimia*, 7(1), 1-10.
- Joutey, N. T., Sayel, H., Bahafid, W., & El Ghachoui, N. 2015. Mechanisms of hexavalent chromium resistance and removal by microorganisms. *Reviews of Environmental Contamination and Toxicology*, 233, 45–69.
- Kantachote, D., & Innuwat, W. 2004. Isolation of *Thiobacillus* sp. for use in treatment of rubber sheet wastewater. *Songklanakarin Journal of Science and Technology*, 26(5), 649-657.
- Kasam, I. 2011. Analisis resiko lingkungan pada tempat pembuangan akhir (TPA) sampah (Studi kasus: TPA Piyungan Bantul). *Jurnal Sains & Teknologi Lingkungan*, 3(1), 19-30.
- Kumar, B. L., & Gopal, D. V. R. 2015. Effective role of indigenous microorganisms for sustainable environment. *3 Biotech*, 5(6), 867-876.
- Lewaru, S., R. Indah. dan M. Yuniar. 2012. Identifikasi Bakteri Indigeneus Logam Berat Cr (VI) dengan Metode Molekuler di Sungai Cikijing Rancaekek Jawa Barat. *Jurnal Perikanan dan Kelautan*, 3(4), 81-92.



- Liu, X. 2017. Urease activity in an autotrophic bacteria *Thiobacillus thiooxidans*. In *IOP Conference Series: Materials Science and Engineering*, 231(1), 1-6.
- Lundgren, K. 2012. *The global impact of e-waste: addressing the challenge*. International Labour Organization. Geneva, p 18.
- Maier, R. M., Pepper, I. L., & Gerba, C. P. 2009. *Environmental Microbiology Second Edition*. Academic Press. London, pp 37-53.
- Mailoa, M. N., Tapotubun, A. M., & Matratty, T. E. 2017. Analysis total plate counte (TPC) on fresh steak tuna applications edible coating caulerpa sp during stored at chilling temperature. In *IOP Conference Series: Earth and Environmental Science*, 89(1), 1-6.
- Naik, M. M., Khanolkar, D. S., Dubey, S. K. 2013. Lead resistant Providentia alcalifaciens strain 2EA bioprecipitates Pb²⁺ as lead phosphate. *Letters in Applied Microbiology*, 56(2), 99–104.
- National Center for Biotechnology Information 2022. PubChem Compound Summary for CID 24924, Lead nitrate. Retrieved March 31, 2022 from <https://pubchem.ncbi.nlm.nih.gov/compound/Lead-nitrate>.
- Ojuederie, O. B., & Babalola, O. O. 2017. Microbial and plant-assisted bioremediation of heavy metal polluted environments: a review. *International journal of environmental research and public health*, 14(12), 1504.
- Parasista, P. 2020. Ombudsman DIY Sampaikan Saran ke Gubernur Terkait Pengelolaan Sampah di Karmantul (TPST Piyungan). <https://ombudsman.go.id/artikel/r/artikel--ombudsman-diy-sampaikan-saran-ke-gubernur-terkait-pengelolaan-sampah-di-kartamantul-tpst-piyungan#:~:text=Bahkan%20hasil%20pengumpulan%20data%20Ombudsman,akhir%20tanpa%20perlakuan%20lebih%20lanjut>. Diakses pada 14 Maret 2022
- Park, J. H., Bolan, N., Meghraj, M., & Naidu, N. 2011. Concomitant rock phosphate dissolution and lead immobilization by phosphate solubilizing bacteria (*Enterobacter* sp.). *Journal of Environmental Management*, 92(4), 1115-1120.
- Priadie B. 2012. Teknik bioremediasi sebagai alternatif dalam upaya pengendalian pencemaran air. *Jurnal Ilmu Lingkungan*, 10(1), 38-48.
- Procop, G. W., Church, D. L., Hall, G. S., & Janda, W. M. 2020. *Koneman's color atlas and textbook of diagnostic microbiology*. Jones & Bartlett Learning. Burlington, p 18.
- Rahayu, S. P. 2008. Peranan Mikroorganisme dalam Bioremediasi Tanah yang Tercemar Logam Berat dari Limbah Industri. *Jurnal Kimia dan Kemasan*, 21-29.
- Raheem, F. A. 2022. Uji Kandungan Logam Berat Cu, Fe, Dan Pb Menggunakan Metode Atomic Absorption Spectrophotometry (AAS) Pada Air Lindi Tpa Piyungan, Bantul. *Skripsi*. Universitas Islam Indonesia.
- Raje, D. V., Purohit, H. J., & Singh, R. N. 2002. Distinguishing features of 16S rDNA gene for five dominating bacterial genus observed in bioremediation. *Journal of Computational Biology*, 9(6), 819-829.



- Ratnawati, E., Ermawati, R., & Naimah, S. 2010. Teknologi biosorpsi oleh mikroorganisme, solusi alternatif untuk mengurangi pencemaran logam berat. *Jurnal Kimia dan Kemasan*, 32(1), 34-40.
- Saha, M., Sarkar, S., Sarkar, B., Sharma, B. K., Bhattacharjee, S., & Tribedi, P. 2016. Microbial siderophores and their potential applications: a review. *Environmental Science and Pollution Research*, 23, 3984-3999.
- Said, N. I., & Hartaja, D. R. K. 2015. Pengolahan air lindi dengan proses biofilter anaerob-aerob dan denitrifikasi. *Jurnal Air Indonesia*, 8(1), 1-20.
- Shahid, M., Khalid, S., Abbas, G., Shahid, N., Nadeem, M., Sabir, M., Aslam, M., & Dumat, C. 2015. Heavy metal stress and crop productivity. *Crop production and global environmental issues*, 1-25.
- Shamsi, T. N., & Fatima, S. 2014. Metallothionein: classification, biochemical features, and clinical applications. *Journal of Proteins & Proteomics*, 5(1), 25-33.
- Shang, F., Xue, T., Wang, M., Chen, X., Yu, L., & Zhang, M. 2017. *Serratia bozhouensis* sp. nov., Isolated from Sewage Samples of a Dairy Farm. *Current microbiology*, 74, 827-831.
- Shao, W., Li, M., Teng, Z., Qiu, B., Huo, Y., & Zhang, K. 2019. Effects of Pb (II) and Cr (VI) stress on phosphate-solubilizing bacteria (*Bacillus* sp. Strain MRP-3): oxidative stress and bioaccumulation potential. *International journal of environmental research and public health*, 16(12), 2172.
- Shehzad, A., Bashir, M.J.K., Sethupathi, S., Lim, J.W., 2015. An overview of heavily polluted landfill leachate treatment using food waste as an alternative and renewable source of activated carbon. Process Saf. Environ. *Process Safety and Environmental Protection*, 98, 309–318.
- Siregar, T. H. 2009. Pengurangan Cemaran Logam Berat Pada Perairan Dan Produk Perikanan Dengan Metode Adsorbsi. *Squalen Bulletin of Marine and Fisheries Postharvest and Biotechnology*, 4(1), 24-30.
- Sumbali, G., & Mehrotra, R. S. 2009. *Principles of microbiology*. Tata McGraw-Hill Education. Delhi, pp 50-54, 90.
- Tiquia-Arashiro, S. M. 2018. Lead absorption mechanisms in bacteria as strategies for lead bioremediation. *Applied microbiology and biotechnology*, 102(13), 5437-5444.
- Utami, U., Harianie, L., Dunyana, N. R., & Romaldi. 2020. Lead-resistant bacteria isolated from oil wastewater sample for bioremediation of lead. *Water Science and Technology*, 81(10), 2244-2249.
- Vaccari, M., Tudor, T., & Vinti, G. 2019. Characteristics of leachate from landfills and dumpsites in Asia, Africa, and Latin America: an overview. *Waste Management*, 95, 416-431.
- Velásquez, L., & Dussan, J. 2009. Biosorption and bioaccumulation of heavy metals on dead and living biomass of *Bacillus sphaericus*. *Journal of hazardous materials*, 167(1-3), 713-716.
- Violante, A. U. D. N., Cozzolino, V. U. D. N., Perelomov, L. P. S. U., Caporale, A. G., & Pigna, M. U. D. N. 2010. Mobility and bioavailability of heavy metals and metalloids in soil environments. *Journal of soil science and plant nutrition*, 10(3), 268-292.
- Widiyatmono, B. R., Susanawati, L. D., & Agustianingrum, R. 2020. Bioremediasi Logam Timbal (Pb) Menggunakan Bakteri Indigenous Pada Tanah



Tercemar Air Lindi (Leachate). *Jurnal Sumberdaya Alam dan Lingkungan*, 6(3), 11-18.

Wróbel, M., Śliwakowski, W., Kowalczyk, P., Kramkowski, K., & Dobrzański, J. 2023. Bioremediation of Heavy Metals by the Genus *Bacillus*. *International Journal of Environmental Research and Public Health*, 20(6), 4964.

Yanti, D. H., Nursyirwani, N., & Yoswaty, D. 2021. Isolation and Identification of Bacteria from Dumai Marine Waters that Have Potencial as Lead Bioremediation Agents. *Journal of Coastal and Ocean Sciences*, 2(3), 217-222.

Zhang, Z., Xia, S., & Zhang, J. 2010. Production of a High Efficiency Microbial Flocculant by *Proteus mirabilis* TJ-1 Using Compound Organic Wastewater. In *AIP Conference Proceedings*, 1251(1), 364-367.