

## DAFTAR PUSTAKA

- Adi, D.A., dan Ardiansyah., 2020, Eksplorasi dan Pemanfaatan Biodiversitas Dalam Menunjang Pembangunan Nasional Berkelanjutan, Prosiding Seminar Nasional Biologi Jurusan Biologi FMIPA UHO 2019, Universitas Halu Oleo Press, Kendari
- Anggraeni, A., & Triajie, H. (2021). UJI KEMAMPUAN BAKTERI (*Pseudomonas aeruginosa*) DALAM PROSES BIODEGRADASI PENCEMARAN LOGAM BERAT TIMBAL (Pb), DI PERAIRAN TIMUR KAMAL KABUPATEN BANGKALAN. *Juvenil:Jurnal Ilmiah Kelautan Dan Perikanan*, 2(3), 176–185. <https://doi.org/10.21107/juvenil.v2i3.11754>
- Ayele, A., & Godeto, Y. G. (2021). Bioremediation of Chromium by Microorganisms and Its Mechanisms Related to Functional Groups. In *Journal of Chemistry* (Vol. 2021). Hindawi Limited. <https://doi.org/10.1155/2021/7694157>
- Azubuiké CC, Chikere CB, Okpokwasii GC. 2016. Bioremediation techniques– classification based on site of application: principles, advantages, limitations and prospects. *World J Microbiol Biotechnol*. 32:180.
- Chen, S., Wang, X., Zhao, Q., Xu, Q., & Zhang, Y. (2024). Dissecting the Simultaneous Extracellular/Intracellular Contributions to Cr(VI) Reduction under Aerobic and Anaerobic Conditions Using the Newly Isolating Cr(VI)-Reducing Bacterium of *Pseudomonas* sp. HGB10. *Microorganisms*, 12(10). <https://doi.org/10.3390/microorganisms12101958>
- Fernandez, P.M., Vinarta, S.C., Bernal, A.R., Cruz, E.L., Figueroa, L.I.C., 2018. Bioremediation strategies for chromium removal: Current research, scale-up approach and future perspectives. *Chemosphere* 208, 139–148
- Gonzalez, C. F., Ackerley, D. F., Lynch, S. V., & Matin, A. (2005). ChrR, a soluble quinone reductase of *Pseudomonas putida* that defends against H<sub>2</sub>O<sub>2</sub>. *Journal of Biological Chemistry*, 280(24), 22590–22595. <https://doi.org/10.1074/jbc.M501654200>
- Hartanti, P. I., A. T. S. Haji, dan R. Wirosodarmo. 2014. Pengaruh kerapatan tanaman eceng gondok (*Eichornia crassipes*) terhadap penurunan logam kromium pada limbah cair penyamakan kulit. *Jurnal Sumberdaya Alam dan Lingkungan*. 1(2):31-35.
- Islam, M. M., Mohana, A. A., Rahman, M. A., Rahman, M., Naidu, R., & Rahman, M. M. (2023). A Comprehensive Review of the Current Progress of Chromium Removal Methods from Aqueous Solution. In *Toxics* (Vol. 11, Issue 3). MDPI. <https://doi.org/10.3390/toxics11030252>
- Jin, Q., & Kirk, M. F. (2018). pH as a primary control in environmental microbiology: 1. thermodynamic perspective. *Frontiers in Environmental Science*, 6(MAY). <https://doi.org/10.3389/fenvs.2018.00021>

- Kang, C., Wu, P., Li, Y., Ruan, B., Zhu, N., & Dang, Z. (2014a). Estimates of heavy metal tolerance and chromium(VI) reducing ability of *pseudomonas aeruginosa* CCTCC AB93066: Chromium(VI) toxicity and environmental parameters optimization. *World Journal of Microbiology and Biotechnology*, 30(10), 2733–2746. <https://doi.org/10.1007/s11274-014-1697-x>
- Kang, C., Wu, P., Li, Y., Ruan, B., Zhu, N., & Dang, Z. (2014b). Estimates of heavy metal tolerance and chromium(VI) reducing ability of *pseudomonas aeruginosa* CCTCC AB93066: Chromium(VI) toxicity and environmental parameters optimization. *World Journal of Microbiology and Biotechnology*, 30(10), 2733–2746. <https://doi.org/10.1007/s11274-014-1697-x>
- Ke, Z., Bai, Y., Bai, Y., Chu, Y., Gu, S., Xiang, X., Ding, Y., & Zhou, X. (2022). Cold plasma treated air improves the characteristic flavor of Dry-cured black carp through facilitating lipid oxidation. *Food Chemistry*, 377. <https://doi.org/10.1016/j.foodchem.2021.131932>
- Khater, D. Z., Amin, R. S., Fetohi, A. E., Mahmoud, M., & El-Khatib, K. M. (2023). Insights on hexavalent chromium(VI) remediation strategies in abiotic and biotic dual chamber microbial fuel cells: electrochemical, physical, and metagenomics characterizations. *Scientific Reports*, 13(1). <https://doi.org/10.1038/s41598-023-47450-9>
- Kongjao, S., S. Damronglerd, dan M. Hunsom. 2008. Simultaneous removal of organic and inorganic pollutants in tannery wastewater using electrocoagulation technique. *Korean Journal of Chemical Engineering*. 25(4): 703-709.
- Kristianto, S., Wilujeng, S., dan Wahyudiarto, D., 2017, Analisis Logam Berat Kromium (Cr) Pada Kali Pelayaran Sebagai Bentuk Upaya Penanggulangan Pencemaran Lingkungan Di Wilayah Sidoarjo, *Biota* 3(2): 66-70
- Kumar, N., Walther, C. and Gupta, D.K. (2023) *Chromium in plants and environment*. Cham: Springer.
- Kuncoro & Soedjono,. (2022). Studi Pustaka: Teknologi Pengolahan Air Limbah pada Industri Penyamakan Kulit. *Jurnal Teknik ITS*. 11. 10.12962/j23373539.v11i3.99654.
- Lukic B, Antonio Panico, David Huguenot, Massimiliano Fabbricino, Eric D. van Hullebusch & Giovanni Esposito. 2017. A review on the efficiency of landfarming integrated with composting as a soil remediation treatment, *Environmental Technology Reviews*, 6:1, 94 - 116,
- Maryudi *et al.* (2021) 'Teknologi Pengolahan Kandungan Kromium Dalam Limbah Penyamakan Kulit Menggunakan proses adsorpsi: Review', *Jurnal Teknik Kimia dan Lingkungan*, 5(1), pp. 90–99.
- Melati, I. 2020. Teknik bioremediasi: keuntungan, keterbatasan dan prospek riset. *Prosiding Seminar Nasional Biologi, Teknologi dan Kependidikan*. 8(1): 272-286.

- Nair S, Krishnamurthi VS. Effect of chromium on growth of *Pseudomonas aeruginosa*. *Indian J Exp Biol*. 1991 Feb;29(2):140-4. PMID: 1907947.
- Narendranath, N. V., & Power, R. (2005). Relationship between pH and medium dissolved solids in terms of growth and metabolism of lactobacilli and *Saccharomyces cerevisiae* during ethanol production. *Applied and Environmental Microbiology*, 71(5), 2239–2243. <https://doi.org/10.1128/AEM.71.5.2239-2243.2005>
- Ozturk, S., Kaya, T., Aslim, B., & Tan, S. (2012). Removal and reduction of chromium by *Pseudomonas* spp. and their correlation to rhamnolipid production. *Journal of Hazardous Materials*, 231–232, 64–69. <https://doi.org/10.1016/j.jhazmat.2012.06.038>
- Pang, B., Yu, H., Zhang, J., Ye, F., Wu, H., & Shang, C. (2022). Identification of differentially expressed genes for *Pseudomonas* sp. Cr13 stimulated by hexavalent chromium. *PLoS ONE*, 17(8 August). <https://doi.org/10.1371/journal.pone.0272528>
- Plestenjak, E., Kraigher, B., Leskovec, S., Mandic Mulec, I., Marković, S., Ščančar, J., & Milačič, R. (2022). Reduction of hexavalent chromium using bacterial isolates and a microbial community enriched from tannery effluent. *Scientific Reports*, 12(1). <https://doi.org/10.1038/s41598-022-24797-z>
- Rahman, Z., & Thomas, L. (2021). Chemical-Assisted Microbially Mediated Chromium (Cr) (VI) Reduction Under the Influence of Various Electron Donors, Redox Mediators, and Other Additives: An Outlook on Enhanced Cr(VI) Removal. In *Frontiers in Microbiology* (Vol. 11). Frontiers Media S.A. <https://doi.org/10.3389/fmicb.2020.619766>
- Sali, G., Suprabawati, A. and Purwanto, Y. (2018) 'Efektivitas Teknik Biofiltrasi dengan media Sarang Tawon TERHADAP Penurunan Kadar nitrogen total Limbah Cair', *Jurnal Presipitasi: Media Komunikasi dan Pengembangan Teknik Lingkungan*, 15(1), p. 1. doi:10.14710/presipitasi.v15i1.1-6.
- Sandi, N. M. E., Rasyidah, R., & Mayasari, U. (2024). BIOREMEDIASI KROMIUM (Cr) MENGGUNAKAN BAKTERI INDIGENOUS DARI LIMBAH CAIR DI SUNGAI DELI MEDAN. *Jurnal Biogenerasi*, 9(1), 1001-1008.
- Sathishkumar, K., Murugan, K., Benelli, G., Higuchi, A., & Rajasekar, A. (2017). Bioreduction of hexavalent chromium by *Pseudomonas stutzeri* L1 and *Acinetobacter baumannii* L2. *Annals of Microbiology*, 67(1), 91–98. <https://doi.org/10.1007/s13213-016-1240-4>
- Shi, Y., Wang, Z., Li, H., Yan, Z., Meng, Z., Liu, C., Chen, J., & Duan, C. (2023a). Resistance mechanisms and remediation potential of hexavalent chromium in *Pseudomonas* sp. strain AN-B15. *Ecotoxicology and Environmental Safety*, 250. <https://doi.org/10.1016/j.ecoenv.2023.114498>
- Sugihartono. 2016. Pemisahan krom pada limbah cair industri penyamakan kulit menggunakan gelatin dan flokulan anorganik. *Majalah Kulit*,

- Karet, dan Plastik. 32(1): 21-30.
- Suparno, O., A. D. Covington, dan C. S. Evans. 2012. Teknologi baru penyamakan kulit ramah lingkungan: penyamakan kombinasi menggunakan penyamak nabati, naftol dan oksazolidin. *Jurnal Teknologi Industri Pertanian*. 18(2): 79-84.
- Suyono, Y., & Salahudin, F. (2011). IDENTIFIKASI DAN KARAKTERISASI BAKTERI *PSEUDOMONAS* PADA TANAH YANG TERINDIKASI TERKONTAMINASI LOGAM (Identification and Characterization bacteria *Pseudomonas* on Metal Contaminated Soil indicated). *Jurnal BIOPROPAL INDUSTRI*, 01.
- Thompson, D. K., Chourey, K., Wickham, G. S., Thieman, S. B., VerBerkmoes, N. C., Zhang, B., McCarthy, A. T., Rudisill, M. A., Shah, M., & Hettich, R. L. (2010). Proteomics reveals a core molecular response of *Pseudomonas putida* F1 to acute chromate challenge. *BMC Genomics*, 11(1). <https://doi.org/10.1186/1471-2164-11-311>
- Vieto, S., Rojas-Gätjens, D., Jiménez, J.I. and Chavarría, M. (2021), The potential of *Pseudomonas* for bioremediation of oxyanions. *Environmental Microbiology Reports*, 13: 773-789.
- Wang, Q., Zhang, C., Song, J., Bamanu, B., & Zhao, Y. (2024). Inhibitory mechanism of Cr(VI) on sulfur-based denitrification: Bio-toxicity, bio-electron characteristics, and microbial evolution. *Journal of Hazardous Materials*, 472. <https://doi.org/10.1016/j.jhazmat.2024.134447>
- Wani, P. A., Wahid, S., Khan, M. S. A., Rafi, N., & Wahid, N. (2019). Investigation of the role of chromium reductase for Cr (VI) reduction by *Pseudomonas* species isolated from Cr (VI) contaminated effluent. *Biotechnology Research and Innovation*, 3(1), 38–46. <https://doi.org/10.1016/j.biori.2019.04.001>
- Wignyanto, 2020, Bioremediasi Dan Aplikasinya, UB Press, Malang
- Zewail, Taghreed & Yousef, Nibal. (2014). Chromium ions (Cr<sup>6+</sup>&Cr<sup>3+</sup>) removal from synthetic wastewater by electrocoagulation using vertical expanded Fe anode. *Journal of Electroanalytical Chemistry*. 735. 10.1016/j.jelechem.2014.09.002.