

DAFTAR PUSTAKA

- Amalya, F. L. (2024). *PENYERAPAN LOGAM KADMIUM (Cd) DI LARUTAN MENGGUNAKAN BIOCHAR BERBAHAN DASAR LIMBAH KAWA DAUN MENGGUNAKAN METODE RESPONSE SURFACE METHODOLOGY (RSM) UNTUK OPTIMASI OPERASIONAL*.
- Ashraf, S., Ali, Q., Zahir, Z. A., Ashraf, S., & Asghar, H. N. (2019). Phytoremediation: Environmentally sustainable way for reclamation of heavy metal polluted soils. In *Ecotoxicology and Environmental Safety* (Vol. 174). <https://doi.org/10.1016/j.ecoenv.2019.02.068>
- Babyak, M. A. (2004). What You See May Not Be What You Get: A Brief, Nontechnical Introduction to Overfitting in Regression-Type Models. *Psychosomatic Medicine*, 66, 411–421. https://doi.org/10.1300/J120v12n27_14
- Breig, S. J. M., & Luti, K. J. K. (2021). Response surface methodology: A review on its applications and challenges in microbial cultures. *Materials Today: Proceedings*, 42, 2277–2284. <https://doi.org/10.1016/j.matpr.2020.12.316>
- Chelladurai, S. J. S., Murugan, K., Ray, A. P., Upadhyaya, M., Narasimharaj, V., & Gnanasekaran, S. (2020). Optimization of process parameters using response surface methodology: A review. *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2020.06.466>
- Cherono, F., Mburu, N., & Kakoi, B. (2021). Adsorption of lead, copper and zinc in a multi-metal aqueous solution by waste rubber tires for the design of single batch adsorber. *Heliyon*, 7(11). <https://doi.org/10.1016/j.heliyon.2021.e08254>
- Creamer, A. E., & Gao, B. (2016). Carbon-based adsorbents for postcombustion CO₂ capture: A critical review. *Environmental Science and Technology*, 50(14), 7276–7289. <https://doi.org/10.1021/acs.est.6b00627>

- Defri, I., Palupi, N. S., Wahyudi, S. T., & Yuliana, N. D. (2022). Antioxidant Analysis of Kawa Daun (*Coffea canephora*) Beverage by In Vitro and In Silico Approaches. *Indonesian Journal of Chemistry*, 22(2), 374–386. <https://doi.org/10.22146/ijc.69422>
- Dhawane, S. H., Kumar, T., & Halder, G. (2015). Central composite design approach towards optimization of flamboyant pods derived steam activated carbon for its use as heterogeneous catalyst in transesterification of Hevea brasiliensis oil. *Energy Conversion and Management*, 100, 277–287. <https://doi.org/10.1016/j.enconman.2015.04.083>
- Di Leo, G., & Sardanelli, F. (2020). Statistical significance: p value, 0.05 threshold, and applications to radiomics—reasons for a conservative approach. *European Radiology Experimental*, 4(1). <https://doi.org/10.1186/s41747-020-0145-y>
- Dunca, A. M. (2018). Water pollution and water quality assessment of major transboundary rivers from Banat (Romania). *Journal of Chemistry*, 2018. <https://doi.org/10.1155/2018/9073763>
- Fahrudin, A. (2018). Pengaruh Jenis Bioaktivator terhadap Laju Dekomposisi Serasah Daun Jati (*Tectona granis L*) di Wilayah Kampus UNHAS. *Jurnal Biologi Makassar*, 3(2), 31–42.
- Figueira, M. M., Volesky, B., & Ciminelli, V. S. T. (1997). Assessment of interference in biosorption of a heavy metal. *Biotechnology and Bioengineering*, 54(4). [https://doi.org/10.1002/\(sici\)1097-0290\(19970520\)54:4<344::aid-bit7>3.0.co;2-k](https://doi.org/10.1002/(sici)1097-0290(19970520)54:4<344::aid-bit7>3.0.co;2-k)
- Gurnita, Mulyadi, A., & Ibrahim, Y. (2022). Uji Kandungan Beberapa Unsur Logam Berat pada Air Irigasi, Tanah dan Sayuran Kangkung (*Ipomoea aquatica* Forsk) di Kawasan Industri Kecamatan Margaasih Kabupaten Bandung. In *Biosfer : Jurnal Biologi dan Pendidikan Biologi* (Vol. 7, Issue 2). <https://doi.org/10.23969/biosfer.v7i2.6820>

- Hariyono, B. (2021). Multifungsi Biochar dalam Budidaya Tebu. *Buletin Tanaman Tembakau, Serat & Minyak Industri*, 13(2), 94–112. <https://doi.org/10.21082/btsm.v13n2.2021.94-112>
- Ihsan, M., & Elfrida. (2023). Analisis Kandungan Pb, Cd Dan Hg Pada Ikan Baung (*Hemibagrus Nemurus*) Dan Air Di Perairan Batang Palangki Kecamatan IV Nagari Kabupaten Sijunjung Provinsi Sumatera Barat. *Article of Undergraduate Research, Faculty of Fisheries and Marine Science, Bung Hatta University*, 23(1), 1–2. <https://ejurnal.bunghatta.ac.id/index.php/FPIK/article/view/23828>
- Karina. (2020). Analisis Kandungan Logam Berat Cu, Zn dan Fe pada Beberapa Lokasi Pemanfaatan di Perairan Danau Diatas Kabupaten Solok. In *Universitas Andalas*. <https://www-1tandfonline-1com-1mijdrsul0a52.hps.bj.uj.edu.pl/doi/abs/10.1080/09688080.2018.1467361%0Ahttps://about.jstor.org/terms%0Ahttps://www.jstor.org/stable/3174448?seq=1>
- Liku, J. E. A., Mulya, W., Sipahutar, M. K., Sari, I. P., & Noeryanto. (2022). Mengidentifikasi Sumber Pencemaran Air Limbah di Tempat Kerja. *Eunoia: Jurnal Pengabdian Masyarakat*, 1(1), 14–19. <http://jurnal.d4k3.uniba-bpn.ac.id/index.php/EUNOIA/article/view/169/135>
- Liu, J., Wang, F., & Xu, W. (2023). Characteristics of Zinc Adsorption onto Biochars Derived from Different Feedstocks. *Water (Switzerland)*, 15(21). <https://doi.org/10.3390/w15213789>
- Mamoribo, H., Rompas, R. J., & Kalesaran, O. J. (2015). Determinasi Kandungan Kadmium (Cd) Di Perairan Pantai Malalayang Sekitar Rumah Sakit Prof Kandou Manado. *E-Journal BUDIDAYA PERAIRAN*, 3(1), 114–118. <https://doi.org/10.35800/bdp.3.1.2015.6945>

- Masykury, R., Syandri, H., & Azrita. (2023). Kontaminasi Logam Berat di Air, Sedimen dan Daging Ikan Ngongai (*Bagarius bagarius*) di Kawasan Konservasi Batang Kuantan Sijunjung. *Jurnal Sumberdaya Akuatik Indopasifik*, 7(4), 381–399. <https://ejournalfpikunipa.ac.id/index.php/JSIAI/article/view/339>
- Mohan, D., & Singh, K. P. (2002). Single- and multi-component adsorption of cadmium and zinc using activated carbon derived from bagasse - An agricultural waste. *Water Research*, 36(9). [https://doi.org/10.1016/S0043-1354\(01\)00447-X](https://doi.org/10.1016/S0043-1354(01)00447-X)
- Novi, C., Tri, W. E., & Aprilita, N. H. (2013). Pengaruh Ion Pb (II) Dan Ion Cd (II) Terhadap Efektivitas Fotoreduksi Ion Hg (II) yang Terkatalisis TiO₂. *Berkala MIPA*, 2(I), 14–27.
- Oni, B. A., Oziegbe, O., & Olawole, O. O. (2019). Significance of biochar application to the environment and economy. *Annals of Agricultural Sciences*, 64(2), 222–236. <https://doi.org/10.1016/j.aoas.2019.12.006>
- Oyuela Leguizamo, M. A., Fernández Gómez, W. D., & Sarmiento, M. C. G. (2017). Native herbaceous plant species with potential use in phytoremediation of heavy metals, spotlight on wetlands — A review. *Chemosphere*, 168, 1230–1247. <https://doi.org/10.1016/j.chemosphere.2016.10.075>
- Puari, A., Rusnam, & Yanti, N. R. (2022). Optimization of the Carbonization Parameter of Exhausted Coffee Husk (ECH) as Biochar for Pb and Cu Removal Based on Energy Consumption. *Jurnal Teknik Pertanian Lampung (Journal of Agricultural Engineering)*, 11(2), 242–252. <https://doi.org/10.23960/jtep-l.v11i2.242-252>
- Puari, A. T., Anandika, A., Apriani, I. I., Azora, A., & Maida, S. P. (2025). Contamination level of heavy metals and assessment of the ecologic risk in the surface water and sediments of Batanghari river, Dharmasraya region, Indonesia. *Journal of*

- Ecological Engineering*, 26(4), 182–197.
<https://doi.org/10.12911/22998993/199978>
- Rahmah Nasution, M., Br Manullang, M., & Bathara, L. (2020). AKTIVITAS ANTIOKSIDAN SEDUHAN DAUN KOPI KAWA KERING (*Coffea arabica* L) DENGAN METODE DPPH. *Jurnal Insan Farmasi Indonesia*, 3(1), 114–123.
<https://doi.org/10.36387/jifi.v3i1.467>
- Rosyidah, N. F., & Rachmadiarti, F. (2023). *Salvinia molesta* sebagai Agen Fitoremediasi Logam Berat Zink (Zn) di Perairan. *LenteraBio*, 12(3), 430–438.
- Rusnam, Puari, A. T., Yanti, N. R., & Efrizal. (2022). Utilisation of Exhausted Coffee Husk as Low-Cost Bio-Sorbent for Adsorption of Pb²⁺. *Tropical Life Sciences Research*, 33(3), 229–252. <https://doi.org/10.21315/tlsr2022.33.3.12>
- Sholikhah, M., & Rachmadiarti, F. (2019). Kemampuan Tumbuhan *Ludwigia adscendens* dalam Menyerap Logam Berat Kadmium (Cd) pada Berbagai Konsentrasi. *LenteraBio*, 8(3), 219–224. <http://ejournal.unesa.ac.id/index.php/lenterabio>
- Sukono, G., Hikmawan, F., Evitasari, D., & Satriawan, D. (2020). Mekanisme Fitoremediasi. *Jurnal Pengendalian Pencemaran Lingkungan (JPPL)*, 2(2), 40–46.
- Susilowati, P. E. (2021). STUDI BIOAKUMULASI LOGAM CROM (Cr), SENG (Zn) DAN NIKEL (Ni) PADA TANAMAN OBAT BINAHONG (*Anredera cordifolia* (Ten) Steenis.). *Akta Kimia Indonesia*, 6(1), 12.
<https://doi.org/10.12962/j25493736.v6i1.7850>
- Wang, J., Shi, L., Zhai, L., Zhang, H., Wang, S., Zou, J., Shen, Z., Lian, C., & Chen, Y. (2021). Analysis of the long-term effectiveness of biochar immobilization remediation on heavy metal contaminated soil and the potential environmental factors weakening the remediation effect: A review. *Ecotoxicology and Environmental Safety*, 207.

- Westfall, P. H., & Arias, A. L. (2020). R-Squared, Adjusted R-Squared, the F Test, and Multicollinearity. In *Understanding Regression Analysis*.
<https://doi.org/10.1201/9781003025764-8>
- Wilan, T. (2019). *Pemanfaatan Mikroalga sebagai Biosorben pada Proses Biosorpsi Logam Berat*. Universitas Trisakti.
- Yanti, N. R., Puari, A. T., Rusnam, & Stiyanoto, E. (2022). Potential of Exhausted Kahwa Coffee as Activated Carbon to Remove Cd^{2+} and Zn^{2+} . *IOP Conference Series: Earth and Environmental Science*, 1059(1).
<https://doi.org/10.1088/1755-1315/1059/1/012041>

