

DAFTAR PUSTAKA

- Agustriani, F., Ida, A., & Purwiyanto, S. (2016). Penilaian Pengkayaan Logam Timbal (Pb) dan Tingkat Kontaminasi Air Ballast di Perairan Tanjung Api-Api, Sumatera Selatan. *Omni-Akuatika*, 12(3). <https://doi.org/10.20884/1.oa.2016.12.3.133>
- Aminullah, E. (2022). Dynamics of Capability Upgrading in Indonesian Herbal Medicine Firms. *STI Policy and Management Journal*, 7(2). <https://doi.org/10.14203/STIPM.2022.348>
- Anami, W. R., Maslahat, M., & Arrisujaya, D. (2020). PRESIPITASI LOGAM BERAT LIMBAH CAIR LABORATORIUM MENGGUNAKAN NATRIUM SULFIDA DARI BELERANG ALAM. *Jurnal Sains Natural*, 10(2), 61. <https://doi.org/10.31938/jsn.v10i2.283>
- Ang, L., Song, E., Lee, H. W., & Lee, M. S. (2020). Herbal Medicine for the Treatment of Coronavirus Disease 2019 (COVID-19): A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *Journal of Clinical Medicine*, 9(5), 1583. <https://doi.org/10.3390/jcm9051583>
- Arifa, N., Rahayu, M., Sunarti, S., & Rugayah, R. (2021). The Utilization of Tokulo (*Kleinhovia hospita* L.) as Traditional Medicine by Wawonii Community in Lampeapi Village, Wawonii Island, Southeast Sulawesi. *Journal of Tropical Ethnobiology*, 4(2), 105–110. <https://doi.org/10.46359/jte.v4i2.96>
- Barokah, S. P. G. R., Dwiyitno, D., & Nugroho, I. (2019). Kontaminasi Logam Berat (HG, PB, dan CD) dan Batas Aman Konsumsi Kerang Hijau (*Perna viridis*) dari Perairan Teluk Jakarta di Musim Penghujan. *Jurnal Pascapanen Dan Bioteknologi Kelautan Dan Perikanan*, 14(2), 95. <https://doi.org/10.15578/jpbkp.v14i2.611>
- Borhan, F. P. et al. (2013). The Use of D-Optimal Mixture Design in Optimising Okara Soap Formulation for Stratum Corneum Application.
- Dhany, U. R., Puji, M., Aulia, R., & Antika, T. (2022). Utilization of Herbal Herbs for Health to Increase Body Immunity During the Covid-19 Pandemic In Kraksaan District, Probolinggo Regency, East Java Province. *Empowerment Society*, 5(1), 16–21. <https://doi.org/10.30741/eps.v5i1.816>

- Dong, L., Wang, P., & Yang, J. (2006). The Role of H₂O in Nitric Oxide Removal by Wet-Type Corona Discharge Plasma Reactor. *Japanese Journal of Applied Physics*, 45(5R), 4222. <https://doi.org/10.1143/JJAP.45.4222>
- Dubé, J.-S., & Galvez-Cloutier, R. (2005). Applications of data on the mobility of heavy metals in contaminated soil to the definition of site-specific remediation criteria. *Journal of Environmental Engineering and Science*, 4(5), 399–411. <https://doi.org/10.1139/s04-077>
- Erdayanti, P., Hanifah, T. A., & Anita, S. (2015). ANALISIS KANDUNGAN LOGAM TIMBAL PADA SAYUR KANGKUNG DAN BAYAM DI JALAN KARTAMA PEKANBARU SECARA SPEKTROFOTOMETRI SERAPAN ATOM. In *JOM FMIPA* (Vol. 2, Issue 1).
- Fitriani, F. (2017). PENYERAPAN ION LOGAM Pb(II) DARI LARUTAN MENGGUNAKAN SERBUK DAUN PURING (*Codiaeum variegatum*). *Jurnal Pendidikan Matematika Dan IPA*, 8(1), 34. <https://doi.org/10.26418/jpmipa.v8i1.18421>
- Ganjhu, R. K., Mudgal, P. P., Maity, H., Dowarha, D., Devadiga, S., Nag, S., & Arunkumar, G. (2015). Herbal plants and plant preparations as remedial approach for viral diseases. *VirusDisease*, 26(4), 225–236. <https://doi.org/10.1007/s13337-015-0276-6>
- Gardea-Torresdey, J.L., J.H. Gonzalez, K. J. T. & O. R. (1998). Biosorption of Cadmium, Chromium, Lead, and Zinc By Biomass of *Medicago Sativa* (Alfalfa). *Journal of Hazardous Materials*, 29–39.
- Gurnita, G., Sondari, N., & Budiasih, R. (2017). Potensi Rumput Akar Wangi (*Vetiveria zizanoides* L.) Sebagai Akumulator Logam Berat Timbal (Pb) Pada Tailing Tambang Emas Dengan Pengindus Amonium Sulfat. *BIOSFER: Jurnal Biologi Dan Pendidikan Biologi*. <https://doi.org/10.23969/biosfer.v2i1.373>
- Hartanti, D. (2012). Kontaminasi Pada Obat Herbal. *Jurnal Farmasi Indonesia*.
- Helaluddin, A., Khalid, R. S., Alaama, M., & Abbas, S. A. (2016). Main Analytical Techniques Used for Elemental Analysis in Various Matrices. *Tropical Journal of Pharmaceutical Research*, 15(2), 427. <https://doi.org/10.4314/tjpr.v15i2.29>

- Husainov, D. R., Shylina, V. V., Korenyuk, Ivan I, & Shulgin, V. F. (2010). Modifying action of heavy metal salts on an-ti-inflammatory aspirin action. *Health*, 02(06), 630–633. <https://doi.org/10.4236/health.2010.26095>
- Ifa, L., Pakala, F. R., Jaya, F., & Majid, R. A. (2020). Pemanfaatan Sabut Kelapa Sebagai Bioadsorben Logam Berat Pb(II) Pada Air Limbah Industri. *Journal of Chemical Process Engineering*, 5(1), 54–60. <https://doi.org/10.33536/jcpe.v5i1.476>
- Jamilatun, S., Setyawan, M., Janah, L., Alfiyani, R., & Mufandi, I. (2021). Activation of Coconut Shell Charcoal and Application for Bleaching Used Cooking Oil. *CHEMICA: Jurnal Teknik Kimia*, 8(1), 56. <https://doi.org/10.26555/chemica.v8i1.20085>
- Jia, L., Ma, H., Guan, Y., Zou, L., Jiang, L., Hang, Y., feng, X., Ren, X., Tian, Y., Pan, H., & Rong, S. (2022). Lead absorption capacity in different parts of plants and its influencing factors: a systematic review and meta-analysis. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-022-24718-7>
- Juhaeti, T. , S. F. , and H. N. ,. (2004). Inventory of Potential Plants for Fitoremediation of Land and Degraded Water in Gold Mining. *Biodiversity*, 6, 31–33.
- KANNAUJIA, R. K., & SINGH, S. (2012). Levels, Spatial Distribution and Possible Sources of Heavy Metal Contamination of Suburban Soil in Jhansi. *Oriental Journal Of Chemistry*, 28(4), 1913–1918. <https://doi.org/10.13005/ojc/280453>
- Karina, E., Berata, I. K., & Setiasih, N. L. E. (2022). Histopatologi Hati Tikus yang Terpapar Logam Berat Timbal. *Buletin Veteriner Udayana*, 1. <https://doi.org/10.24843/bulvet.2023.v01.i01.p01>
- Kiswandono, A. A., Prasetyo, S. I., Rinawati, R., Rahmawati, A., & Risgiyanto, A. (2022). ANALISIS LOGAM BERAT Cd, Fe DAN Pb PADA AIR SUNGAI WAY UMPU KABUPATEN WAY KANAN SECARA SPEKTROFOTOMETER SERAPAN ATOM. *Analit: Analytical and Environmental Chemistry*, 7(1), 68. <https://doi.org/10.23960/aec.v7i1.2022.p68-79>
- Kosalec, I., Cvek, J., & Tomić, S. (2009). Contaminants of Medicinal Herbs and Herbal Products. *Archives of Industrial Hygiene and Toxicology*, 60(4), 485–501. <https://doi.org/10.2478/10004-1254-60-2009-2005>

- Kusumo, A. R., Wiyoga, F. Y., Perdana, H. P., Khairunnisa, I., Suhandi, R. I., & Prastika, S. S. (2020). JAMU TRADISIONAL INDONESIA: TINGKATKAN IMUNITAS TUBUH SECARA ALAMI SELAMA PANDEMI. *Jurnal Layanan Masyarakat (Journal of Public Services)*, 4(2), 465. <https://doi.org/10.20473/jlm.v4i2.2020.465-471>
- Lv, S., Ma, X., Fu, Q., Zheng, Y., & Ma, Z. (2023). Removal of Hexamethyldisiloxane by NaOH-Activated Porous Carbons Produced from Coconut Shells. *Catalysts*, 13(6), 918. <https://doi.org/10.3390/catal13060918>
- M, M., Sosidi, H., Sumarni, N. K., Ys., H., Ruslan, Inda, N. I., & Mirzan, Moh. (2022). Penggunaan Karbon Aktif dari Tandan Kosong Kelapa Sawit Teraktivasi NaOH pada Penyerapan Ion Pb(II). *KOVALEN: Jurnal Riset Kimia*, 8(1), 92–98. <https://doi.org/10.22487/kovalen.2022.v8.i1.15847>
- Malau, R., Azizah, R., Susanto, A., Santosa, G. W., & Irwani, I. (2018). Kandungan Logam Berat Timbal (Pb) Pada Air, Sedimen, Dan Rumput Laut *Sargassum* sp. Di Perairan Teluk Awur, Jepara. *Jurnal Kelautan Tropis*, 21(2), 155. <https://doi.org/10.14710/jkt.v21i2.3010>
- Maslahat, M., Taufik, A., & Subagja, P. W. (2017). PEMANFAATAN LIMBAH CANGKANG TELUR SEBAGAI BIOSORBEN UNTUK ADSORPSI LOGAM Pb Dan Cd. *Jurnal Sains Natural*, 5(1), 92. <https://doi.org/10.31938/jsn.v5i1.104>
- Masthura, M., & Putra, Z. (2018). Karakterisasi Mikrostruktur Karbon Aktif Tempurung Kelapa dan Kayu Bakau. *Elkawanie*, 4(1). <https://doi.org/10.22373/ekw.v4i1.3076>
- Mayori, D. V. A., Rahardja, B. S., Suciyono, S., & Lutfiyah, L. (2020). Kombinasi rumput laut (*Eucheuma cottonii*) dan kerang hijau (*Perna viridis*) sebagai biofilter logam berat timbal (Pb). *Depik*, 9(2), 151–155. <https://doi.org/10.13170/depik.9.2.15762>
- Noor, R. J., Kabangnga, A., & Fathuddin, F. (2021). Distribusi Spasial dan Faktor Kontaminasi Logam Berat di Pesisir Kota Makassar. *Jurnal Kelautan Tropis*, 24(1), 93–101. <https://doi.org/10.14710/jkt.v24i1.9619>
- Nugroho, A. (2012). Pemanfaatan Software dalam Penelitian. Universitas Gajah Mada.

- Nurafriyanti, N., Prihatini, N. S., & Syauqiah, I. (2017). PENGARUH VARIASI pH DAN BERAT ADSORBEN DALAM PENGURANGAN KADAR Cr TOTAL PADA LIMBAH ARTIFISIAL MENGGUNAKAN ADSORBEN AMPAS DAUN TEH. *Jukung (Jurnal Teknik Lingkungan)*, 3(1). <https://doi.org/10.20527/jukung.v3i1.3200>
- Nurfadhilla, N., Nurruhwati, I., Sudianto, S., & Hasan, Z. (2020). Tingkat Pencemaran Logam Berat Timbal (Pb) pada Tutut (Filopaludina javanica) di Waduk Cirata Jawa Barat. *Akuatika Indonesia*, 5(2), 61. <https://doi.org/10.24198/jaki.v5i2.27268>
- Park, J.-Y., & Lee, J.-D. (2005). The Simultaneously Generating Characteristics of Dissolved O₃ and H₂O₂ Using a Wet Packed-Barrier Type Reactor Applied High-Frequency Voltage in Tap Water. *Journal of Advanced Oxidation Technologies*, 8(1). <https://doi.org/10.1515/jaots-2005-0107>
- Permatasari, D., Heraldry, E., & Lestari, W. W. (2016). Biosorption of toxic lead (II) ions using tomato waste (*Solanum lycopersicum*) activated by NaOH. 030022. <https://doi.org/10.1063/1.4941488>
- Pourret, O. (2018). On the Necessity of Banning the Term “Heavy Metal” from the Scientific Literature. *Sustainability*, 10(8), 2879. <https://doi.org/10.3390/su10082879>
- Pranoto, P., Martini, T., & Maharditya, W. (2020). Uji Efektivitas dan Karakterisasi Komposit Tanah Andisol/Arang Tempurung Kelapa Untuk Adsorpsi Logam Berat Besi (Fe). *ALCHEMY Jurnal Penelitian Kimia*, 16(1), 50. <https://doi.org/10.20961/alchemy.16.1.33286.50-65>
- Pratami, D. K., Desmiaty, Y., Simorangkir, E. M., & Faradhila, D. (2021). Standardisasi dan Uji Aktivitas Antioksidan Ekstrak Bahan Alam Propolis untuk Terapi Infeksi SARS-CoV2. *JURNAL ILMU KEFARMASIAN INDONESIA*, 19(2), 272. <https://doi.org/10.35814/jifi.v19i2.1062>
- Pratiwi, R., Septyani, R. N., Febriany, R., Saputri, F. A., & Nuwarda, R. F. (2019). Design and Optimization of Colorimetric Paper-Based Analytical Device for Rapid Detection of Allopurinol in Herbal Medicine. *International Journal of Analytical Chemistry*, 2019, 1–7. <https://doi.org/10.1155/2019/4682839>

- Putri, W. A. E., & Anggraini, N. (2022). Akumulasi Logam Berat (Cu dan Pb) pada Kerang Darah *Anadara granosa* yang Berasal dari Perairan Muara Sungai Musi. *Jurnal Penelitian Sains*, 24(1), 24. <https://doi.org/10.56064/jps.v24i1.678>
- Rama Jyothi, N. (2021). Heavy Metal Sources and Their Effects on Human Health. In *Heavy Metals - Their Environmental Impacts and Mitigation*. IntechOpen. <https://doi.org/10.5772/intechopen.95370>
- ROMLI, M. (2017). Hubungan kadar Pb dalam darah dengan prestasi belajar pada anak sekolah di SDN Grinting 01 Kecamatan Bulakamba Kabupaten Brebes. *JURNAL KESEHATAN LINGKUNGAN INDONESIA*, 15(2), 35. <https://doi.org/10.14710/jkli.15.2.35-41>
- Salih, W. M., Gzar, H. A., & Hassan, N. F. (2023). Sorption of Lead, Zinc and Copper from Simulated Wastewater by Amberlite Ir-120 Resin. *Journal of Engineering*, 18(09), 1042–1054. <https://doi.org/10.31026/j.eng.2012.09.05>
- Sartika, W. A. D., & Permatasari, A. (2018). FORMULASI SABUNANTI JERAWATEKSTRAK ETANOL DAUN KERSEN (*Muntingia calabura* L.). *Journal of Pharmaceutical Care Anwar Medika*, 1(1). <https://doi.org/10.36932/j-pham.v1i1.6>
- Setyorini. (2003). *Penelitian Peningkatan Produktivitas Lahan* melalui Teknologi Pertanian Organik.
- Sukma, R. M., Gafur, Abd., & Hasriwiani Habo Abbas. (2021). Biokadar Logam Berat Timbal, Arsen pada Air dan Ikan Sungai Tallo Kota Makassar. *Window of Public Health Journal*, 404–416. <https://doi.org/10.33096/woph.v1i4.132>
- Sun, Y., Zheng, L., Zheng, X., Xiao, D., Yang, Y., Zhang, Z., Ai, B., & Sheng, Z. (2022). Adsorption of Sulfonamides in Aqueous Solution on Reusable Coconut-Shell Biochar Modified by Alkaline Activation and Magnetization. *Frontiers in Chemistry*, 9. <https://doi.org/10.3389/fchem.2021.814647>
- Supriyantini, E., Yulianto, B., Ridlo, A., Sedjati, S., & Nainggolan, A. C. (2018). Pemanfaatan Chitosan Dari Limbah Cangkang Rajungan (*Portunus pelagicus*) sebagai Adsorben Logam Timbal (Pb). *Jurnal Kelautan Tropis*, 21(1), 23. <https://doi.org/10.14710/jkt.v21i1.2399>

- Tangsathitkulchai, C., Naksusuk, S., Wongkoblap, A., Phadungbut, P., & Borisut, P. (2021). Equilibrium and Kinetics of CO₂ Adsorption by Coconut Shell Activated Carbon Impregnated with Sodium Hydroxide. *Processes*, 9(2), 201. <https://doi.org/10.3390/pr9020201>
- Wijayanti, A., Susatyo, E. B., Kurniawan, C., & Sukarjo, D. (2018). Indonesian Journal of Chemical Science Adsorpsi Logam Cr(VI) dan Cu(II) pada Tanah dan Pengaruh Penambahan Pupuk Organik. In *J. Chem. Sci* (Vol. 7, Issue 3). <http://journal.unnes.ac.id/sju/index.php/ijcs>
- Yanti, E. F., & Laili, Z. (2023). Analisis Logam Berat Timbal (Pb) Dalam Body Lotion Yang Beredar di Pasar Jember. *Journal of Islamic Pharmacy*, 7(2), 94–99. <https://doi.org/10.18860/jip.v7i2.17448>
- Zhang, T., Wen, M., Zeng, Z., Lu, Y., Wang, Y., Wang, W., Shao, X., Wang, Z., & Makroni, L. (2020). Effect of NH₃ and HCOOH on the H₂O₂ + HO → HO₂ + H₂O reaction in the troposphere: competition between the one-step and stepwise mechanisms. *RSC Advances*, 10(15), 9093–9102. <https://doi.org/10.1039/D0RA00024H>