# DAFTAR PUSTAKA


[1] M. R. Failani and N. A. Mufarida, “Pemanfaatan Limbah Oli Bekas Menjadi Bahan Bakar Alternatif Dengan Metode Penambahan Campuran Asam Sulfat Dan Natrium Hidroksida Utilization Of Used Oil Waste Into An Alternative Fuel By Adding A Mixture Of Sulfuric Acid And Sodium Hydroxide,” vol. 5, no. 6, pp. 731–740, 2024.

[2] M. C. T. Manossoh, N. F. Setyawati, and P. Iin, “Pengelolaan limbah bahan berbahaya dan beracun (b3) oli bekas pada bengkel motor cv. cahaya multi motor di muara jawa,” vol. 11, no. 3, pp. 444–447, 2025.

[3] Z. Arifin, H. Istiqomah, and N. R. Febrianti, “Produksi Base Oil dari Oli Pelumas Bekas dengan Metode Ekstraksi Menggunakan Pelarut 1-Butanol,” pp. 31–36, 2024.

[4] P. Indriani, P. E. R. Lubis, U. D. Citra, N. Misella, M. N. S. Rangkuti, and A. Febriyossa, “EFEKTIVITAS CACING TANAH (Lumbricus rubellus) SEBAGAI AGEN BIOREMEDIASI TANAH TERCEMAR OLI MESIN DI KOTA MEDAN,” vol. 9, no. 2, pp. 1396–1404, 2024.

[5] A. T. Pratiwi, B. R. Widiatmo, and R. Wirasoedarmo, “Adsorpsi Minyak dan Timbal ( Pb ) pada Air Limbah Bengkel Mobil Menggunakan Bentonit dan Cangkang Telur Ayam ( Gallus domesticus ) sebagai Adsorben,” vol. 22, no. 1, pp. 125–131, 2024, doi: 10.14710/jil.22.1.125-131.125.

[6] T. M. Da Cunha, M. Y. B. Fone, B. D. Tawa, and A. R. B. Ola, “Karakteristik Pelumas Bekas Hasil Adsorpsi Menggunakan Arang Batang Kesambi (Schleichera oleosa) dan Zeolit Alam Ende Teraktivasi H3PO4,” vol. 3, no. 1, pp. 1–11, 2022.

[7] K. Y. Foo and B. H. Hameed, “Detoxification of pesticide waste via activated carbon adsorption process,” vol. 175, p. 2010, 2010, doi: 10.1016/j.jhazmat.2009.10.014.

[8] R. Nafi’ah, “Kinetika Adsorpsi Pb (II) Dengan Adsorben Arang Aktif dari Sabut Siwalan,” *Farm. Sains dan Prakt.*, vol. I, no. 2, pp. 28–37, 2016.

[9] S. Huda, R. Dwi, and L. Kurniasari, “KARAKTERISASI KARBON AKTIF DARI BAMBU ORI (BAMBUSA ARUNDINACEA) YANG DI

AKTIVASI MENGGUNAKAN ASAM KLORIDA (HCl),” vol. 5, no. 1, pp. 22–27, 2020.

[10] A. De Nino *et al.*, “Efficient and Fast Removal of Oils from Water Surfaces via Highly Oleophilic Polyurethane Composites,” 2021.

[11] A. D. Salim, “Effect of Activated Carbon Prepared from Polyurethane Foam Residues on Removing Heavy Metals from Ain Kabisa Water,” vol. 9, no. 2, pp. 275–291, 2026.

[12] L. A. Baidar, M. Medjahdi, B. Mahida, and B. Mechab, “Polyurethane Foam and Algae-Based Activated Carbon Biocomposites for Oil Spill Remediation,” 2024.

[13] R. I. Sazzad *et al.*, “Heliyon Advancing sustainable lubricating oil management : Re-refining techniques , market insights , innovative enhancements , and conversion to fuel,” *Heliyon*, vol. 10, no. 20, p. e39248, 2024, doi: 10.1016/j.heliyon.2024.e39248.

[14] S. R. Dewi, A. Sulastri, P. Studi, T. Lingkungan, U. Tanjungpura, and K. Barat, “Envirotek : Jurnal Ilmiah Teknik Lingkungan,” vol. 15, no. 2, pp. 149–154, 2023.

[15] W. O. Akintunde, O. A. Olugbenga, and O. O. Olufemi, “Some Adverse Effects of Used Engine Oil ( Common Waste Pollutant ) On Reproduction of Male Sprague Dawley Rats,” vol. 3, no. 1, pp. 46–51, 2015.

[16] J. Wang, C. Che, and Y. Wang, “Overview on the environmental impact of used engine oil”, doi: 10.1088/1742-6596/2927/1/012007.

[17] T. Y. Haan, P. Mimie, I. Nordin, N. Izzah, A. Juanda, and M. A. Mohd, “Advances in Environmental and Engineering Research A Review on Adsorption Process for the Treatment of Oily Wastewater,” 2023, doi: 10.21926/aeer.2301016.

[18] S. Peng, D. Gong, Y. Zhou, C. Zhang, Y. Li, and C. and Y. S. Zhang, “Study on Green Degradation Process of Polyurethane Foam Based on Integral Utilization and Performance of Recycled,” *Mater. 2022*, vol. 15, no. 4269, p. 14, 2022, doi: https://doi.org/10.3390/ma1512426.

[19] J. Lach, “Adsorption of sulfacetamide on commercial activated carbons : statistics and kinetics of adsorption,” *Desalin. Water Treat.*, vol. 274, pp.

173–186, 2022, doi: 10.5004/dwt.2022.28913.

[20] M. Wasilewska, A. Derylo-marczewska, and A. W. Marczewski, *Comprehensive Studies of Adsorption Equilibrium and Kinetics for Selected Aromatic Organic Compounds on Activated Carbon*. 2024.

[21] S. H. Mohd-setapar, M. Irwan, and R. Thahir, "Purification of Used Engine Oil by Pyrolysis – Adsorption Method Assisted Coal Activated Carbon," vol. 11, no. 1, pp. 26–30, 2024.

[22] Zilfa, Safni, and S. Amanda, "The Potential Of Palm Shell Activated Carbon As An Adsorbent For Heavy Metals In The Recycling Process Of Used Lubricating Oil," *IJCR*, vol. 9, no. 1, pp. 28–39, 2024.

[23] E. Fitzer, K. H. Kochling, H. P. Boehm, and H. Marsh, "Recommended Terminology for The Description Of carbon As A Solid," vol. 67, no. 3, pp. 473–506, 1995.

[24] V. D. Pratiwi, N. Kamal, and S. Juhanda, "Analisis Pengaruh Waktu Aktivasi dan Adsorpsi dalam Pemanfaatan Karbon Aktif dari Serutan Kayu menjadi Adsorben Limbah Cair," vol. 3, no. 1, pp. 71–78, 2019.

[25] M. Ganmo *et al.*, "Journal of Environmental Chemical Engineering From coconut shell to functional carbon : A review of thermochemical production , activation , and sustainability assessment of biochar," vol. 14, no. April, 2026, doi: 10.1016/j.jece.2026.122706.

[26] E. H. Sujiono, D. Zabrian, V. Zharvan, and N. A. Humairah, "Results in Chemistry Fabrication and characterization of coconut shell activated carbon using variation chemical activation for wastewater treatment application," *Results Chem.*, vol. 4, no. November 2021, p. 100291, 2022, doi: 10.1016/j.rechem.2022.100291.

[27] B. A. Olufemi and A. M. Otuoze, "COMPARATIVE ADSORPTION OF CRUDE OIL USING COCONUT SHELL AND COCONUT SHELL ACTIVATED CARBON," vol. 9, no. 2, 2018.

[28] B. K. Opoku, J. O. Friday, E. D. Kofi, and E. B. Osa, "Adsorption of Heavy Metals Contaminants in Used Lubricating Oil Using Palm Kernel and Coconut Shells Activated Carbons," vol. 8, no. 1, pp. 11–18, 2020, doi: 10.11648/j.ajche.20200801.13.

[29] S. Makowska, D. Szymborski, and N. Sienkiewicz, “Current Progress in Research into Environmentally Friendly,” pp. 1–30, 2024.

[30] A. Prociak and M. Kura, “Bio-Polyurethane Foams Modified with a Mixture of Bio-Polyols of Different Chemical Structures,” 2023.

[31] M. Barczewski and M. Kura, “The Effect of a Chemical Foaming Agent and the Isocyanate Index on the Properties of Open-Cell Polyurethane Foams,” pp. 1–17, 2022.

[32] R. E. Dra, B. Mahida, M. Medjahdi, B. Mechab, N. Ramdani, and D. Baillis, “Super-Hydrophobic Polyurethane / Activated Biochar Composites with Polydimethylsiloxane Coating for High-Efficiency Organic Liquid Uptake,” pp. 1–15, 2026.

[33] Z. C. Ng, R. A. Roslan, W. J. Lau, and M. Gürsoy, “A Green Approach to Modify Surface Properties of Polyurethane Foam for Enhanced Oil Absorption,” pp. 1–14, 2020.

[34] B. Noureddine, S. Zitouni, B. Achraf, and C. Houss, “applied sciences Development and Characterization of Tailored Polyurethane Foams for Shock Absorption,” 2022.

[35] I. Hamawand, T. Yusaf, and S. Rafat, “Recycling of Waste Engine Oils Using a New Washing Agent,” pp. 1023–1049, 2013, doi: 10.3390/en6021023.

[36] J. Lianna *et al.*, “Penjernihan minyak pelumas bekas dengan metode penjerapan,” vol. 1, no. 1, pp. 252–257, 2012.

[37] W. El Malti, M. Hamieh, A. Noaman, R. N. El-dine, A. Hijazi, and W. Al-khatib, “Polyurethane Loaded with Vegetable Activated Carbon for Heavy Metals Removal from Water,” vol. 22, no. 9, pp. 99–110, 2021.

[38] K. R. da Rocha, O. Chiavone-Filho, and H. N. M. d Oliveira, “Post-Consumer Polyurethane Foams Hydrophobization Through Surface Modifications for Oil Spill Sorption,” vol. 26, pp. 1–10, 2023, doi: https://doi.org/10.1590/1980-5373-MR-2022-0536.