

DAFTAR PUSTAKA

- Abd El-Gawad, H. (2014). "Oil and grease removal from industrial wastewater using new utility approach." *Advances in Environmental Chemistry* **2014**(1): 916878.
- Ahmed, N., et al. (2026). "Fats, oil, and grease (FOG) in wastewater: sources, mechanisms, control, and removal strategies." *International Journal of Environmental Science Technology* **23**(2): 161.
- Aji, A. B., et al. (2024). "Analisa pengaruh variasi ketebalan serta jenis coating pada pelat baja SS400 terhadap laju korosi dan uji adhesi." *Jurnal Teknik Perkapalan* **12**(2).
- Akbar, I. and A. Silmi (2021). "Pengolahan limbah minyak dan lemak di restoran Padang dengan metode fisik (oil grease trap)." *Jurnal TechLINK* **5**(2): 1-7.
- Andini, K. R. and A. U. Rahmah (2023). Pengaruh Penggunaan Alat Perangkap Lemak (Grease Trap) Terhadap Penurunan Kadar COD Pengolahan Air Limbah Domestik, Universitas Muhammadiyah Surakarta.
- Areli, A. J., et al. (2025). "Pemberdayaan Masyarakat Dalam Pengelolaan Limbah Minyak Jelantah: Produksi Lilin Aromaterapi Ramah Lingkungan Di Dusun Belahan Desa Gedangan Kecamatan Kutorejo Kabupaten Mojokerto." *ABDI MASSA: Jurnal Pengabdian Nasional* **5**(04): 101-110.
- Awad, S., et al. (2019). "Free Volume Properties Of The Zinc Oxide Nanoparticles/Waterborne Polyurethane Coating System Studied by a Slow Positron Beam." *Journal of Composite Materials* **53**(13): 1765-1775.
- Cabrera, D. V., et al. (2024). "Grease Trap Waste Valorization Through Hydrothermal Liquefaction And Anaerobic Digestion: A Circular Approach To Dairy Wastewater Treatment." *Energy Environmental Science* **17**(22): 8926-8941.
- Dian, J. (2017). Sintesis dan karakterisasi komposit polyurethane berpenguat nanocellulose dari serat tandan kosong kelapa sawit sebagai bahan akustik, Institut Teknologi Sepuluh Nopember.
- Díez-Pascual, A. M. and A. L. Díez-Vicente (2014). "Poly (3-hydroxybutyrate)/ZnO Bionanocomposites With Improved Mechanical, Barrier And Antibacterial Properties." *International journal of molecular sciences* **15**(6): 10950-10973.
- Fauzi, F. N. A. M., et al. (2026). "A Comparative Analysis of the Physical, Mechanical, and Morphological Properties of Industrial vs. Green Polyurethane as Grouting Materials." *Trends in Sciences* **23**(1): 11121-11121.
- Fu, Y., et al. (2021). "Anti-greasy and conductive superamphiphobic coating applied to the carbon brushes/conductive rings of hydro-generators." *RSC*

- advances **11**(20): 12381-12391.
- Gultom, F. (2015). "Preparation and Characterization of Polyol Natural Rubber Latex Based Polyurethane Foam." AGRIUM: Jurnal Ilmu Pertanian **19**(2).
- Hooda, V. (2018). "A Novel Polyurethane/Nano ZnO Matrix For Immobilization Of Chitinolytic Enzymes And Optical Sensing Of Chitin." International journal of biological macromolecules **106**: 1173-1183.
- Iasmin, M., et al. (2016). "Quantifying fat, oil, and grease deposit formation kinetics." Water Research **88**: 786-795.
- Ilhani, V. (2021). "Pembuatan Poliuretan Elastomer Ramah Lingkungan Berazaskan Jatropha Oil." Jurnal Sains dan Teknologi Reaksi **19**(01).
- Iyare, P. U., et al. (2020). "Microplastics Removal In Wastewater Treatment Plants: A Critical Review." Environmental Science: Water Research Technology **6**(10): 2664-2675.
- Jiang, J., et al. (2018). "The Advancing Of Zinc Oxide Nanoparticles For Biomedical Applications." Bioinorganic chemistry applications **2018**(1): 1062562.
- Kanda, A. S. and A. D. Rahmawati (2024). "Efektivitas Pengolahan Limbah Minyak Rumah Tangga Terhadap Peningkatan Ekonomi Sebagai Pencegahan Pencemaran Air dan Lingkungan." Jurnal Ilmiah Research Student. 1(3): 933-941.
- Kusum, S. A. (2022). Enhancing the Collection System Conveyance by Reducing the Formation and Surface Adhesion of Fat, Oil, and Grease (FOG) Deposit, North Carolina State University.
- Kusumawati, E., et al. (2023). Uji Kinerja Unit Dissolved Air Flotation (DAF) untuk Menurunkan Kadar Minyak dan Lemak serta Total Suspended Solid (TSS) Air Limbah Restoran. Prosiding Industrial Research Workshop and National Seminar.
- Li, Y., et al. (2023). "Mechanically robust and fast room-temperature self-healing waterborne polyurethane constructed by coordination bond and hydrogen bond with antibacterial and photoluminescence functions." Progress in Organic Coatings **174**: 107256.
- Liu, Y., et al. (2026). "Covalently bonded ZnO-reinforced waterborne polyurethane incorporating carboxymethyl chitosan with synergistic antibacterial and antifouling functions." Chemical Engineering Journal. 174112.
- Melyna, E., et al. (2024). "Pengaruh penambahan Zinc Oxide (ZnO) Terhadap Kuat Tarik, Kuat Impak, Dan Kristalinitas Komposit Pp Daur Ulang/Serat Rami." Journal of Polymer Chemical Engineering Technology. **2**(1): 19-28.
- Michael, M. (2020). "London's fatbergs and affective infrastructuring." Social Studies of Science **50**(3): 377-397.
- Mulyani, H. and A. Sujarwanta (2018). "Lemak dan minyak." Lembaga Penelitian

UM Metro

- Neswati, N., et al. (2019). "Synthesis, Characterization And Modification Of Flexible Polyurethane Foams Using Raw Materials From Biopolyols Based On Palm Oil And Other Vegetable Oils: A Review." *Jurnal Agro Industri*.
- O'Sullivan, O. and T. Curran (2020). "Comparison Of The Lipid Components Found In Grease Trap Waste From Different Restaurants." *Biosystems Food Engineering Research Review* 25-207.
- Purnawan, A. D. W. and A. Setyaningrum (2018). "Pengolahan Limbah Cair Rumah Makan Dengan Sistem Kombinasi Presipitasi-Aerobic Biofilter." 47.
- Qi, Q.-r., et al. (2024). "Research Progress of SN38 Drug Delivery System In Cancer Treatment." *International Journal of Nanomedicine*: 945-964.
- Rahman, M. M. (2020). "Polyurethane/zinc oxide (PU/ZnO) composite—synthesis, protective property and application." *Polymers* **12**(7): 1535.
- Raja, P. M. (2020). "Karakterisasi Komposit Poliuretan Dengan Pengisi (Filler) Mikro Karbon Aktif Dari Cangkang Kelapa: Activated Carbon." *Jurnal Agro Fabrica*. **2**(1): 7-15.
- Rezakalla, A. I. and S. Andrey (2023). "The Mechanical Properties Improvement Of Polyurethane Rubbers By Using Titanium Oxide And Calcium Carbonate Modifiers (Additives)." *Mater Plast* **60**: 108-120.
- Rocha, K. R. d., et al. (2023). Reduction, Recycling, And Reuse Of Polyurethane Mattresses For Recovering Oils Spilled In Seawater: Kinetics And Surface Phenomena Study. *Proceedings of the 17. Brazilian congress on polymers*.
- Setiawan, B. A. (2020). Penggunaan Grease Trap Model Zig-Zag Terhadap Penurunan Ketebalan Lapisan Minyak Dan Lemak, Poltekkes Kemenkes Yogyakarta.
- Sinambela, H. A. (2018). "Pengaruh Komposisi Pengisi Serta Tekanan Hot Press Terhadap Kekuatan Tarik Komposit Poliester Berpengisi Partikel Zinc Oxide (ZnO)." *Jurnal Teknik Kimia USU* **7**(2): 40-44.
- Sismantoro, A. (2017). Karakterisasi Bahan Akustik Poliuretan Berpenguat Partikel Cangkang Kelapa Sawit, Skripsi tidak dipublikasikan. Surabaya: Jurusan Teknik Material dan Metalurgi.
- Sisnayati, S., et al. (2021). "Penurunan BOD, TSS, Minyak Dan Lemak Pada Limbah Cair Pabrik Kelapa Sawit Menggunakan Proses Aerasi Plat Berlubang." *Jurnal teknik kimia* **27**(2): 38-45.
- Suherna, S., et al. (2019). "Analisis Ketahanan Abrasi Material Outsole Polyurethane (Pu) & Nitrile Butadine Rubber (Nbr) pada Safety Shoes Cheetah di PT. X." *Sintek Jurnal: Jurnal Ilmiah Teknik Mesin* **13**(1): 26-31.
- Toader, G., et al. (2024). "State-of-the-art polyurea coatings: synthesis aspects, structure-properties relationship, and nanocomposites for ballistic protection applications." *Jurnal Polymers* **16**(4): 454.

- Tran, M. H. and E. Y. Lee (2023). "Production Of Polyols And Polyurethane From Biomass: A Review." *Environmental Chemistry Letters* **21**(4): 2199-2223.
- Untari, B. and A. Ainna (2020). "Penentuan Kadar Asam Lemak Bebas dan Kandungan Jenis Asam Lemak dalam Minyak yang Dipanaskan dengan Metode Titrasi Asam Basa dan Kromatografi Gas." *Jurnal Ilmiah Bakti Farmasi*. **5**(1): 1-10.
- Wang, H., et al., (2024). "Effects Of Isocyanate Structure On The Properties Of Polyurethane: Synthesis, Performance, And Self-Healing Characteristics." *Polymers* **16**(21): 3045.
- Zaharah, T. A., Nurlina, N., & Moelyani, R. R. (2018). Reduksi minyak, lemak, dan bahan organik limbah rumah makan menggunakan grease trap termodifikasi karbon aktif. *Jurnal Pengelolaan Lingkungan Berkelanjutan (Journal of Environmental Sustainability Management)*, 1(3), 25–33. <https://doi.org/10.36813/jplb.1.3.25-33>