

DAFTAR PUSTAKA

- Adi, W. B., Adiansyah, J. S., & Muladi, A. (2024). Evaluasi Jejak Karbon Produk Tahu di Kelurahan Abian Tubuh Kota Mataram Menggunakan Pendekatan Penilaian Daur Hidup (*Life Cycle Assessment*). *Jurnal Ilmu Lingkungan*, 22(2), 439–446. <https://doi.org/10.14710/jil.22.2.439-446>
- Aisyah, S. (2023). *Analisis Daur Hidup Produk Wajik Salak Pada Lima Ukm Di Kawasan Agrowisata Turi*. Universitas Gadjah Mada.
- Akinnawo, S. O. (2023). Eutrophication: Causes, consequences, physical, chemical and biological techniques for mitigation strategies. *Environmental Challenges*, 12, 100733. <https://doi.org/10.1016/j.envc.2023.100733>
- Alhashim, R., Deepa, R., & Anandhi, A. (2021). Environmental impact assessment of agricultural production using lca: A review. *Climate*, 9(11), 1–62. <https://doi.org/10.3390/cli9110164>
- Alkhtib, A., Burton, E., Wilson, P. B., Scholey, D., & Bentley, J. (2023). Effect of life cycle inventory choices and nutritional variation on carbon footprint of broiler meat production. *Journal of Cleaner Production*, 383(August 2022), 135463. <https://doi.org/10.1016/j.jclepro.2022.135463>
- Alshnable, F. (2012). *Material & Energy Balances*. Near East Engineering Faculty Food Engineering Department.
- Amanda, Rafiqah., & Buraroh, L. (2017). *the Study of the Utilization of Limbah Salak Based on the Analysis of Agribusiness*. 21(1), 1–7.
- Anggraini, S., Lesmana, A., Pengaraian, U. P., & Hulu, R. (2022). *Potensi Pengolahan Limbah Salak Pondoh Dikabupaten Rokan Hulu Potential For Treatment Of Salak Pondoh Waste In Rokan*. 03(03), 383–391.
- Asrina, Jamaluddin, & Fadilah, R. (2021). *C dengan lama penggorengan 30 menit, A 2 : suhu 80*. 7, 67–78. <https://ojs.unm.ac.id/ptp/article/view/12434/8667>
- Astomo, R. B. W., Syahputra, M. A., & Mahmudah, A. (2022). *Jurnal Abdikarya: Jurnal Karya Pengabdian Dosen dan Mahasiswa E-ISSN: 2655-9706 Vol 5 No 2*. 5(2), 154–158.
- Azevedo, L. B., Roy, P.-O., Verones, F., Van Zelm, R., & Huijbregts, M. A. J. (2012). 7. *Terrestrial Acidification*.
- Balali-Mood, M., Naseri, K., Tahergorabi, Z., Khazdair, M. R., & Sadeghi, M. (2021). Toxic Mechanisms of Five Heavy Metals: Mercury, Lead, Chromium, Cadmium, and Arsenic. *Frontiers in Pharmacology*, 12. <https://doi.org/10.3389/fphar.2021.643972>
- Balisanislam, Harahap, P., & Lubis, S. (2021). Perancangan Alat Inverter Energi Listrik Menggunakan Simulink Matlab. *Jurnal Rekayasa Material, Manufaktur Dan Energi*, 4(2), 91–98.
- Bappenas. (2021). *Study Report: Food Loss and Waste in Indonesia, Supporting the Implementation of Circular Economy and Low Carbon Development*. 1–116.
- Bintang, E. Y. (2016). *Life Cycle Assessment Produk Keripik Salak di Kelompok Wanita Tani (KWT) Sri Rejeki Aneka Olahan Salak 'Cristal.'* Universitas Gadjah Mada.

- BPS. (2022). *Produksi Tanaman Buah-buahan 2022*. BPS-Statistics Indonesia. <https://www.bps.go.id/indicator/55/62/1/produksi-tanaman-buah-%09buahan.html>
- Brahmana, S. S., Achmad, F., Litbang Sumber Daya Air Jln Ir Juanda, P. H., & Utama Teknik Lingkungan Keairan, P. (2012). Potensi Beban Pencemaran Nitrogen, Fosfat, Kualitas Air, Status Trofik Dan Stratifikasi Waduk Riam Kanan. In *Jurnal Sumber Daya Air* (Vol. 8, Issue Mei).
- Cederberg, C. (2011). *Global food losses and food waste* (Issue October 2018).
- Chaware, Dr. S. A., Sahoo, Dr. S. K., Dash, M., Jagadesh, Dr. M., & Kumar, S. (Eds.). (2023). *Advances in Soil Science (Volume-1)*. Bright Sky Publications. <https://doi.org/10.22271/bs.book.87>
- Curran, M. A. (2017). *Overview of Goal and Scope Definition in Life Cycle Assessment*. Springer Nature. https://doi.org/10.1007/978-94-024-0855-3_1
- Darmawan, M. I., Ilmannafian, A. G., & Kiptiah, M. (2021). *Kajian Life Cycle Assessment (Lca): Analisis Cradle To Gate Pertanian Jagung Pakan Di Kelompok Tani Desa Bajuin, Kabupaten Tanah Laut*. 17(3), 178–185.
- Dinas Perindustrian, Perdagangan, dan K. K. S. (2019). *Persebaran Unit Usaha Pengolahan Salak di Kabupaten Sleman*. Dinperindagkop.
- Diogo Aparecido Lopes Silva, U., Oliveira Nunes, A., Aparecida da Silva Moris, V., Moro Piekarski, C., & Oliveira Rodrigues, T. (2017). How important is the LCA software tool you choose? Comparative results from GaBi, openLCA. *Cilca*, November 2020. https://www.researchgate.net/profile/Thiago-Rodrigues-20/publication/318217178_How_important_is_the_LCA_software_tool_you_choose_Comparative_results_from_GaBi_openLCA_SimaPro_and_Umberto/links/5f5e51c0299bf104cf75bc02/How-important-is-the-LCA-software-tool-you-choose-Comparative-results-from-GaBi-openLCA-SimaPro-and-Umberto
- Dwi Yunita, R., & Kiswandono, A. A. (2017). Kajian Indeks Standar Pencemar Udara (Ispu) Sulfur Dioksida (So₂) Sebagai Polutan Udara Pada Tiga Lokasi Di Kota Bandar Lampung. In *Analit: Analytical and Environmental Chemistry* (Vol. 2, Issue 01).
- European Environment Agency. (2020, March 9). *Europe's Environment - The Dobris Assessment 31. Acidification*. <https://www.eea.europa.eu/publications/92-826-5409-5/Page031new.html>.
- Field, C. B., & Raupach, M. R. (2004). *The Global Carbon Cycle: Integrating Humans, Climate, and the Natural World*.
- GaBi. (2009). Handbook for *Life Cycle Assessment (LCA)*. In *Using the GaBi Education Software Package, PE International* (Vol. 60). Leinfelden-Echterdingen.
- Gaglio, M., Tamburini, E., Lucchesi, F., Aschonitis, V., Atti, A., Castaldelli, G., & Fano, E. A. (2019). *Life Cycle Assessment of maize-germ oil production and the use of bioenergy to mitigate environmental impacts: A gate-to-gate case study*. *Resources*, 8(2). <https://doi.org/10.3390/resources8020060>
- Giudice, Fabio., La Rosa, Guido., & Risitano, Antonino. (2006). *Product design for the environment : a life cycle approach*. CRC Press.

- GreenDelta. (2016a). Basic Modelling Software OpenLCA Version 1.5. In *openLCA 1.5* (Issue September). GreenDelta.
- GreenDelta. (2016b). *LCIA methods Impact assessment methods in Life Cycle Assessment and their impact categories*.
- Harjanto, T. R., Fahrurrozi, M., & Bendiyasa, I. M. (2014). *Life Cycle Assessment Pabrik Semen PT Holcim Indonesia Tbk. Pabrik Cilacap: Komparasi antara Bahan Bakar Batubara dengan Biomassa. Jurnal Rekayasa Proses*, 6(2), 51–58.
- Harsono, P. (2012). Mulsa Organik: Pengaruhnya terhadap Lingkungan Mikro, Sifat Kimia Tanah dan Keragaan Cabai Merah di Tanah Vertisol Sukoharjo pada Musim Kemarau. In *J. Hort. Indonesia* (Vol. 3, Issue 1).
- IPCC, I. P. O. N. C. C. (2019). 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories. In *The 49th session of the IPCC Report, The Intergovernmental Panel on Climate Change*.
- Jamaludin, J., Eko Nugroho, L. P., & Darmawati, E. (2018). Investigation of Rot Disease on the Salak's Taper Tip along the Supply Chain. *Jurnal Keteknik Pertanian*, 6(3), 303–310. <https://doi.org/10.19028/jtep.06.3.303-310>
- Kementerian Energi dan Sumber Daya Mineral. (2020). Inventarisasi emisi GRK bidang energi. *Inventarisasi Emisi Gas Rumah Kaca Sektor Energi Tahun 2020*, 41. <https://www.esdm.go.id/assets/media/content/content-inventarisasi-emisi-gas-rumah-kaca-sektor-energi-tahun-2020.pdf>
- Kemeterian Lingkungan Hidup. (2013). *Pedoman Teknis Penyusunan Inventarisasi Emisi Pencemar Udara Di Perkotaan*. Asdep Pengendalian Pencemaran Udara Sumber Bergerak Deputy Bidang Pengendalian Pencemaran Lingkungan.
- Kholil, P. A., Budihardjo, M. A., Muhammad, F., & Karno, K. (2022). Penilaian Daur Hidup Proses Distribusi BBM di PT Pertamina (Persero) Fuel Terminal Parepare. *Jurnal Ilmu Lingkungan*, 20(3), 685–695. <https://doi.org/10.14710/jil.20.3.685-695>
- Kim, H. S., Kim, Y. J., & Seo, Y. R. (2015). An Overview of Carcinogenic Heavy Metal: Molecular Toxicity Mechanism and Prevention. *Journal of Cancer Prevention*, 20(4), 232–240. <https://doi.org/10.15430/JCP.2015.20.4.232>
- KLH. (2012a). *Pedoman Penyelenggaraan Inventarisasi GRK Nasional: Buku I Pedoman Umum*. Kementerian Lingkungan Hidup Republik Indonesia Deputy Bidang Pengendalian Kerusakan Lingkungan dan Perubahan Iklim.
- KLH. (2012b). *Pedoman Penyelenggaraan Inventarisasi GRK Nasional: Buku II Volume 1 Metodologi Penghitungan Tingkat Emisi Gas Rumah Kaca*. Kementerian Lingkungan Hidup Republik Indonesia Deputy Bidang Pengendalian Kerusakan Lingkungan dan Perubahan Iklim.
- KLHK. (2021). *Pedoman Penyusunan Laporan Penilaian Daur Hidup (LCA). Direktorat Jendral Pengendalian Pencemaran Dan Kerusakan Lingkungan, September*, 1–82.
- Kokare, S., Oliveira, J. P., & Godina, R. (2023). *Life Cycle Assessment of additive manufacturing processes: A review. Journal of Manufacturing Systems*, 68(April), 536–559. <https://doi.org/10.1016/j.jmsy.2023.05.007>

- Kosmol, L., Maiwald, M., & Pieper, C. (2021). Mapping Energy and Material Flows for Industrial Symbiosis: RFD-IS. *ACM International Conference Proceeding Series, January*, 62–71. <https://doi.org/10.1145/3463858.3463878>
- Lestari, A. P. (2022). *food loss sebagai kehilangan pangan yang terjadi pada tahap produksi hingga tahap pengemasan, sedangkan food waste adalah pangan yang terbuang saat proses distribusi dan konsumsi*. ILCD-Indonesia.Id. <https://lcdi-indonesia.id/2022/01/31/kelola-mubazir-pangan-food-loss-and-waste-flw-untuk-mendukung-pembangunan-rendah-karbon-dan-ekonomi-sirkular-di-indonesia/>
- Lintangrino, M. C., & Boedisantoso, R. (2016). Inventarisasi Emisi Gas Rumah Kaca Pada Sektor Pertanian Dan Peternakan Di Kota Surabaya. *JURNAL TEKNIK ITS*, 5(2).
- Lipisinski, B. (2020). SDG Target 12 .3 on Food Loss and Waste : 2020 Progress Report. *ABOUT THIS PUBLICATION SDG Target 12.3 on Food Loss and Waste: 2021 Progress Report Is the Sixth in an Annual Series of Publications Providing an Assessment of the World's Progress toward Achieving Sustainable Development Goal (SDG) Target 12.3. SDG 12.3, September*, 1–16. <https://champions123.org/sites/default/files/2020-09/champions-12-3-2020-progress-report.pdf>
- Loiseau, E., Jouve, L., Salou, T., Perignon, M., Drogué, S., Rollet, P., & Roux, P. (2023). *Life Cycle Assessment of urban food supply: Key findings and recommendations from a French metropolitan area case study*. *Journal of Cleaner Production*, 401(July 2022). <https://doi.org/10.1016/j.jclepro.2023.136788>
- Makepa, D. C., Chihobo, C. H., Manhongo, T. T., & Musademba, D. (2023). Life-cycle assessment of microwave-assisted pyrolysis of pine sawdust as an emerging technology for biodiesel production. *Results in Engineering*, 20(July), 101480. <https://doi.org/10.1016/j.rineng.2023.101480>
- Makhabbah, H., & Agung, A. I. (2018). Rancang Bangun Sistem Monitoring Konsumsi Daya Listrik Dan Pemutus Daya Otomatis Berbasis Internet. *Jurnal Teknik Elektro*, 9(1), 783–790. <http://search.ebscohost.com/login.aspx?direct=true&db=sph&AN=119374333&site=ehost-live&scope=site%0Ahttps://doi.org/10.1016/j.neuron.2018.07.032%0Ahttps://dx.doi.org/10.1016/j.tics.2017.03.010%0Ahttps://doi.org/10.1016/j.neuron.2018.08.006>
- Melipurbowo, B. G. (2019). Pengukuran Daya Listrik Real Time Dengan Menggunakan Sensor Arus Acs.712. *Orbith*, 12(1), 17–23. <https://jurnal.polines.ac.id/index.php/orbith/article/view/309>
- Meteri Negara Lingkungan Hidup. (2009). *Peraturan Menteri Negara Lingkungan Hidup Nomor 35 Tahun 2009 Tentang Pengelolaan Halon*.
- Mila, G., Primasari, B., & Aziz, R. (2021). Application of *Life Cycle Assessment (LCA) On Green Tea Product (Case Study in the X Company)*. *IOP Conference Series: Materials Science and Engineering*, 1041(1), 012025. <https://doi.org/10.1088/1757-899x/1041/1/012025>

- Murti, R. S., Sugihartono, D., Besar, B., Karet, K., Yogyakarta, P., & Sokonandi, J. (2020). *Bahaya Kromium Hexavalen (Cr Vi) Pada Kulit Dan Produk Kulit Samak Krom Serta Upaya Pencegahannya Hexavalent Chromium (Cr Vi) Hazards For Leather And Leather Products And Their Preventive Measures* (Vol. 14, Issue 2).
- Nasution, Muslih. (2022). Bahan Bakar Merupakan Sumber Energi yang Sangat Diperlukan dalam Kehidupan Sehari Hari. *Journal of Electrical Technology*, 7(1), 29–33.
- Palm, J., & Bocken, N. (2021). Achieving the circular economy: Exploring the role of local governments, business and citizens in an urban context. In *Energies* (Vol. 14, Issue 4). MDPI AG. <https://doi.org/10.3390/en14040875>
- Pransiscah, E., Ramadhani, Y. C., Fara, A., Cecilia, T., Soviani, I., Salmanabila, Y., & Jannah, R. (2023). *Pemanfaatan Limbah Kulit Salak sebagai Produk Pangan Berupa Teh Kulit Salak di Kebun Salak Km . 21 Kota Balikpapan*. 5(3), 1209–1216.
- Putri, S. E., Pratiwi, D. E., & Fudhail, A. (2019). Pemanfaatan biji salak sebagai bahan dasar pembuatan kopi. *Prosiding Seminar Nasional Pengabdian Kepada Masyarakat*, 5, 308–310. <https://ojs.unm.ac.id/semnaslpm/article/view/11352>
- Ramadhani, N. L., Miftah, H., & Masithoh, S. (2022). Analisis Nilai Tambah Keripik Salak Pondoh Organik di Kelompok Tani Bangun Suruhan Desa Wonosroyo Kecamatan Watumalang Kabupaten Wonosobo Provinsi Jawa Tengah. *Jurnal Agribisains*, 8(2), 67–75. <https://doi.org/10.30997/jagi.v8i2.6626>
- Ritchie, H., Rosado, P., & Roser, M. (2020). *Environmental Impacts of Food Production*. Observatoireprevention.Org. <https://ourworldindata.org/environmental-impacts-of-food#citation>
- Rosida, D. F., Syehan, B., Happyanto, D. C., Anggraeni, F. T., & Hapsari, N. (2020). Keripik Salak Vacuum Frying Sebagai Alternatif Pengembangan Produk Inovatif Di Daerah Agroklimat Bangkalan Madura. *Jurnal Layanan Masyarakat (Journal of Public Services)*, 4(1), 23. <https://doi.org/10.20473/jlm.v4i1.2020.23-30>
- Santos, I. V., Bulle, C., Levasseur, A., & Deschênes, L. (2018). Regionalized terrestrial ecotoxicity assessment of copper-based fungicides applied in viticulture. *Sustainability (Switzerland)*, 10(7). <https://doi.org/10.3390/su10072522>
- Sholihah, N., & Tarmidzi, F. M. (2022). Diversifikasi dan Optimalisasi Pengolahan Kulit Salak melalui Perlakuan Suhu dan Durasi Penyeduhan. *JSHP : Jurnal Sosial Humaniora Dan Pendidikan*, 6(2), 190–197. <https://doi.org/10.32487/jshp.v6i2.1390>
- Silalahi, U. C., Gozan, M., & Chairani, E. (2021). *Life Cycle Assessment of powder milk production in Indonesia*. *IOP Conference Series: Earth and Environmental Science*, 716(1). <https://doi.org/10.1088/1755-1315/716/1/012038>
- Singh, P., Singh, G., & Sodhi, G. P. S. (2019). Energy auditing and optimization approach for improving energy efficiency of rice cultivation in south-western

- Punjab, India. *Energy*, 174, 269–279. <https://doi.org/10.1016/j.energy.2019.02.169>
- Stranddorf, H. K., Hoffmann, L., & Schmidt, A. (2005). Impact categories, normalisation and weighting in LCA. *Environmental News*, 78, 90. <http://www2.mst.dk/udgiv/publications/2005/87-7614-574-3/pdf/87-7614-575-1.pdf>
- Sugiyono. (2010). *Metode Penelitian Kuantitatif, Kualitatif, dan R&D*. Alfabeta, CV.
- Suharjo, M. H., Ernawati, R., & Nurkhamim. (2022). Analisis Keterdapatan Kromium Heksavalen Pada Aliran Sungai Pertambangan Nikel di Kabupaten Konawe Utara. *Jurnal Ilmiah Lingkungan Kebumian*, 5(1). <https://doi.org/10.31315/jilk.v3i2.4302>
- Sukmana, B., Surjandari, I., M., Setiawan, A. A. R., & Wiloso, E. I. (2019). Global Warming Impacts Study of Tofu Products in Mampang Prapatan Small and Medium Enterprises with *Life Cycle Assessment* Methods. *Indonesian Journal of Life Cycle Assessment and Sustainability*, 2, 9–24. <https://doi.org/10.52394/ijolcas.v3i2.75>
- Tao, M., Nie, K., Zhao, R., Shi, Y., & Cao, W. (2022). Environmental impact of mining and beneficiation of copper sulphate mine based on *Life Cycle Assessment*. *Environmental Science and Pollution Research*, 29(58), 87613–87627. <https://doi.org/10.1007/s11356-022-21317-4>
- Theodore, M. K., & Theodore, L. (2009). Introduction to environmental management. In *Introduction to Environmental Management*. CRC Press. <https://doi.org/10.2134/jeq1994.00472425002300020030x>
- UN Environmental Programme. (2018). *UN Environment statement on sources of CFC emissions*. <https://www.unep.org/news-and-stories/statement/un-environment-statement-sources-cfc-emissions>
- UNFCCC. (2018). *Sekilas Tentang Perubahan Iklim. United Nations Framework Convention on Climate Change*. United Nations Climate Change. <https://unfccc.int/documents/51673>
- United Nations. (2024, April 6). *Tujuan Pembangunan Berkelanjutan di Indonesia*. <https://Indonesia.Un.Org/Id>
- Wohlgemuth, V., Naumann, S., Behrens, G., & Arndt, H.-K. (2021). *Advances and New Trends in Environmental Informatics*. Springer International Publishing.
- World Health Organization. (2024). *Human health effects of benzene, arsenic, cadmium, nickel, lead and mercury: report of an expert consultation*. World Health Organization Europe Region.
- Xia, F., Mei, K., Xu, Y., Zhang, C., Dahlgren, R. A., & Zhang, M. (2020). Response of N₂O emission to manure application in field trials of agricultural soils across the globe. *Science of The Total Environment*, 733, 139390. <https://doi.org/10.1016/j.scitotenv.2020.139390>
- Zak, D., Goldhammer, T., Cabezas, A., Gelbrecht, J., Gurke, R., Wagner, C., Reuter, H., Augustin, J., Klimkowska, A., & McInnes, R. (2018). Top soil removal reduces water pollution from phosphorus and dissolved organic matter and lowers methane emissions from rewetted peatlands. *Journal of Applied Ecology*, 55(1), 311–320. <https://doi.org/10.1111/1365-2664.12931>

- Zuhria, S. A., Indrasti, N. S., & Yani, M. (2021). Kajian Dampak Lingkungan Produk Tepung Agar Menggunakan Metode *Life Cycle Assessment* (Lca). *Jurnal Teknologi Industri Pertanian*, 31(3), 343–355. <https://doi.org/10.24961/j.tek.ind.pert.2021.31.3.343>
- Zuliati, S., Eko Sulistyono, & Heni Purnamawati. (2020). Pengaruh Pemberian Mulsa dan Irigasi pada Pertumbuhan dan Hasil Bawang Merah (*Allium cepa* L. var. *agregatum*). *Jurnal Agronomi Indonesia (Indonesian Journal of Agronomy)*, 48(1), 52–58. <https://doi.org/10.24831/jai.v48i1.29191>