DAFTAR PUSTAKA

Adi, B. K., Joko, T., & Setiani, O. (2022). *Life Cycle Assessment*, Is it Beneficial for Environmental *Sustainability*? A Literature Review. *Serambi Engineering*, *VII*(3).

Adiwinata, F., & Rahayuningsih, M. (2021). *ANALISIS DAUR HIDUP (LIFE CYCLE ASSESSMENT) PENGOLAHAN KOPI BUBUK ROBUSTA SECARA BASAH DI INDUSTRI KECIL MENENGAH (IKM) BELOE KLASIK LAMPUNG*. *15*, 1175-1182. https://doi.org/10.21107/agrointek.v15i4

Afshani, J., Karimi, A., Osati Eraghi, N., & Zarafshan, F. (2022). A Fuzzy DEMATEL-ANP-Based Approach to Prioritize Activities in Enterprise Architecture. *Complexity*, *2022*. https://doi.org/10.1155/2022/2158255

Aini, N. (2023). KAJIAN DAMPAK PROSES PRODUKSI PAKAN TERNAK TERHADAP LINGKUNGAN PADA PT. CHAROEN POKPHAND INDONESIA- PLANT BALARAJA DENGAN MENGGUNAKAN *LIFE CYCLE ASSESSMENT* (LCA). *Naturalis: Jurnal Penelitian Pengelolaan Sumber Daya Alam dan Lingkungan*, *12*(2), 154-162. https://doi.org/10.31186/naturalis.12.2.23049

Arista, N. I. D. (2024). Karakteristik limbah pertanian dan dampaknya: Mengapa pengelolaan ramah lingkungan penting? *Waste Handling and Environmental Monitoring*, *1*(2), 67-76. https://doi.org/10.61511/whem.v1i2.2024.1204

Aulia, N. I., Siswi Indrasti, N., & Ismayana, A. (2023). Penerapan Produksi Bersih Pada Industri Kecil Menengah (IKM) PENERAPAN PRODUKSI BERSIH

PADA INDUSTRI KECIL MENENGAH (IKM) PENGOLAHAN TAHU DI INDONESIA: LITERATUR REVIEW CLEANER PRODUCTION APPLICATIONS OF TOFU SMALL AND MEDIUM INDUSTRIES IN INDONESIA: LITERATURE REVIEW. *Jurnal Teknologi Industri Pertanian*, *33*(1), 10-19. https://doi.org/10.24961/j.tek.ind.pert.2023.33.1.10

Bayu, M. A. U., Rasyid, A., & Uloli, H. (2025). Penerapan *life cycle assessment* pada proses produksi di PT. Royal Coconut Gorontalo. *Jurnal Teknik Industri Terintegrasi*, *8*(1), 466-474. https://doi.org/10.31004/jutin.v8i1.38553

Boenzi, F., Digiesi, S., Facchini, F., & Silvestri, B. (2022). *Life Cycle Assessment* in the Agri-Food *Supply Chain*: Fresh Versus Semi-Finished Based Production Process. *Sustainability (Switzerland)*, *14*(20). https://doi.org/10.3390/su142013010

Brilliantina, A., Adhamatika, A., Kurnia Novita Sari, E., Wijaya, R., Triardianto, D., & Sucipto, A. (2023). *Penerapan Life Cycle Assessment (LCA) Untuk Mengurangi Dampak Lingkungan Pada Proses Produksi* (Vol. 2, Nomor 1).

Chen, Z., Chen, L., Zhou, X., Huang, L., Sandanayake, M., & Yap, P. S. (2024). Recent Technological Advancements in BIM and LCA Integration for *Sustainable* Construction: A Review. Dalam *Sustainability (Switzerland)* (Vol. 16, Nomor 3). Multidisciplinary Digital Publishing Institute (MDPI). https://doi.org/10.3390/su16031340

Chitaka, T. Y., & Goga, T. (2023). The evolution of *life cycle assessment* in the food and beverage industry: A review. Dalam *Cambridge Prisms: Plastics* (Vol. 1). Cambridge University Press. https://doi.org/10.1017/plc.2023.4

Elkington, J. (1997). *Cannibals with forks: The triple bottom line of 21st century business*. Oxford: Capstone Publishing.

Fan, J., Liu, C., Xie, J., Han, L., Zhang, C., Guo, D., Niu, J., Jin, H., & McConkey, B. G. (2022). *Life Cycle Assessment* on Agricultural Production: A Mini Review on Methodology, Application, and Challenges. Dalam *International Journal of Environmental Research and Public Health* (Vol. 19, Nomor 16). MDPI. https://doi.org/10.3390/ijerph19169817

Fathia, A. N., Hadianto, A., & Fitria Dewi Raswatie. (2024). Strategi Mengurangi Emisi Gas Rumah Kaca pada Budidaya Padi di Indonesia. *Indonesian Journal of Agricultural Resource and Environmental Economics*, *3*(1), 49-58. https://doi.org/10.29244/ijaree.v3i1.54757

Febijanto, I., Soraya, D. F., Febriansyah, H., Isharyadi, F., Ayuningtyas, U., Mulyono, A. B., Setiawan, A. A. R., Siregar, K., Sasongko, N. A., & Wiloso, E. I. (2025). *Environmental Impact of Palm Cooking Oil: A Case Study in Sumatra, Indonesia*. https://doi.org/10.21203/rs.3.rs-6637300/v1

Fitri, Y., Anggi, N., Putri, F., Retnawaty, J., Fisika, F., Mipa, D., Kesehatan, U. M., & Riau, I. (2020). *Estimasi Emisi CO2 Dari Sektor Rumah Tangga Di Kota Pekanbaru* (Vol. 11, Nomor 1). http://ejurnal.umri.ac.id/index.php/photon

Ghose, A. (2024). Can LCA be FAIR? Assessing the status quo and opportunities for FAIR data sharing. *International Journal of Life Cycle Assessment*, *29*(4), 733-744. https://doi.org/10.1007/s11367-024-02280-3

Giongo, V., Acosta, A. da S., Dossa, Á. A., Santi, A., Amaral, A. J. do, Caierão, E., Denardin, J. E., Vieira, O. V., Figueirêdo, M. C. B. de, Folegatti, M. I. da S.,

Savioli, J. P. P. das D., Martins, T. B., Silva, B. R., Pires, B. S., & Santana, M. da S. (2025). How can the environmental *impact*s of wheat cultivation and wheat flour production be reduced? A *life cycle assessment* of Brazilian wheat. *Journal of Cleaner Production*, *489*. https://doi.org/10.1016/j.jclepro.2024.144650

Gu, C., Gu, H., Gong, M., Blackadar, J., & Zahabi, N. (2024). Comparison of using two LCA *software* programs to assess the environmental *impact*s of two institutional buildings. *Sustainable Structures*, *4*(1). https://doi.org/10.54113/j.sust.2024.000034

Hasan, Y., Roy, P., & Abbassi, B. (2024). Comparative *Life Cycle Assessment* (LCA) in the Agri-Food Industry, Focusing on Organic and Conventional Coffee. *Sustainability (Switzerland)*, *16*(24). https://doi.org/10.3390/su162410819

Hauschild, M., & Potting, J. (2005). *Spatial differentiation in life cycle impact assessment - The EDIP 2003 methodology*. Copenhagen: Danish Ministry of the Environment.

Hermawan, Marzuki, P. F., Abduh, M., & Driejana, R. (2017). The *Sustainable* Infrastructure through the Construction *Supply Chain* Carbon Footprint Approach. *Procedia Engineering*, *171*, 312-322. https://doi.org/10.1016/j.proeng.2017.01.339

Indah, B. A. R., Bahri, S., Amar, K., Asmal, S., Hanafi, R., Rusman, M., Mardin, F., Facheruddin Bj, M., Muhammad, M. S., Nurul, A., Hadijah, I., Sakti, F., Afifudin, M. T., Sahar, D. P., Artha, P., Lingkungan, D., & Pangkep, H. K.

(2024). *Sosialisasi Penggunaan Software Simapro untuk Analisis Siklus Hidup dalam Konteks Keberlanjutan Lingkungan* (Vol. 7, Nomor 2).

International Organization for Standardization. (2006). *ISO 14040: Environmental management - Life cycle assessment - Principles and framework*. Geneva: ISO.

International Organization for Standardization. (2006). *ISO 14044: Environmental management - Life cycle assessment - Requirements and guidelines*. Geneva: ISO.

IPCC. (2006). *2006 IPCC guidelines for national greenhouse gas inventories*. Intergovernmental Panel on *Climate Change*.

IPCC. (2019). *2019 refinement to the 2006 IPCC guidelines for national greenhouse gas inventories*. Intergovernmental Panel on *Climate Change*.

Kagermann, H., Wahlster, W., & Helbig, J. (2013). *Recommendations for implementing the strategic initiative Industrie 4.0*. German National Academy of Science and Engineering (acatech).

Laurent, A., Weidema, B. P., Bare, J., Liao, X., Maia de Souza, D., Pizzol, M., Sala, S., Schreiber, H., Thonemann, N., & Verones, F. (2020). Methodological review and detailed guidance for the life cycle interpretation phase. *Journal of Industrial Ecology*, *24*(5), 986-1003. https://doi.org/10.1111/jiec.13012

Lei, Q., Lau, S. S. Y., Fan, Y., Fu, I. C. S., Chan, J. T. Y., Tao, Y., Zhang, L., Lai, H., Miao, Y., & Qi, Y. (2023). From Policy to Implementation—An *Analytic Network Process* (ANP)-Based Assessment Tool for Low Carbon Urban and

Neighborhood Planning. *Buildings*, *13*(2). https://doi.org/10.3390/buildings13020484

Marques, C., Güneş, S., Vilela, A., & Gomes, R. (2025). Life-Cycle Assessment in Agri-Food Systems and the Wine Industry—A *Circular Economy* Perspective. Dalam *Foods* (Vol. 14, Nomor 9). Multidisciplinary Digital Publishing Institute (MDPI). https://doi.org/10.3390/foods14091553

Masayu, R., Ansyori Masruri, Romyzar Arya Putra, Mayanita, Ananda, & Cindy. (2020). Analysis Of Environmental *Impact* With The *Life Cycle Assessment* (LCA) Method On Tofu Production. *International Journal of Science, Technology & Management*, *1*(4), 428-435. https://doi.org/10.46729/ijstm.v1i4.73

Masudin, I., Habibah, I. Z., Wardana, R. W., Restuputri, D. P., & Shariff, S. S. R. (2024). Enhancing Supplier Selection for *Sustainable* Raw Materials: A Comprehensive Analysis Using *Analytical Network Process* (ANP) and TOPSIS Methods. *Logistics*, *8*(3). https://doi.org/10.3390/logistics8030074

Mohamed, A. M. O., Economou, I. G., & Bicer, Y. (2024). Navigating ammonia production routes: *Life cycle assessment* insights for a *sustainable* future. Dalam *Current Opinion in Green and Sustainable Chemistry* (Vol. 49). Elsevier B.V. https://doi.org/10.1016/j.cogsc.2024.100947

Mudersbach, M., Jürgens, M., Pohler, M., Spierling, S., Venkatachalam, V., Endres, H. J., & Barner, L. (2025). *Life Cycle Assessment* in a Nutshell—Best Practices and Status Quo for the Plastic Sector. *Macromolecular Rapid Communications*, *46*(8). https://doi.org/10.1002/marc.202300466

Nugroho, M. E., Setyono, P., & Rachmawati, S. (2024). Analisis Emisi Gas Rumah Kaca dengan *Life Cycle Assessment* (LCA) dan Analytical Hierarchy Process (AHP) Industri Tahu. *Jurnal Ilmu Lingkungan*, *22*(6), 1504-1512. https://doi.org/10.14710/jil.22.6.1504-1512

Pambudi, Y. S., Sudaryantiningsih, C., & Geraldita, G. (2021). *ANALISIS KARAKTERISTIK AIR LIMBAH INDUSTRI TAHU DAN ALTERNATIF PROSES PENGOLAHANNYA BERDASARKAN PRINSIP-PRINSIP TEKNOLOGI TEPAT GUNA*. *6*(8). https://doi.org/10.36418/syntax

Pramesti, R. I., Baihaqi, I., & Bramanti, G. W. B. (2020). *Membangun Green Supply Chain Management (GSCM) Scorecard*.

Pramita, A., Kholisoh, N., & Lusia, R. A. (2023). PREDIKSI EMISI GAS RUMAH KACA PADA SEKTOR ENERGI DI INDONESIA MENGGUNAKAN MODEL ARIMA Prediction Of Greenhouse Gas Emissions In The Energy Sector In Indonesia Using The Arima Model. *Jurnal Fraction*, *3*(2), 63-70.

Prasetyani, R., Marimin, Arkeman, Y., & Sugiarto. (2024). RANCANG BANGUN RANTAI PASOK AGROINDUSTRI SORGHUM DI JAWA BARAT: KAJIAN LITERATUR DAN AGENDA RISET. *Jurnal Teknologi Industri Pertanian*, 75-86. https://doi.org/10.24961/j.tek.ind.pert.2024.34.1.75

Pratiwi, I., & Suyanta. (2024). Review Jurnal : Manajemen Rantai Pasok Berkelanjutan Pada Sektor Pangan. *Economic and Bussines Management International Journal*, *6 No. 2*. https://doi.org/10.556442

Qadar, A. S., Budihardjo, A., & Bagus Priyambada, I. (2024). *Jurnal Presipitasi Life Cycle Assessment to Compare the Environmental of Food Waste Management System in Semarang City*. *21*(1), 154-164.

Rahmawati, S. H., & Puspitaningrum, C. (2022). Analisis Pengolahan Air Limbah Industri Tahu dan Efektivitasnya Terhadap Masyarakat dan Lingkungan di Bandar Lampung Analysis of Tofu Industrial Wastewater Treatment and Its Effectiveness on Society and the Environment in Bandar Lampung. *Open Science and Technology*, *02*(01), 2776-169. https://opscitech.com/journal

Rindiani, F., Sudarti, & Yushardi. (2023). Pengolahan Limbah Tahu Menjadi Biogas Sebagai Inovasi Guna Mengatasi Krisis Energi. Dalam *Januari-Desember-Desember* (Vol. 02, Nomor 04). http://jurnal.minartis.com/index.php/jpst/

Rizky, D., Abdurrahman, A., Putu, B., Kurniawan, Y., Mahanani, R. S., Adha, I., Pongoh, A., & Lestari, D. (2025). *Revealing the True Cost of Food: A Life Cycle Assessment for Sustainability in the Agri-Food Sector*. https://doi.org/10.37148/jaiftech.v1i2.15

Saaty, T. L. (1996). *Decision making with dependence and feedback: The analytic network process*. Pittsburgh: RWS Publications.

Saaty, T. L. (2001). *Decision making for leaders: The analytic hierarchy and analytic network processes*. Pittsburgh: RWS Publications.

Saaty, T. L. (2005). *Theory and applications of the analytic network process*. Pittsburgh: RWS Publications.

Sasmita, A., Isnaini, I., & Zustika, R. (2021). Estimasi Gas Rumah Kaca dari Sektor Pertanian, Perkebunan, dan Peternakan di Kabupaten Kampar, Provinsi Riau.

Jurnal Sumberdaya Alam dan Lingkungan, *8*(1), 42-53. https://doi.org/10.21776/ub.jsal.2021.008.01.5

Seuring, S., & Müller, M. (2008). From a literature review to a conceptual framework for *sustainable supply chain management*. *Journal of Cleaner Production*, 16(15), 1699-1710.

Simanjutak, L. F., Boru Hasugian, A., & Lamsarina Br Hutagalung, S. (2025). *MANAJEMEN RANTAI PASOK BERKELANJUTAN DALAM INDUSTRI MAKANAN: STUDI LITERATUR TENTANG PRAKTIK DAN TANTANGAN*. *2*(2), 186-197. https://doi.org/10.61722/jrme.v2i2.4227

Sinatrya, A., Retno Wulan, I., Claudea Tanjung, J., Fahima, S., & Lestari, P. (2024). Potensi Ancaman dan Upaya Mitigasi Emisi Gas Rumah Kaca di Sektor Pertanian Indonesia: Tinjauan Sistematis atas Literatur. Dalam *Jurnal Teknologi Lingkungan Lahan Basah* (Vol. 12, Nomor 1).

Sirait, M. (2020). Studi *Life Cycle Assessment* Produksi Gula Tebu : Studi Kasus di Jawa Timur. *Rekayasa Journal of Science and Technology*, *13*(2), 197-204. https://doi.org/10.21107/rekayasa.v13i2.5915

Sonia, R., & Purwaningsih, R. (2024). *Desain Peningkatan Eco-Efficiency Produk Jenang Pada UMKM Jenang Kudus Rizqina dengan Menggunakan Pendekatan Life Cycle Assessment (LCA)*.

Suhariyanto, T. T., Asih, H. M., Ichwanuddin, A., & Rasyid, M. I. (2023). Penerapan Metode *Life Cycle Assessment* (LCA) Pada Proses Produksi Downlight Aluminium (Studi Kasus Di UPT Logam Yogyakarta). Dalam *JITMI* (Vol. 6, Nomor 1).

Sulistyono. (2012). *PEMANASAN GLOBAL (GLOBAL WARMING) DAN HUBUNGANNYA DENGAN PENGGUNAAN BAHAN BAKAR FOSIL*.

Syahrani, A. (2021). *ANALISA KINERJA MESIN BENSIN BERDASARKAN HASIL UJI EMISI*.

Widiastuti, T., Robani, A., Sukmaningrum, P. S., Mawardi, I., Ningsih, S., Herianingrum, S., & Al-Mustofa, M. U. (2022). Integrating *sustainable* Islamic social finance: An *Analytical Network Process* using the Benefit Opportunity Cost Risk (ANP BOCR) framework: The case of Indonesia. *PLoS ONE*, *17*(5 May). https://doi.org/10.1371/journal.pone.0269039

Wróbel-Jędrzejewska, M., Włodarczyk, E., & Przy*by*sz, Ł. (2024). Carbon Footprint of Flour Production in Poland. *Sustainability (Switzerland)* , *16*(11).

Xu, J., Li, L., & Ren, M. (2022). A Hybrid ANP Method for Evaluation of Government Data *Sustainability*. *Sustainability (Switzerland)*, *14*(2). https://doi.org/10.3390/su14020884

Yusriana, Jaya, R., & Sembiring, M. T. (2023). EKONOMI SIRKULAR PADA MANAJEMEN RANTAI PASOK AGROINDUSTRI: KONSEPTUAL DAN RANCANGAN IMPLEMENTASI. *Jurnal Teknologi Industri Pertanian*, 196-205. https://doi.org/10.24961/j.tek.ind.pert.2023.33.2.196

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*, 343-355. https://doi.org/10.24961/j.tek.ind.pert.2021.31.3.343