

DAFTAR PUSTAKA

- Ali, A., Ahmadini, H., Muhammad, U., Akbar, A., & Ali, I. (2021). Multi-objective optimization modelling of sustainable green supply chain in inventory and production management. *Alexandria Engineering Journal*, 60(6), 5129–5146. <https://doi.org/10.1016/j.aej.2021.03.075>
- Ali, A., Junaid, B., Muhammad, R., Shamsi, I., & Shamim, K. (2025). *Triple Bottom-Line : A Critical Review and Need for Strategic Renewal*. 27(1), 1–28.
- Alzubi, E., Kassem, A., Melkonyan, A., & Noche, B. (2024). Enhancing economic-social sustainability through a closed-loop citrus supply chain: A life cycle cost analysis. *Resources, Conservation and Recycling Advances*, 21(December 2023), 200199. <https://doi.org/10.1016/j.rcradv.2023.200199>
- Amin, A., & Baldacci, R. (2025). *A mixed-method approach to develop an eco-robust supply chain management framework for Bangladeshi RMG industries*. 9(February).
- Andika, A., Perdana, T., Chaerani, D., & Sarwo, D. (2025). Transitioning towards zero waste in the agri-food supply chain : a review of sustainable circular agri-food supply chain. *Sustainable Futures*, 10(September 2024), 100917. <https://doi.org/10.1016/j.sftr.2025.100917>
- Asante, R., Faibil, D., Agyemang, M., & Ahmed, S. (2022). Life cycle stage practices and strategies for circular economy : assessment in construction and demolition industry of an emerging economy. *Environmental Science and Pollution Research*, 82110–82121. <https://doi.org/10.1007/s11356-022-21470-w>
- Badan Perencanaan pembangunan daerah Kabupaten Mojokerto. (2024). *Laporan Akhir Penyusunan Dokumen Kajian Produk Unggulan Daerah (PUD) Kabupaten Mojokerto*.
- Badan Pusat Statistik. (2025). *Produksi Tanaman Buah–Buahan dan Sayuran Tahunan Menurut Jenis Tanaman di Provinsi Jawa Timur, 2024*. Badan Pusat

Statistik. <https://jatim.bps.go.id/id/statistics-table/3/WXpSVU5uUTBOSEl5WVhGQmVESTVSVnBSVlhWeVVUMDkjMyMzNTAw/produksi-tanaman-buah-buahan-dan-sayuran-tahunan-menurut-jenis-tanaman-di-provinsi-jawa-timur.html?year=2024>

Badan Pusat Statistik Kabupaten Mojokerto. (2024). *Produksi Tanaman Buah-buahan dan Sayuran Tahunan Menurut Kecamatan dan Jenis Tanaman di Kabupaten Mojokerto, 2024*. <https://mojokertokab.bps.go.id/id>

Bahrampour, P., Najaf, S. E., Hosseinzadeh, F., & Edalatpanah, A. (2023). Designing a Scenario-Based Fuzzy Model for Sustainable Closed- Loop Supply Chain Network considering Statistical Reliability : A New Hybrid Metaheuristic Algorithm. *Hidawi*, 2023. <https://doi.org/10.1155/2023/1337928>

Bilgen, B. (2025). *Optimization of an integrated harvest , and process planning model in the agri-food industry*. 13(October 2023), 331–350. <https://doi.org/10.1016/j.jer.2023.09.036>

Bouchery, Y., Corbett, C. J., & Fransoo, J. C. (2017). *Sustainable Supply Chains* (T. Tan (ed.)). Springer Series in Supply Chain Management Yann.

Cabot, M. I., Lado, J., Clemente, G., & Sanjuán, N. (2022a). Towards harmonised and regionalised life cycle assessment of fruits : A review on citrus fruit. *Sustainable Production and Consumption*, 33, 567–585. <https://doi.org/10.1016/j.spc.2022.07.024>

Cabot, M. I., Lado, J., Clemente, G., & Sanjuán, N. (2022b). *Towards harmonised and regionalised life cycle assessment of fruits : A review on citrus fruit*. 33, 567–585. <https://doi.org/10.1016/j.spc.2022.07.024>

Chan, A., Cruz, D., & Sy, C. (2025). A multi-objective optimization approach for the design of circular supply chains of perishable agricultural products. *Cleaner Waste Systems*, 12(July), 100347. <https://doi.org/10.1016/j.clwas.2025.100347>

Chikonkolo, M., Parmar, A., Roman, F., Emmambux, N. M., Ou, Y., & Hensel, O.

- (2025). *Life cycle sustainability assessment of staple food processing : A double and dynamic materiality approach* ☆. 56(April), 343–363.
- Chopard, B., & Tomassini, M. (2018). *An Introduction to Metaheuristics for Optimization* (G. Rozenberg (ed.)). Springer Nature Switzerland. <https://doi.org/https://doi.org/10.1007/978-3-319-93073-2>
- Chopra, S., & Meindl, P. (2013). *Supply Chain Management Strategy, Planning, And Operation* (Fifth Edit). Pearson.
- Christou, I. T. (2012). *Quantitative Methods in Supply Chain Management*. Springer. <https://doi.org/10.1007/978-0-85729-766-2>
- Creswell, J. W. (2009). *Research Design Qualitative, Quantitative, and Mixed Methods Approaches—3rd ed. p. cm. Includes* (Third Edit). SAGE Publications.
- David, J., Diaz, R., & Amin, S. H. (2025). *A multi-objective optimization approach for sustainable management of computers E-waste in a closed-loop supply chain network*. 506(April).
- Davis, T. A., & Sigmon, K. (2005). *MATLAB ® Primer* (Seventh Ed). CHAPMAN & HALL/CRC A.
- Direktorat Statistik Distribusi. (2024). *Distribusi Perdagangan Komoditas Jeruk indonesia*.
- Enyoghasi, C., & Badurdeen, F. (2021). *Resources , Conservation & Recycling Industry 4 . 0 for sustainable manufacturing : Opportunities at the product , process , and system levels*. 166(November 2020).
- Ferreira, S., Cassia, R. De, Cardoso, V., Maria, Í., Borges, P., Costal, A., Sodré, E., Ormonde, I., & Ramos, C. (2020). Post-harvest losses of fruits and vegetables in supply centers in Salvador , Brazil : Analysis of determinants , volumes and reduction strategies. *Waste Management*, 101, 161–170. <https://doi.org/10.1016/j.wasman.2019.10.007>
- Flapper, S. D. P., Nunen, J. A. E. E. van, & Wassenhove, L. N. Van. (2005).

Managing Closed-Loop Supply Chains. Springer Berlin Heidelberg.

- Fu, R., Patrick, Q., Ke, K., & Huang, Z. (2021). Closed-loop supply chain network with interaction of forward and reverse logistics. *Sustainable Production and Consumption*, 27, 737–752. <https://doi.org/10.1016/j.spc.2021.01.037>
- Gates, T. D., Hannouf, M., Gebremedhin, D., Beyene, T. D., Assefa, G., & Gates, I. D. (2025). Energy poverty from a life cycle sustainability assessment perspective. *Cleaner Environmental Systems*, 18(February), 100305. <https://doi.org/10.1016/j.cesys.2025.100305>
- Gebisa, D. A. (2019). Articles Review on Forward and Reverse Supply Chain / Closed Loop Supply Chain Practices. *Indian Journal of Finance and Banking*, 3(2), 14–26.
- Ghanad, A. (2023). An Overview of Quantitative Research Methods. *International Journal Of Multidisciplinary Research And Analysis*, 06(08), 3794–3803. <https://doi.org/10.47191/ijmra/v6-i8-52>
- Gholipour, A., Sadegheih, A., & Mostafaeipour, A. (2023). Designing an optimal multi - objective model for a sustainable closed - loop supply chain : a case study of pomegranate in Iran. In *Environment, Development and Sustainability* (Issue 0123456789). Springer Netherlands. <https://doi.org/10.1007/s10668-022-02868-5>
- Gholizadeh, H., Jahani, H., Abareschi, A., & Goh, M. (2021). Computers & Industrial Engineering Sustainable closed-loop supply chain for dairy industry with robust and heuristic optimization. *Computers & Industrial Engineering*, 157(September 2020), 107324. <https://doi.org/10.1016/j.cie.2021.107324>
- Ghosh, S. K. (2020). *Circular Economy : Global Perspective*.
- Hashemzahi, P., Mohammadi, M., & Atabaki, M. S. (2024). Multi-objective Design of Sustainable Closed-loop Supply Chain Considering Social Benefits : Metaheuristic Optimization Approaches. *Journal of Quality Engineering and Production Optimization*, 9(1). <https://doi.org/10.22070/jqepo.2024.17510.1255>

- Hosseini Shekarabi, S. A., Kiani Mavi, R., & Macau, F. R. (2025). An extended robust optimisation approach for sustainable and resilient supply chain network design: A case of perishable products. *Engineering Applications of Artificial Intelligence*, 152(April), 110846. <https://doi.org/10.1016/j.engappai.2025.110846>
- Kementerian Pertanian, D. J. H. (2024). *Angka Tetap Hortikultura*.
- Kementerian PPN/Bappenas. (2025). *EKONOMI SIRKULAR INDONESIA 2025 – 2045*.
- Khazaeli, S., Kalvandi, R., & Sahebi, H. (2024). *A multi-level multi-product supply chain network design of vegetables products considering costs of quality : A case study*. 1–25. <https://doi.org/10.1371/journal.pone.0303054>
- Khorshidvand, B., Soleimani, H., Sibdari, S., Mehdi, M., & Esfahani, S. (2021). Journal of Retailing and Consumer Services Revenue management in a multi-level multi-channel supply chain considering pricing , greening , and advertising decisions. *Journal of Retailing and Consumer Services*, 59(November 2020), 102425. <https://doi.org/10.1016/j.jretconser.2020.102425>
- Kumar, H., Bhardwaj, K., Sharma, R., & Nepovimova, E. (2020). Fruit and Vegetable Peels : Utilization of High Value Horticultural Waste in Novel Industrial Applications. *Molecules*, 1–21. <https://doi.org/doi:10.3390/molecules25122812>
- Kumar, P., Agrawal, R., Samadhiya, A., & Kumar, A. (2023). Engineering Applications of Artificial Intelligence Metaheuristics in circular supply chain intelligent systems : A review of applications journey and forging a path to the future. *Engineering Applications of Artificial Intelligence*, 126(PD), 107102. <https://doi.org/10.1016/j.engappai.2023.107102>
- Le, T. K. T., Nguyen, H. P., & Nguyen, N. Q. (2025). Assessing Vietnam ’ s Sustainable Agritourism by Integrated Multi-Criteria Decision-Making Approach. *Journal of Open Innovation: Technology, Market, and Complexity*, 11(4), 100652. <https://doi.org/10.1016/j.joitmc.2025.100652>

- Lebreton, B. (2007). *Strategic Closed-Loop Supply Chain* (G. Fandel & W. Trockel (eds.)). Springer.
- Li, Y. (2025). Design of sustainable supply chain networks for industrial production with the consideration of carbon emission reduction. *Sustainable Operations and Computers*, 6(December 2024), 229–245. <https://doi.org/10.1016/j.susoc.2025.07.001>
- Liao, Y., Kaviyani-Charati, M., Hajiaghaei-Keshteli, M., & Diabat, A. (2020). Designing a closed-loop supply chain network for citrus fruits crates considering environmental and economic issues. *Journal of Manufacturing Systems*, 55(October 2019), 199–220. <https://doi.org/10.1016/j.jmsy.2020.02.001>
- Liu, A., Zhang, Y., Luo, S., & Miao, J. (2020). Dual-Channel Global Closed-Loop Supply Chain Network Optimization Based on Random Demand and Recovery Rate. *Environmental Research and Public Health Article*. <https://doi.org/doi:10.3390/ijerph17238768>
- Liu, A., Zhu, Q., Xu, L., Lu, Q., & Fan, Y. (2021). Sustainable supply chain management for perishable products in emerging markets : An integrated location-inventory-routing model. *Transportation Research Part E*, 150(April), 102319. <https://doi.org/10.1016/j.tre.2021.102319>
- Luiza, M., & Guilherme, M. B. B. G. (2022). Circular Economy in the Food Chain : Production , Processing and Waste Management. *Circular Economy and Sustainability*, 0123456789. <https://doi.org/10.1007/s43615-022-00243-0>
- Luo, R., Zhang, J., Slegers, P. M., Zhuang, M., Zhang, Z., Zhang, X., Li, X., & Claassen, G. D. H. (2025). Environmental advantages of green-labelled navel oranges in China: A supply chain perspective. *Resources, Environment and Sustainability*, 22(September), 100273. <https://doi.org/10.1016/j.resenv.2025.100273>
- Ma, W., Bahadur, D., Sonobe, T., & Gong, B. (2024). Linking farmers to markets : Barriers , solutions , and policy options. *Economic Analysis and Policy*, 82(April), 1102–1112. <https://doi.org/10.1016/j.eap.2024.05.005>

- Mirzaei, M. G., Goodarzian, F., Maddah, S., Gabralla, L. A., & Abraham, A. (2022). Investigating a Dual-Channel Network in a Sustainable Closed-Loop Supply Chain Considering Energy Sources and Consumption Tax. *Sensors*. <https://doi.org/https://doi.org/10.3390/s22093547>
- Mogale, D. G., De, A., Ghadge, A., & Aktas, E. (2022). Computers & Industrial Engineering Multi-objective modelling of sustainable closed-loop supply chain network with price-sensitive demand and consumer ' s incentives. *Computers & Industrial Engineering*, 168(March), 108105. <https://doi.org/10.1016/j.cie.2022.108105>
- Moheb-alizadeh, H., Handfield, R., & Warsing, D. (2021). Efficient and Sustainable Closed-Loop Supply Chain Network Design : A Two-Stage Stochastic Formulation With a Hybrid Solution Methodology. *Journal of Cleaner Production*, 308(May), 127323. <https://doi.org/10.1016/j.jclepro.2021.127323>
- Momenitabar, M., Dehdari, Z., & Mohammad, E. (2022). Designing a Sustainable Closed - Loop Supply Chain Network Considering Lateral Resupply and Backup Suppliers Using Fuzzy Inference System. In *Environment, Development and Sustainability* (Issue 0123456789). Springer Netherlands. <https://doi.org/10.1007/s10668-022-02332-4>
- Mosallanezhad, B., Ali, M., & Hashemi-amiri, O. (2023). Metaheuristic optimizers to solve multi-echelon sustainable fresh seafood supply chain network design problem : A case of shrimp products. *Alexandria Engineering Journal*, 68, 491–515. <https://doi.org/10.1016/j.aej.2023.01.022>
- Mugoni, E., Kanyepe, J., & Tukuta, M. (2024). Sustainable Technology and Entrepreneurship Sustainable Supply Chain Management Practices (SSCMPS) and environmental performance : A systematic review. *Sustainable Technology and Entrepreneurship*, 3(1), 100050. <https://doi.org/10.1016/j.stae.2023.100050>
- Nagar, S. (2017). *Introduction to MATLAB for Engineers and Scientists*. Apress.
- Nasr, A. K., Tavana, M., Alavi, B., & Mina, H. (2021). A novel fuzzy multi-

- objective circular supplier selection and order allocation model for sustainable closed-loop supply chains. *Journal of Cleaner Production*, 287, 124994. <https://doi.org/10.1016/j.jclepro.2020.124994>
- Peraturan Bupati Nomor 23 Tahun 2024 Tentang Rencana Pembangunan Kawasan Perdesaan Agrowisata Pertanian Terpadu Tahun 2024-2028 (2024).
- Peraturan Daerah Kabupaten Mojokerto Nomor 6 Tahun 2025 Tentang Rencana Pembangunan Jangka Menengah Daerah Kabupaten Mojokerto Tahun 2025–2029 (2025).
- Puspitorini, P. S., & Agustina, S. (2025). *Menilai Tantangan Agricultural Supply Chain Dengan Pendekatan Multi-Criteria Decision Making (MCDM): Integrasi metode Fuzzy DEMATEL-BWM*.
- Puspitorini, P. S., & Muslimin, M. (2025). *Pendampingan D ' Chan Chair sebagai Produk Mozaik Berestetika Tinggi dari Inovasi Kulit Durian untuk Meningkatkan Nilai Ekonomi dan Mendukung Zero Waste*. 5(1), 255–262.
- Rahbari, M., Khamseh, A. A., & Mohammadi, M. (2023). Robust optimization and strategic analysis for agri-food supply chain under pandemic crisis : Case study from an emerging economy. *Expert Systems With Applications*, 225(April 2022), 120081. <https://doi.org/10.1016/j.eswa.2023.120081>
- Raja, K. S., Maliha, A., Paul, S., Shakur, M. S., & Bari, A. B. M. M. (2025). Unraveling the obstacles to transform agro-wastes into value-added bioproducts: Implications for sustainability. *Sustainable Operations and Computers*, 6(November 2024), 171–188. <https://doi.org/10.1016/j.susoc.2025.05.002>
- Roudbari, E. S., Ghomi, S. M. T. F., & Eicker, U. (2023). Designing a Multi - Objective Closed - Loop Supply Chain : A Two - Stage Stochastic Programming , Method Applied to the Garment Industry In Montréal , Canada. In *Environment, Development and Sustainability* (Issue 0123456789). Springer Netherlands. <https://doi.org/10.1007/s10668-023-02953-3>
- Salehi-amiri, A., Zahedi, A., Gholian-jouybari, F., Zulema, E., Calvo, R., &

- Hajiaghaei-keshteli, M. (2022). Designing a Closed-loop Supply Chain Network Considering Social Factors ; A Case Study on Avocado Industry. *Applied Mathematical Modelling*, 101, 600–631. <https://doi.org/10.1016/j.apm.2021.08.035>
- Shu, L., Liang, X., Yao, J., & Luo, P. (2023). *Price Optimization of Closed-loop Supply Chain With Uncertain Demand Under Multi-channel Cross Influence*. 24, 1–17. <https://doi.org/10.1177/21582440231218065>
- Siahaan, M. (2023). *Tropical fruit industry in Indonesia- statistics & facts*. Statista. <https://www.statista.com/topics/9156/tropical-fruit-industry-in-indonesia/#topicOverview>
- Soleimani, H., Mohammadi, M., Fadaki, M., & Al-e-hashem, S. M. J. M. (2021). Carbon-Efficient Closed-Loop Supply Chain Network : an Integrated Modeling Approach Under Uncertainty. *Environmental Science and Pollution Research*. <https://doi.org/https://doi.org/10.1007/s11356-021-15100-0>
- Soon, A., Heidari, A., Khalilzadeh, M., & Antucheviciene, J. (2022). Multi-Objective Sustainable Closed-Loop Supply Chain Network Design Considering Multiple Products with Different Quality Levels. *Systems*, 1–29. <https://doi.org/https://doi.org/10.3390/systems10040094>
- Statista Research Department. (2025). *Production volume of fruit worldwide in 2023, by selected variety*. Statista. <https://www.statista.com/statistics/264001/worldwide-production-of-fruit-by-variety/>
- Taeabi, P., Modiri, M., Mohammad, S., Khatami, A., & Mohtashami, A. (2024). Designing a sustainable-resilient supply chain network with an emphasis on financing and investment decisions using the NSGA-II algorithm. *Int. J. Nonlinear Anal. Appl*, 15(July 2023), 93–112. <https://doi.org/http://dx.doi.org/10.22075/ijnaa.2023.31030.4547> Designing
- Taherifar, M., Hasani, N., Zokaee, M., & Aghsami, A. (2023). A scenario - based sustainable dual - channel closed - loop supply chain design with pickup and delivery considering social conditions in a natural disaster under uncertainty :

- a real - life case study. In *Environment, Development and Sustainability* (Issue 0123456789). Springer Netherlands. <https://doi.org/10.1007/s10668-023-03421-8>
- Tavana, M., Kian, H., Khalili, A., Govindan, K., & Mina, H. (2022). A Comprehensive Framework For Sustainable Closed-Loop Supply Chain Network Design. *Journal of Cleaner Production*, 332(November 2021), 129777. <https://doi.org/10.1016/j.jclepro.2021.129777>
- Tiseo, I. (2025). *Annual carbon dioxide (CO₂) emissions worldwide from 1940 to 2024*. Statista. <https://www.statista.com/statistics/276629/global-co2-emissions/>
- Tombido, L., & Baihaqi, I. (2021). Dual and Multi-channel closed-loop supply chains : A state of the art review. *Journal of Remanufacturing*. <https://doi.org/https://doi.org/10.1007/s13243-021-00103-4>
- Trang Le, T. K., Nguyen, H.-P., & Nguyen, Q. N. (2025). Assessing Vietnam's sustainable agritourism by integrated multi-criteria decision-making approach. *Journal of Open Innovation: Technology, Market, and Complexity*, 11(4), 100652. <https://doi.org/10.1016/j.joitmc.2025.100652>
- Viana, C. M., Freire, D., Abrantes, P., Rocha, J., & Pereira, P. (2022). *Science of the Total Environment Agricultural land systems importance for supporting food security and sustainable development goals : A systematic review*. 806. <https://doi.org/10.1016/j.scitotenv.2021.150718>
- Wang, X., Chen, G., & Xu, S. (2022). Cleaner Logistics and Supply Chain Bi-objective green supply chain network design under disruption risk through an extended NSGA-II algorithm. *Cleaner Logistics and Supply Chain*, 3(October 2021), 100025. <https://doi.org/10.1016/j.clscn.2021.100025>
- Wube, W., Berhan, E., & Tesfaye, G. (2025). Decision support systems for a resilient and sustainable *Closed Loop* supply chain under risk: A systematic review and future research directions. *Cleaner Logistics and Supply Chain*, 15(February), 100217. <https://doi.org/10.1016/j.clscn.2025.100217>

- Xu, W., Luis, M., & Yuce, B. (2023). A Hybrid Method for The Closed-loop Supply Chain to Minimize Total Logistics Costs. *International Journal of Technology*, 14(September), 1449–1460. <https://doi.org/10.14716/ijtech.v14i7.6710>
- Yamchi, H. R., Jabarzadeh, Y., Ghaffarinasab, N., Kumar, V., & Garza-Reyes, J. A. (2020). A Multi-Objective Linear Optimization Model for Designing Sustainable Closed-Loop Agricultural Supply Chain. *Proceedings of the International Conference on Industrial Engineering and Operations Management*, 364–375.
- Zhai, T., Liu, J., & Wang, D. (2023). Optimization path of agricultural products marketing channel based on innovative industrial chain. *Economic Change and Restructuring*, 0123456789. <https://doi.org/10.1007/s10644-023-09495-8>
- Zhang, G., Chen, C. N., Shokouhifar, M., & Goli, A. (2025). Mathematical modeling and dragonfly algorithm for optimizing sustainable agritourism supply chains. *Journal of Engineering Research (Kuwait)*, 13(2), 751–762. <https://doi.org/10.1016/j.jer.2024.01.008>
- Zhang, Q., Li, H., Pei, H., & Liu, N. (2025). Construction of a new robust dual-channel supply chain network with forward logistics and reverse logistics. *Computers and Industrial Engineering*, 204(February), 111075. <https://doi.org/10.1016/j.cie.2025.111075>
- Zou, Y., Wu, J., Meng, X., Wang, X., & Manzardo, A. (2025). Digital twin integration for dynamic quality loss control in fruit supply chains. *Journal of Food Engineering*, 397(March), 112577. <https://doi.org/10.1016/j.jfoodeng.2025.112577>
- Zúniga-gonzález, C. A., José, C., Rodríguez, V., & Mendoza-ortega, G. P. (2025). *Multi-objective optimization for the sustainable planning of yam cultivation and distribution in the Colombian Caribbean*. October, 1–16. <https://doi.org/10.3389/frsus.2025.1653365>