DAFTAR PUSTAKA

Adebayo, I. T., S. O. Ajibola, A. A. Ahmad, P. Cartujo, I. T. Muritala, I. O. Elegbede, P. Cabral, & V. Martos. (2025). Understanding the application of digital technologies in aquaculture supply chains through a systematic literature review. Aquaculture International, 33(6), 397.https://doi.org/10.1007/s10499-025-02069-7

Arridha, R. (2018).Design and Implementation of IoT–Big Data Analytic for Smart Environment Monitoring System. Thesis Report. Open Science Framework.

Awaluddin, R., L. M. Baga, & O. Suparno. (2018). Business model canvas innovation and blue ocean strategy for eFishery. In Proceedings of the 1st International Conference on Islamic Economics, Business, and Philanthropy (ICIEBP 2017) (pp. 680–686). https://doi.org/10.5220/0007087906800686

Badiola Amillategui, M. (2017). Land Based On-Growing of Atlantic Cod (Gadus morhua) and Salmon (Salmo salar) Using Recirculation Aquaculture Systems in The Basque Country: Contributions to Scientific Understanding of Economic Feasibility And Environmental Sustainability. Dissertation/Report.

Bappenas, K., & Kementerian Kelautan dan Perikanan. (2014). Kajian Strategi Pengelolaan Perikanan Berkelanjutan. Kementerian PPN/Bappenas Direktorat Kelautan dan Perikanan, 120.

Benarda, B., A. Suharyanto, & R. Mastuti. (2019). Business model of fish cultivator group in Jampang Village with a business model canvas approach. Proceedings of Community Development, 2, 386–397.

Benestan, L., P.-A. Gagnaire, A. Teixeira, C. Gregori, E. Desmarais, et al. (2025). Using a comprehensive donor and host dataset to decipher the heritability and genetic architecture of pearl traits in the black-lipped oyster (*Pinctada margaritifera*). Aquaculture, 742837.

Biazi-Neto, V., & C. Marques. (2023). Industry 4.0-based smart systems in aquaculture: A comprehensive review. Aquacultural Engineering, 103, 102360. https://doi.org/10.1016/j.aquaeng.2023.102360

Boyd, C. E., A. A. McNevin, & R. P. Davis. (2018). Production methods and resource use at *Litopenaeus vannamei* and *Penaeus monodon* farms in India compared with previous findings from Thailand and Vietnam. Journal of the World Aquaculture Society, 49(3), 551–569.

Bush, S., & P. Oosterveer. (2019). Governing Sustainable Seafood. Routledge.

Campbell, S., M. Greenwood, S. Prior, T. Shearer, K. Walkem, S. Young, D. Bywaters, & K. Walker. (2020). Purposive sampling: Complex or simple? research case examples. Journal of Research in Nursing, 25(8), 652–661.

Joint Research Centre, European Commission. (2008). Handbook on Constructing Composite Indicators: Methodology and User Guide. OECD Publishing.

Chandran, P. J. I., M. Suresh, R. Kumar, & M. Balakrishnan. (2025). Smart technologies in aquaculture: An integrated IoT, AI, and blockchain framework for sustainable growth. Aquacultural Engineering, 111, 102584.

Chen, H., R. H. L. Chiang, & V. C. Storey. (2012). Business intelligence and analytics: From big data to big impact. MIS Quarterly, 36(4), 1165–1188.

Chiu, M.-C., C.-H. Tsai, Y.-C. Lin, & T.-T. Lin. (2022). Development of smart aquaculture farm management system using IoT and AI-based surrogate models. Journal of Agriculture and Food Research, 9, 100357.

Costa-Pierce, B. A. (2010). Sustainable ecological aquaculture systems: The need for a new social contract for aquaculture development. Marine Technology Society Journal, 44(3), 88–112.

Davis, M. C., R. Challenger, D. N. W. Jayewardene, & C. W. Clegg. (2014). Advancing socio-technical systems thinking: A call for bravery. Applied Ergonomics, 45(2), 171–180.

Davis, R. P., & C. E. Boyd. (2021). Current research in environmental sustainability. Current Research in Environmental Sustainability, 3, 100069.

Diedrich, A., E. Jimenez, K. L. L. Oleson, & J. E. Cinner. (2019). Socio-economic drivers of adoption of small-scale aquaculture in Indonesia. Sustainability, 11(6), 1543.

Edwards, P. (1998). A systems approach for the promotion of integrated aquaculture. Aquaculture Economics & Management, 2(1), 1–12.

Eisenhardt, K. M., & M. E. Graebner. (2007). Theory building from cases: Opportunities and challenges. Academy of Management Journal, 50(1), 25–32.

Eijnatten, F. M. van. (2013). Developments in socio-technical systems design (STSD). In A Handbook Of Work And Organizational Psychology (pp. 61–88). Psychology Press.

Guo, J., J. Lin, & X. Luo. (2025). Enhancing organizational resilience through big data analytics capability: The mediating role of strategic flexibility. Information Technology & People, 38(1), 1–39.

Hambrey, J. (2017). The 2030 Agenda and the Sustainable Development Goals: The Challenge for Aquaculture Development and Management. FAO Fisheries and Aquaculture Circular (C1141).

Hungevu, R., S. Kumar, & P. Singh. (2025). The impact of low-cost technological innovations on sustainable fisheries for economic development in developing countries. World Journal of Advanced Research and Reviews, 25(2), 1170–1184.

Izharuddin, M. (2025). Institutionalized digital sustainability in aquaculture: End-to-end digitally enabled innovation. International Journal of Innovation Science.

Kanwal, S., M. A. Khan, A. Rehman, & I. Ahmad. (2024). An optimal Internet of Things-driven intelligent decision-making system for real-time fishpond water quality monitoring and species survival. Sensors, 24(23), 7842.

Kruk, S. R. L., S. Kloppenburg, & F. Lovita. (2025). Digital platforms governing practices: How data objects reconfigure Indonesian fish farming. Journal of Rural Studies, 119, 103764.

Kruk, S. R. L., H. M. Toonen, & S. R. Bush. (2024). Digital sustainability assurance governing global value chains: The case of aquaculture. Regulation & Governance, 18(4), 1153–1170.

Lee, J., B. Bagheri, & H.-A. Kao. (2015). A cyber-physical systems architecture for Industry 4.0-based manufacturing systems. Manufacturing Letters, 3, 18–23.

Li, P., Y. Zhang, H. Liu, & J. Chen. (2025). Reviews on the development of digital intelligent fisheries technology in aquaculture. Aquaculture International, 33(3), 191.

Liu, Q., Z. Wang, & Y. Chen. (2008). Design of a smart pH value transducer for measuring aquaculture water quality. Transactions of the Chinese Society of Agricultural Engineering, 24, 138–141.

Liu, T., H. Zhang, X. Li, & Y. Wang. (2022). Optimization of the intelligent sensing model for environmental information in aquaculture waters based on the 5G smart sensor network. Journal of Sensors, 2022, 6409046.

Mandal, A., & A. R. Ghosh. (2024). Role of artificial intelligence (AI) in fish growth and health status monitoring: A review on sustainable aquaculture. Aquaculture International, 32(3), 2791–2820.

Marlina, M., A. Rahman, & D. A. Putri. (2025). Analisis profitabilitas dan efisiensi operasional pada industri perikanan skala kecil di Indonesia. Jurnal Serambi Engineering, 10(3).

Mustafa, S., M. M. Rahman, & N. Ahmed. (2021). Technological applications and adaptations in aquaculture for progress towards sustainable development and seafood security. In IOP Conference Series: Earth and Environmental Science (Vol. 860, 012041). IOP Publishing.

Ottinger, M., D. Slagstad, & B. Belton. (2026). Pond aquaculture dynamics in Asia: Satellite time series for analyzing the spatio-temporal development of coastal aquaculture. Aquaculture, 610, 742940.

Piplani, D., V. Chavan, & S. Sharma. (2015). Digital platform for data driven aquaculture farm management. In Proceedings of the 7th Indian Conference on Human–Computer Interaction (pp. 95–101).

Qin, Y., S. Wang, & N. Gao. (2022). Coordination mechanism of e-closed-loop supply chain under social preference. Sustainability, 14(20), 13654.

Raju, K. R. S. R., & G. H. K. Varma. (2017). Knowledge based real time monitoring system for aquaculture using IoT. In 2017 IEEE 7th International Advance Computing Conference (IACC) (pp. 318–321). IEEE.

Rastegari, H., A. Banihashemi, & M. Ahmadi. (2023). Internet of Things in aquaculture: A review of the challenges and potential solutions based on current and future trends. Smart Agricultural Technology, 4, 100187.

Rowan, N. J., C. M. Galanakis, & V. Prieto-Sandoval. (2022). Digital transformation of peatland eco-innovations (Paludiculture): Enabling a paradigm shift towards the real-time sustainable production of green-friendly products and services. Science of the Total Environment, 838, 156328.

Rowley, J. (2007). The wisdom hierarchy: Representations of the DIKW hierarchy. Journal of Information Science, 33(2), 163–180.

Ruiz Campo, S., & S. Zúñiga-Jara. (2018). Reviewing capital cost estimations in aquaculture. Aquaculture Economics & Management, 22(1), 72–93.

Sampantamit, T., L. Ho, W. Van Echelpoel, & P. L. M. Goethals. (2020). Aquaculture production and its environmental sustainability in Thailand: Challenges and potential solutions. Sustainability, 12(5), 2010.

Scholz, R. W., & O. Tietje. (2002). Embedded Case Study Methods: Integrating Quantitative And Qualitative Knowledge. Sage Publications.

Setiawan, B., & N. Surantha. (2024). Smart aquaculture design for vannamei shrimp farming based on quality function development. CommIT Journal, 18(2), 229–250.

Sharma, D., & R. Kumar. (2021). Smart aquaculture: Integration of sensors, biosensors, and artificial intelligence. In Biosensors In Agriculture: Recent Trends And Future Perspectives (pp. 455–464). Springer.

Thach, K. S. R., H. T. Vo, & J.-Y. Lee. (2021). Technical efficiency and output losses in shrimp farming: A case in Mekong Delta, Vietnam. Fishes, 6(4), 59.

Food and Agriculture Organization of the United Nations. (2022). The State Of World Fisheries And Aquaculture 2022. FAO.

Food and Agriculture Organization of the United Nations. (2024). The State Of World Fisheries And Aquaculture 2024. FAO.

Tran, T., T. H. Nguyen, & D. Q. Pham. (2024). Methods and technical means of nonintrusive assessment of fish biomass and robotic maintenance of cage aquaculture. In International Conference On Agriculture Digitalization And Organic Production (pp. 207–215). Springer.

Valenti, W. C., J. M. Kimpara, B. L. Preto, & P. Moraes-Valenti. (2018). Indicators of sustainability to assess aquaculture systems. Ecological Indicators, 88, 402–413.

Vo, T. T. E., T. T. Nguyen, & J.-Y. Lee. (2021). Overview of smart aquaculture system: Focusing on applications of machine learning and computer vision. Electronics, 10(22), 2882.

Wang, X., L. Zhang, Y. Chen, & J. Li. (2023). Research progress of intelligent identification technology in aquaculture. Journal of South China Agricultural University, 44(1), 24–33.

Xi, C., Y. Zhang, H. Liu, & J. Wang. (2026). Enhanced deep OC-SORT with YOLOv8-seg for robust fry tracking and behavior analysis in aquaculture. Aquaculture, 610, 742887.