

DAFTAR PUSTAKA

- [1] J. Águila-León, C. Vargas-Salgado, C. Chiñas-Palacios, and D. Díaz-Bello, "Solar Photovoltaic Maximum Power Point Tracking Controller Optimization using Grey Wolf Optimizer: A Performance Comparison Between Bio-inspired and Traditional Algorithms," *Expert Syst. Appl.*, 2022, doi: 10.1016/j.eswa.2022.118700.
- [2] M. L. Katche, A. B. Makokha, S. O. Zachary, and M. S. Adaramola, "A Comprehensive Review of Maximum Power Point Tracking (MPPT) Techniques Used in Solar PV Systems," 2023.
- [3] M. H. Ali, M. Zakaria, and S. El-tawab, "OPEN A comprehensive study of recent maximum power point tracking techniques for photovoltaic systems," pp. 1–31, 2025.
- [4] S. M. Belhadj, B. Meliani, H. Benbouhenni, S. Zaidi, Z. Elbarbary, and M. Alammer, "Control of multi-level quadratic DC-DC boost converter for photovoltaic systems using type-2 fuzzy logic technique-based MPPT approaches," *Heliyon*, vol. 11, 2025, doi: 10.1016/j.heliyon.2025.e42181.
- [5] R. Simbolon, R. M. Simanjuntak, P. Tumangger, and A. Sinuraya, "PERANCANGAN DAN SIMULASI ENERGY MANAGEMENT SYSTEM (EMS) BERBASIS LOGIKA FUZZY UNTUK OPTIMASI BIAYA OPERASI PADA MICROGRID HIBRIDA (PLTS-PLTB-," vol. 9, no. 11, pp. 111–115, 2025.
- [6] R. A. Igam, A. Lomi, and A. U. Krismanto, "Rancang Bangun Dc/Dc Cuk Converter Berbasis Fuzzy Logic Control Untuk Kendali Baterai Pada Plts Skala Kecil," *J. Magn.*, vol. 2, no. 2, pp. 1–12, 2024.
- [7] R. Irmawanto, D. S. Panggayudi, and A. K. Fanani, "Rancang Bangun Sistem Manajemen Daya Photovoltaic Pada Kolam Ikan Berbasis Arduino dan Internet Of Things (IoT)," *Resist. (Elektronika Kendali Telekomun. Tenaga List. Komputer)*, vol. 4, no. 2, p. 127, 2021, doi: 10.24853/resistor.4.2.127-136.
- [8] B. P. Ananda, F. M. Faqih, M. Faizal, A. Kindi, and F. S. Pribadi, "Tren Algoritma InC , PID dan FLC untuk MPPT Pada Sistem Fotovoltaik : Sistematis Review," 2024, doi: 10.14710/jebt.2024.23089.

- [9] H. B. Nurjaman and T. Purnama, "Pembangkit Listrik Tenaga Surya (PLTS) Sebagai Solusi Energi Terbarukan Rumah Tangga," *J. Edukasi Elektro*, vol. 6, no. 2, pp. 136–142, 2022, doi: 10.21831/jee.v6i2.51617.
- [10] M. Rawa *et al.*, "Single Diode Solar Cells — Improved Model and Exact Current – Voltage Analytical Solution Based on Lambert ' s W Function," pp. 1–34, 2022.
- [11] K. Y. Chou, S. T. Yang, C. S. Yang, and Y. P. Chen, "Maximum Power Point Tracking of Photovoltaic System Based on Reinforcement Learning," *2019 IEEE Int. Conf. Consum. Electron. - Taiwan, ICCE-TW 2019*, 2019, doi: 10.3390/s19225054.
- [12] A. Badawi, I. M. Elzein, K. Matter, C. Ziad El-Bayeh, H. Ali, and A. Zyoud, "A Comprehensive Review of Maximum Power Tracking Techniques for Photovoltaic Systems," pp. 0–44, 2025, doi: 10.20944/preprints202510.1296.v1.
- [13] S. Panels, S. Predictive, P. F. Diagnosis, and U. L. Sensors, "Using Low-Cost Sensors," 2022.
- [14] A. Saleh, S. Motahhir, and S. Yaqoob, "Comparative study with practical validation of photovoltaic monocrystalline module for single and double diode models," *Sci. Rep.*, vol. 11, 2021, doi: 10.1038/s41598-021-98593-6.
- [15] A.-S. A. Amalia, H. Aprillia, and A. Giyantara, "Penggunaan Algoritma Logika Fuzzy Mamdani dalam Perancangan Maximum Power Point Tracking (MPPT)," *SPECTA J. Technol.*, vol. 6, no. 2, 2022, [Online]. Available: <https://journal.itk.ac.id/index.php/sjt>
- [16] H. P. Waseso, A. Lomi, and A. U. Krismanto, "Sistem Kendali MPPT Berbasis Fuzzy Logic Pada Pembangkit Listrik Tenaga Surya," *Magnetika*, vol. 08, no. 01, pp. 91–100, 2024.
- [17] M. A. Abo-Sennah, M. A. El-Dabah, and A. E. B. Mansour, "Maximum power point tracking techniques for photovoltaic systems: A comparative study," *Int. J. Electr. Comput. Eng.*, vol. 11, no. 1, pp. 57–73, 2021, doi: 10.11591/ijece.v11i1.pp57-73.
- [18] P. P. Simanjuntak and K. P. Wibowo, "ESTIMASI INTENSITAS RADIASI MATAHARI DENGAN DI KOTA JAYAPURA," vol. 8, no. 1, 2023.

- [19] M. F. Zulfa, I. S. Rifdian, and S. H. SP, "Prototype Charging System Photovoltaic Berbasis Iot Dengan Fuzzy Logic," *Approach J. ...*, vol. 7, no. 2, pp. 65–82, 2023, [Online]. Available: <http://ejournal.poltekbangsby.ac.id/index.php/approach/article/download/1819/1789>
- [20] C. R. Algarín, J. T. Giraldo, and O. R. Álvarez, "Fuzzy logic based MPPT controller for a PV system," *Energies*, vol. 10, no. 12, 2017, doi: 10.3390/en10122036.
- [21] S. Kumar, R. Kumar, and N. Singh, "Performance of Closed Loop SEPIC Converter with DC-DC Converter for Solar Energy System," no. 1, 2017.
- [22] A. Hayat, D. Sibtain, A. F. Murtaza, S. Shahzad, M. S. Jajja, and H. Kilic, "Design and Analysis of Input Capacitor in DC – DC Boost Converter for Photovoltaic-Based Systems," 2023.
- [23] R. Patel and S. Porpandiselvi, "A High-Gain Bidirectional DC-DC Converter with Dual PWM Control Strategy," in *2025 International Conference on Power Electronics Converters for Transportation and Energy Applications (PECTEA)*, 2025, pp. 1–6. doi: 10.1109/pectea61788.2025.11076289.
- [24] B. Demeianto *et al.*, "Rancang Bangun Panel Automatic Transfer Switch (Ats) Pada Pembangkit Listrik Tenaga Surya Sebagai Catu Daya Kincir Air Pada Tambak Perikanan," *Aurelia J.*, vol. 4, no. 2, p. 203, 2022, doi: 10.15578/aj.v4i2.11686.
- [25] N. S. M. Taib, S. Z. M. Noor, S. Musa, and P. D. A. Aziz, "Fuzzy logic control based MPPT for standalone photovoltaic system with battery storage," *Int. J. Power Electron. Drive Syst.*, vol. 14, no. 4, pp. 2527–2536, 2023, doi: 10.11591/ijpeds.v14.i4.pp2527-2536.
- [26] M. R. Arman, S. Amalia, T. Hidayat, and S. Bandri, "Simulation of Fuzzy Logic Controller for Improving the Efficiency of PV Systems Using MATLAB," *J. Ilm. Telsinas Elektro, Sipil dan Tek. Inf.*, vol. 8, no. 2, pp. 181–191, 2025, doi: 10.38043/telsinas.v8i2.6817.