

DAFTAR PUSTAKA

- [1] M. Ula, A. Rahmadani, and P. Elektronika Negeri Surabaya, “Rancang Bangun Maximum Power Point Tracking pada Panel Surya dengan Metode Incremental Conductance Menggunakan Zeta Konverter,” *Jurnal Ilmiah Elektroteknika*, vol. 22, no. 1, pp. 1–20, 2023, doi: <https://doi.org/10.31358/techne.v22i1.334>.
- [2] R. O. Serfa Juan and Kim Jeha, “*Photovoltaic cell* Defect Detection Model based-on Extracted Electroluminescence Images using SVM Classifier,” in *International Conference on Artificial Intelligence in Information and Communication*, 2020, pp. 578–582.
- [3] A. Kurniawan, “Perancangan Model dan Simulasi Modul Sel Surya Paralel Menggunakan MATLAB,” *JURNAL TEKNIK MESIN, INDUSTRI, ELEKTRO DAN INFORMATIKA*, vol. 1, no. 3, pp. 146–151, 2022.
- [4] Y. Sakhinatul, D. Jatmiko, and E. Suseno, “Wireless sensor system untuk pengukuran daya listrik panel surya,” *Youngster Physics Journal*, vol. 6, no. 3, pp. 221–228, 2017.
- [5] A. Giyantara, R. Bagja Rizqullah, and Wisyahyadi, “PENGARUH PARTIAL SHADING TERHADAP DAYA KELUARAN PADA PANEL SURYA,” in *Prosiding Seminar Nasional Kahuripan I Tahun 2020*, Dec. 2020, pp. 280–283.
- [6] A. Azrin Fakhira, Sudarti, and Yushardi, “Analisis Pemanfaatan Panel Surya Tipe *Polycrystalline* 100 Wp Sebagai Sumber Energi Alternatif Untuk Meningkatkan Kesejahteraan Masyarakat Pedesaan Di Indonesia,” *Jurnal Pendidikan, Sains Dan Teknologi*, vol. 02, no. 04, pp. 982–985, 2023, doi: <https://doi.org/10.47233/jpst.v2i4.1318>.
- [7] N. Huda, “ENERGI BARU TERBARUKAN *SOLAR CELL* SEDERHANA UNTUK SISTEM PENERANGAN RUMAH TANGGA,” *Jurnal Cahaya Bagaskara*, vol. 3, no. 1, pp. 6–10, 2018.
- [8] A. H. Andriawan and P. Slamet, “Tegangan Keluaran *Solar Cell* Type *Monocrystalline* Sebagai Dasar Pertimbangan Pembangkit Tenaga Surya,” *Jurnal Penelitian LPPM Untag*, vol. 02, no. 01, pp. 39–45, 2017.

- [9] Kementrian ESDM, “PERATURAN MENTERI ENERGI DAN SUMBER DAYA MINERAL REPUBLIK INDONESIA NOMOR 53 TAHUN 2018,” 2018. [Online]. Available: www.peraturan.go.id
- [10] F. Afif and A. Martin, “Tinjauan Potensi dan Kebijakan Energi Surya di Indonesia,” *Jurnal Engine: Energi, Manufaktur, dan Material*, vol. 6, no. 1, pp. 43–52, 2022.
- [11] S. E. P. Pagan, I. D. Sara, and H. Hasan, “Komparasi Kinerja Panel Surya Jenis Monokristal dan Polykristal Studi Kasus Cuaca Banda Aceh,” *Jurnal Online Teknik Elektro*, vol. 3, no. 4, pp. 19–23, 2018.
- [12] M. Siregar, N. Evalina, Cholish, Abdullah, and Moh. Z. Haq, “Analisa Hubungan Seri Dan Paralel Terhadap Karakteristik Solar Sel Di Kota Medan,” *RELE (Rekayasa Elektrikal dan Energi) : Jurnal Teknik Elektro*, vol. 3, no. 2, pp. 94–100, 2021.
- [13] A. Gunadhi, D. Lestariningsih, and R. Sitepu, “PELATIHAN DAN IMPLEMENTASI TEKNOLOGI TENAGA SURYA UNTUK POMPA TANAMAN HYDROPONIK di RT 03 TAMBAK SEGARAN IV KELURAHAN TAMBAKREJO KECAMATAN SIMOKERTO KOTA SURABAYA,” *Jurnal Leverage, Engagement, Empowerment of Community (LeECOM)*, vol. 5, no. 1, pp. 35–42, 2023, doi: <https://doi.org/10.37715/leecom.v5i1.3619>.
- [14] A. M. A. Sabaawi, A. N. Khaleel, Z. S. Yahya, and A. M. A. Sabaawi, “Study of Efficiency-limiting Defects in Silicon Solar Cells,” in *11th International Renewable Energy Congress, IREC 2020*, Institute of Electrical and Electronics Engineers Inc., Oct. 2020. doi: 10.1109/IREC48820.2020.9310427.
- [15] J. Balzategui, L. Eciolaza, and N. Arana-Arexolaleiba, “Defect detection on Polycrystalline solar cells using Electroluminescence and Fully Convolutional Neural Network,” in *Proceedings of the 2020 IEEE/SICE International Symposium on System Integration*, 2020, pp. 949–953. doi: 10.1109/SII46433.2020.9026211.
- [16] S. Xiaoyu, Y. Liu, X. Xinghua, and C. Zhili, “Defect detection method for solar cells based on human visual characteristics,” in *Proceedings - 2020 5th*

- International Conference on Mechanical, Control and Computer Engineering*, Institute of Electrical and Electronics Engineers Inc., Dec. 2020, pp. 515–518. doi: 10.1109/ICMCCE51767.2020.00118.
- [17] X. Zhang, T. Hou, Y. Hao, H. Shangguan, A. Wang, and S. Peng, “Surface Defect Detection of *Solar Cells* Based on Multiscale Region Proposal Fusion Network,” *IEEE Access*, vol. 9, pp. 62093–62101, Apr. 2021, doi: 10.1109/ACCESS.2021.3074219.
- [18] N. Wiliani, A. Sani, and A. T. Andyanto, “KLASIFIKASI KERUSAKAN DENGAN JARINGAN SYARAF BACKPROPAGATION PADA PERMUKAAN *SOLAR PANEL*,” *JURNAL ILMU PENGETAHUAN DAN TEKNOLOGI KOMPUTER*, vol. 5, no. 1, pp. 89–94, 2019, doi: <https://doi.org/10.33480/jitk.v5i1.662>.
- [19] G. Widayana, “PEMANFAATAN ENERGI SURYA,” *Jurnal Pendidikan Teknologi dan Kejuruan*, vol. 9, no. 1, pp. 37–46, 2012, doi: <https://doi.org/10.23887/jptk-undiksha.v9i1.2876>.
- [20] C. I. Cahyadi, I. G. A. A. Mas Oka, and D. Kusyadi, “EFEKTIFITAS KINERJA *SOLAR CELL* PADA PLTS DENGAN SUMBER 50WP,” *Jurnal Teknovasi*, vol. 07, no. 3, pp. 47–56, 2020.
- [21] I. K. R. Fibrina Firmandanu, I. G. B. W. Kusuma, and I. W. B. Adnyana, “Pengujian Kinerja Panel Surya Pembangkit Listrik Tenaga Surya di PT Indonesia Power Unit Bisnis Pembangkitan Bali,” *Jurnal METTEK*, vol. 5, no. 2, pp. 105–109, 2019, doi: 10.24843/mettek.2019.v05.i02.p07.
- [22] Madagaskar, A. Muin, M. Ali, and D. Istate, “ANALISA PENGARUH SUDUT DATANG SINAR MATAHARI TERHADAP KINERJA *SOLAR CELL* 50 Wp,” *Jurnal Desiminasi Teknologi*, vol. 9, no. 2, pp. 100–104, 2021.
- [23] E. Fernandez and S. Prajapati, “A Study on the Influence of Open Circuit Voltage (Voc) and Short Circuit Current (Isc) on Maximum Power Generated in a *Photovoltaic* Module/Array,” in *2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, IEEE, 2019. doi: 10.1109/UPCON47278.2019.8980284.

- [24] A. Pengaruh *et al.*, “Jurnal Mesil (Mesin, Elektro, Sipil,)” vol. 1, no. 2, pp. 99–106, 2020.
- [25] Z. Iqtimal, I. D. Sara, and D. Syahrizal, “APLIKASI SISTEM TENAGA SURYA SEBAGAI SUMBER TENAGA LISTRIK POMPA AIR,” *KITEKTRO: Jurnal Online Teknik Elektro*, vol. 3, no. 1, pp. 1–8, 2018.
- [26] A. Ahmad, Muh. R. Akhdan, M. R. Ardiyansyah, and Usman, “RANCANG BANGUN *PHOTOVOLTAIC* SIMULATOR UNTUK PENGUJIAN KARAKTERISTIK PANEL SURYA,” in *Prosiding 5th Seminar Nasional Penelitian & Pengabdian Kepada Masyarakat 2021*, Telekomunikasi..., 2021.
- [27] H. M. Ali, E. A. Setiawan, A. Setiawan, and D. Siregar, “ANALYSIS ON SOLAR PANEL PERFORMANCE AND PV-INVERTER CONFIGURATION FOR TROPICAL REGION,” *Journal of Thermal Engineering*, vol. 3, no. 3, pp. 1259–1270, 2017, doi: 10.18186/journal-of-thermal-engineering.323392.
- [28] J. Sun, L. Wang, J. Li, F. Li, J. Li, and H. Lu, *Online oil debris monitoring of rotating machinery: A detailed review of more than three decades*, vol. 149. Academic Press, 2021. doi: 10.1016/j.ymsp.2020.107341.
- [29] Z. Wen, J. Hou, and J. Atkin, *A review of electrostatic monitoring technology: The state of the art and future research directions*, vol. 94. Elsevier Ltd, 2017. doi: 10.1016/j.paerosci.2017.07.003.
- [30] A. Hutahaean and A. S. Tamsir, “ANALISIS KAPASITANSI SENSOR DIELEKTRIK MENGGUNAKAN CDC (CAPACITANCE TO DIGITAL CONVERTER) AD7746,” 2013, Accessed: Mar. 04, 2024. [Online]. Available: <https://lontar.ui.ac.id/detail?id=20331581&lokasi=lokal>
- [31] H. M. Nur, P. A. Topan, T. Andriani, and A. Jaya, “PEMBUATAN ALAT PENGUKUR ARUS BERNILAI MICRO MENGGUNAKAN RESISTOR SHUNT DAN MODUL OP-AMP AD620,” *Jurnal Altron*, vol. 02, no. 01, pp. 46–53, 2023.
- [32] S. SADI and S. MULYATI, “MONITORING SUHU RUANGAN MENGGUNAKAN MODUL HC 05 BERBASIS ANDROID,” *Jurnal Teknik*, vol. 8, no. 2, pp. 50–55, 2019.

- [33] S. T. Subandi, M. A. Novianta, and D. F. Athallah, "RANCANG BANGUN PEMBATAAN PEMAKAIAN AIR MINUM BERBASIS ARDUINO MEGA 2560 PRO MINI DENGAN SENSOR WATER FLOW YF-S204," *Jurnal Elektrikal*, vol. 8, no. 2, pp. 1–9, 2021, Accessed: Feb. 03, 2024. [Online]. Available: <https://ejournal.akprind.ac.id/index.php/elektrikal/article/view/3734>
- [34] B. Febiyanto *et al.*, "PERANCANGAN ALAT PEMBERI PAKAN AYAM SECARA OTOMATIS BERBASIS MIKROKONTROLER ATMEGA16," *Jurnal Elektrikal*, vol. 1, no. 1, pp. 1–8, 2014, Accessed: Feb. 04, 2024. [Online]. Available: <https://ejournal.akprind.ac.id/index.php/elektrikal/article/view/2693>
- [35] M. Mario, B. P. Lapanporo, and M. Muliadi, "Rancang Bangun Sistem Proteksi dan Monitoring Penggunaan Daya Listrik Pada Beban Skala Rumah Tangga Berbasis Mikrokontroler ATMega328P," *Jurnal Untan*, vol. 6, no. 1, pp. 26–33, 2018.
- [36] T. Hidayat, "Teknologi Deteksi dan Diagnosis Kerusakan pada PLTS," *JURNAL TEKNIK ELEKTRO INSTITUT TEKNOLOGI PADANG*, vol. 9, no. 1, Jan. 2020, doi: 10.21063/JTE.2020.3133903.
- [37] S. Miyajima, K. Nishioka, and Y. Hishikawa, "Non-contact Voltage Measurement of Solar Cell with Electrostatic Voltmeter," in *2017 IEEE 44th Photovoltaic Specialist Conference (PVSC)*, 2017. doi: 10.1109/PVSC.2017.8366426.
- [38] R. Alfan, M. A. Kevin, S. Wardoyo, and I. Muttakin, "STUDI FAILURE DETECTION DAN JENIS CRACK PADA SOLAR CELL MENGGUNAKAN METODE ELECTROLUMINESCENCE BERBASIS PENGOLAHAN CITRA," *Jurnal Ilmiah SETRUM*, vol. 12, no. 1, 2023.
- [39] Y. Yan *et al.*, "Their principles and applications," *Electrostatic sensors*, vol. 169, 2021, doi: <https://doi.org/10.1016/j.measurement.2020.108506>.
- [40] S. Yu, B. Wang, and L. Dong, "Study on Micro Force Sensor and its Signal Acquisition System Based on Android and Arduino," *Wiley Online Library*, vol. 15, no. 9, 2020, doi: 10.1002/tee.23205.

- [41] D. A. Putra and R. Mukhaiyar, "Monitoring Daya Listrik Secara Real Time," *Jurnal Vocational Teknik Elektronika dan Informatika*, vol. 8, no. 2, 2020, doi: <https://doi.org/10.24036/voteteknika.v8i2.109138>.