

DAFTAR PUSTAKA

- Al-Ezzi, A.S. dan Ansari, M.N.M. (2022) “Photovoltaic Solar Cells: A Review,” *Applied System Innovation*, 5(4). Tersedia pada: <https://doi.org/10.3390/asi5040067>.
- Bahaidarah, H. dkk. (2015) “Performance evaluation of a PV module under climatic conditions of Dhahran, Saudi Arabia,” *Energy Exploration and Exploitation*, 33(6), hal. 909–930. Tersedia pada: <https://doi.org/10.1260/0144-5987.33.6.909>.
- Benghanem, M. dkk. (2023) “Evaluation of the Performance of Polycrystalline and Monocrystalline PV Technologies in a Hot and Arid Region: An Experimental Analysis,” *Sustainability*, 15(20), hal. 14831. Tersedia pada: <https://doi.org/10.3390/su152014831>.
- Bening, A.K. dkk. (2025) “Analisa Perbandingan Suhu Panel dan Daya PLTS Terapung vs Grounded Berbasis IoT,” *Jurnal Otomasi Kelistrikan dan Energi Terbarukan*, 7(1), hal. 18–26. Tersedia pada: <https://doi.org/10.32722/ees.v7i1.7188>.
- Bergman, theodore L., adrienne S.L. (2018) *Fundamentals of Heat and Mass Transfer*. Eighth Edi, Wiley. Eighth Edi. Hoboken, NJ.: John Wiley & Sons.
- Besar Riyadi, T.W. dkk. (2025) “Optimized performance of submerged photovoltaic systems in shallow waters,” *Applied Thermal Engineering*, 279(PE), hal. 127879. Tersedia pada: <https://doi.org/10.1016/j.applthermaleng.2025.127879>.
- Boxwell, M. (2021) *The Solar Electricity Handbook – 2021 Edition: A simple, practical guide to solar energy – designing and installing solar photovoltaic systems*. 14 ed. Birmingham, United Kingdom: Greenstream Publishing.
- Cengel, Y.A. (2002) *Heat Transfer A practical approach*. Second Edi, *Heat Transfer*. Second Edi. New York: McGraw-Hill.
- Choi, Y. dkk. (2013) “A study on major design elements of tracking-type floating

photovoltaic systems,” hal. 1–5.

Chowdhury, G., Haggag, M. dan Poortmans, J. (2023) “How cool is floating PV? A state-of-the-art review of floating PV’s potential gain and computational fluid dynamics modeling to find its root cause,” *EPJ Photovoltaics*, 14. Tersedia pada: <https://doi.org/10.1051/epjpv/2023015>.

Clot, M.R., Rosa-Clot, P. dan Tina, G.M. (2017) “Submerged PV Solar Panel for Swimming Pools: SP3,” *Energy Procedia*, 134(July), hal. 567–576. Tersedia pada: <https://doi.org/10.1016/j.egypro.2017.09.565>.

Deceased, J.A.D. dan Beckman, W.A. (2013) *Solar engineering of thermal processes, Design Studies*. Tersedia pada: [https://doi.org/10.1016/0142-694x\(82\)90016-3](https://doi.org/10.1016/0142-694x(82)90016-3).

Dida, M. dkk. (2021) “Experimental investigation of a passive cooling system for photovoltaic modules efficiency improvement in hot and arid regions,” *Energy Conversion and Management*, 243, hal. 114328. Tersedia pada: <https://doi.org/10.1016/j.enconman.2021.114328>.

Efendi, M.S. dkk. (2024) “Pengaruh Pendinginan terhadap Daya Keluaran dan Efisiensi Sistem Panel Surya,” *METALIK: Jurnal Manufaktur, Energi, Material Teknik*, 3(2), hal. 67–73. Tersedia pada: <https://doi.org/10.22236/metalik.v3i2.16777>.

Elbreki, A.M. dkk. (2020) “An innovative technique of passive cooling PV module using lapping fins and planner reflector,” *Case Studies in Thermal Engineering*, 19(January), hal. 100607. Tersedia pada: <https://doi.org/10.1016/j.csite.2020.100607>.

Elminshawy, N.A.S., Mohamed, A.M.I., dkk. (2022a) “Performance and potential of a novel floating photovoltaic system in Egyptian winter climate on calm water surface,” *International Journal of Hydrogen Energy*, 47(25), hal. 12798–12814. Tersedia pada: <https://doi.org/10.1016/j.ijhydene.2022.02.034>.

Elminshawy, N.A.S., Mohamed, A.M.I., dkk. (2022b) “Performance and potential

- of a novel floating photovoltaic system in Egyptian winter climate on calm water surface,” *International Journal of Hydrogen Energy*, 47(25), hal. 12798–12814. Tersedia pada: <https://doi.org/10.1016/J.IJHYDENE.2022.02.034>.
- Elminshawy, N.A.S., Osama, A., dkk. (2022) “Thermo-electrical performance assessment of a partially submerged floating photovoltaic system,” *Energy*, 246, hal. 123444. Tersedia pada: <https://doi.org/10.1016/j.energy.2022.123444>.
- Elminshawy, N.A.S., Elminshawy, A. dan Osama, A. (2023) “An innovative cooling technique for floating photovoltaic module: Adoption of partially submerged angle fins,” *Energy Conversion and Management: X*, 20(May), hal. 100408. Tersedia pada: <https://doi.org/10.1016/j.ecmx.2023.100408>.
- Fathur Rahman, Mamat Rokhmat, I.W.F. (2020) “Analisis Pengaruh Temperatur Permukaan Sel Surya Terhadap Kapasitas Daya Keluaran Prodi S1 Teknik Fisika , Fakultas Teknik Elektro , Universitas Telkom,” *eProceedings of Engineering*, 7(2), hal. 4291–4300. Tersedia pada: <https://repository.telkomuniversity.ac.id/pustaka/162589/analisis-pengaruh-temperatur-permukaan-panel-surya-terhadap-kapasitas-daya-keluaran.html>.
- Gueymard, C.A. (2004) “The sun’s total and spectral irradiance for solar energy applications and solar radiation models,” *Solar Energy*, 76(4), hal. 423–453. Tersedia pada: <https://doi.org/10.1016/j.solener.2003.08.039>.
- Hasrul, R. (2021) “Sistem Pendinginan Aktif Versus Pasif Di Meningkatkan Output Panel Surya,” *Jurnal Sain, Energi, Teknologi & Industri*, 5(2), hal. 79–87. Tersedia pada: <https://doi.org/10.31849/sainetin.v5i2.7024>.
- Herez, A. dkk. (2023) “A review on the classifications and applications of solar photovoltaic technology,” *AIMS Energy*, 11(6), hal. 1102–1130. Tersedia pada: <https://doi.org/10.3934/ENERGY.2023051>.
- Koondhar, M.A. dkk. (2024) “Reviewing floating photovoltaic (FPV) technology for solar energy generation,” *Energy Strategy Reviews*, 54(March), hal. 101449. Tersedia pada: <https://doi.org/10.1016/j.esr.2024.101449>.

- Kristi, A.A. dkk. (2020) “Perancangan Sistem Pendingin Photovoltaic dengan Memanfaatkan Kontroler WaterSpray,” *Elkha*, 12(2), hal. 47–53. Tersedia pada: <https://doi.org/10.26418/elkha.v12i2.39647>.
- Kurşun, B. dkk. (2022) “Analysis of Immersion Depth in Cooling a Photovoltaic Module by Water Immersion: An Experimental Study,” *International Journal of Pioneering Technology and Engineering*, 1(01), hal. 28–31. Tersedia pada: <https://doi.org/10.56158/jpte.2022.21.1.01>.
- Majumder, A. dkk. (2023) “Cooling Methods for Standard and Floating PV Panels,” *Energies*, 16(24). Tersedia pada: <https://doi.org/10.3390/en16247939>.
- Masarrang, M. (2016) “Studi Kelayakan Dan Ded Plts Komunal Di Kabupaten Sigi,” *Jurnal Ilmiah Matematika Dan Terapan*, 13(1). Tersedia pada: <https://doi.org/10.22487/2540766x.2016.v13.i1.7501>.
- Mayang Sari, A. (2024) “Desain dan Optimasi Sistem PV Terapung: Evaluasi Teknis, Ekonomi, dan Lingkungan di Waduk Tembesi, Batam, Indonesia,” 23222350.
- Mdallal, A. dkk. (2025) “A comprehensive review on solar photovoltaics: Navigating generational shifts, innovations, and sustainability,” *Sustainable Horizons*, 13(February), hal. 100137. Tersedia pada: <https://doi.org/10.1016/j.horiz.2025.100137>.
- Mehmood, Z. dkk. (2016) “Performance analysis of MPPT charge controller with single and series/parallel connected PV panels,” *2016 International Conference on Intelligent Systems Engineering, ICISE 2016*, (January 2016), hal. 278–282. Tersedia pada: <https://doi.org/10.1109/INTELSE.2016.7475134>.
- Nergaard, A., Architect, N. dan Engineer, P. (2017) “The Magic of Buoyancy and Hydrostatics – Buoyancy and Effective Forces,” 11(12), hal. 77–83. Tersedia pada: <https://doi.org/10.5539/mas.v11n12p77>.
- Osama, A. dkk. (2021) “Design and construction of a test bench to investigate the potential of novel partially submerged PV system,” *Port-Said Engineering*

Research Journal, 0(0), hal. 0–0. Tersedia pada:
<https://doi.org/10.21608/pserj.2021.76713.1112>.

Pido, R. (2019) “Analisa Pengaruh Kenaikan Temperatur Permukaan Solar Cell Terhadap Daya Output,” *Gorontalo Journal of Infrastructure and Science Engineering*, 2(2), hal. 24. Tersedia pada: <https://doi.org/10.32662/gojise.v2i2.683>.

Purwoto, B.H. dkk. (2018) “Efisiensi Penggunaan Panel Surya sebagai Sumber Energi Alternatif,” *Emitor: Jurnal Teknik Elektro*, 18(1), hal. 10–14. Tersedia pada: <https://doi.org/10.23917/emitor.v18i01.6251>.

Putra, M.P. dan Arsianti, R.W. (2021) “Sistem Pendingin Menggunakan Air Untuk Optimasi Kinerja Panel Surya Berbasis Arduino,” *Jurnal Elektrik*, 3(1), hal. 40–47. Tersedia pada: <https://doi.org/10.30649/je.v3i1.64>.

Putri, R., Meliala, S. dan Zuraida, Z. (2020) “Penerapan Instalasi Panel Surya Off-Grid Menuju Energi Mandiri Di Yayasan Pendidikan Islam Dayah Miftahul Jannah,” *JET (Journal of Electrical ...)*, 5(3), hal. 117–120. Tersedia pada: <https://jurnal.uisu.ac.id/index.php/jet/article/view/3546>.

Quaschnig, V. (2005) *Understanding Renewable Energy Systems*. 1st Editio. London: Earthscan. Tersedia pada: <https://doi.org/10.4324/9781315800493>.

Radhiansyah, R., Syahrudin, A.S. dan Sahidin, D. (2025) “Pengaruh Intermitensi Radiasi Matahari Terhadap Daya Keluaran pada PLTS Terapung Studi Kasus Pulau Kodingareng, Makassar Sulawesi Selatan,” *Jupiter: Publikasi Ilmu Keteknikan Industri, Teknik Elektro dan Informatika*, 3(1), hal. 155–164. Tersedia pada: <https://doi.org/10.61132/jupiter.v3i1.676>.

Ramadhon, S., Muhammda, I. dan Darmawan, B. (2020) “RANCANG BANGUN MONITORING DATA SEL SURYA MENGGUNAKAN ARDUINO MEGA 2560 BERBASIS SMS GSM SIM 900,” 88, hal. 1–8.

Ridho, D.A.R., Rusda. dan Putra, M.A. (2023) “Analisis Pengaruh Sudut Kemiringan Terhadap Penerimaan Iradiasi Matahari Dan Daya Keluaran Yang Dihasilkan Panel Surya,” *PoliGrid*, 4(1), hal. 25–31. Tersedia pada:

<https://doi.org/10.46964/poligrid.v4i1.18>.

- Riyadi, T.W.B. dkk. (2024) "Performance Assessment of a Photovoltaic Cell Coupled with a Thermoelectric Generator," hal. 23. Tersedia pada: <https://doi.org/10.3390/engproc2024063023>.
- Rohman, R.H. dkk. (2024) "IoT-based Epever Tracer 1210 MPPT Monitoring System Using Modbus Communication Protocol," *Jurnal Edukasi Elektro*, 8(2), hal. 172–186. Tersedia pada: <https://doi.org/10.21831/jee.v8i2.78488>.
- Ryan Jr, M.M. (2017) *IR-Reflective Pigments: A Black Rainbow of Options*. Tersedia pada: https://www.pcimag.com/articles/102920-ir-reflective-pigments-a-black-rainbow-of-options?utm_source=chatgpt.com (Diakses: 25 Juni 2026).
- Setiawan, A. dan Setiawan, E.A. (2017) "Optimization of a photovoltaic power plant in indonesia with proper tilt angle and photovoltaic type using a system advisor model," *International Journal of Technology*, 8(3), hal. 539–548. Tersedia pada: <https://doi.org/10.14716/ijtech.v8i3.8076>.
- Setiawan, A.H., Suyanto dan Wahyuono, R.A. (2023) "Analisis Kinerja Pendinginan Pasif Pada Panel Surya Menggunakan Phase Chage Material Parafin Pada Back Sheet Alumunium," *Jurnal Cahaya Mandalika*, 4, hal. 866–876.
- Sharon, H. dkk. (2025) "Performance and water-energy nexus aspects of stagnant water layer cooled zero-tilt solar photovoltaic module," *Scientific Reports*, 15(1). Tersedia pada: <https://doi.org/10.1038/s41598-025-15448-0>.
- Shepard, E. (2014) "Solar Energy," *Energy Choices: How to Power the Future: Volumes 1-2*, 2, hal. V2-68-V2-84.
- Sidopekso, S., Nasbey, H. dan Wibowo, D.A. (2011) "Pengukuran I-V dengan Menggunakan Sun Simulator Sederhana," *Jurnal Ilmiah Elite Elektro*, 2(2), hal. 79–82. Tersedia pada: <http://www.risoe.dk/solenergu/rapporter/pdf/sec-r->.
- Suwarti dan Wahyono (2019) "Analisis Pengaruh Intensitas Matahari, Suhu

- Permukaan & Sudut Pengarah Terhadap Kinerja Panel Surya,” *Eksergi*, 14(2), hal. 46–52. Tersedia pada: <https://doi.org/10.32497/eksergi.v14i2.1325>.
- Tiyas, P.K. dan Widyartono, M. (2020) “PENGARUH EFEK SUHU TERHADAP KINERJA PANEL SURYA,” *Jurnal Teknik Elektro*, hal. 871–876. Tersedia pada: <https://doi.org/10.26740/jte.v9n1.p%p>.
- Tolentino, L.K.S., Abacco, D.F.P. dan Siquihod, M.J.M. (2019) “EFFICIENCY IMPROVEMENT OF COMMERCIALY AVAILABLE MPPT 29 th ASEMPE National Technical Symposium EFFICIENCY IMPROVEMENT OF COMMERCIALY AVAILABLE MPPT,” (June), hal. 1–5.
- Usman, U., Muhammad, U. dan Wibowo, N.R. (2018) “Rancang Bangun Pyranometer Berbasis Mikrokontroler,” *Patria Artha Technological Journal*, 2(2), hal. 139–144. Tersedia pada: <https://doi.org/10.33857/patj.v2i2.137>.
- Wahidin, N.F., Yadie, E. dan Putra, M.A. (2022) “Analisis Perbandingan Solar Charging Controller (SCC) Jenis PWM Dan MPPT Pada Automatic Handwasher with Workstation Bertenaga Surya Politeknik Negeri Samarinda,” *PoliGrid*, 3(1), hal. 12. Tersedia pada: <https://doi.org/10.46964/poligrid.v3i1.1490>.
- Wahyuni, R.T., Subagiyo, H. dan Huda, A. (2023) “The Design and Construction of A Dynamic Multi-Sensor and Multi-Storage Data Logger for Weather Parameters,” *Photon: Jurnal Sain dan Kesehatan*, 14(1), hal. 10–17. Tersedia pada: <https://doi.org/10.37859/jp.v14i1.6278>.
- Yobes, M., Waita, S. dan Okeng’o, G. (2022) “Performance of solar panels at various depths in stationary water,” *Ethiopian Journal of Science and Technology*, 15(3), hal. 239–253. Tersedia pada: <https://doi.org/10.4314/ejst.v15i3.2>.