

DAFTAR PUSTAKA

- [1] D. A. Asfani *et al.*, “Electric Vehicle Research in Indonesia: A Road map, Road tests, and Research Challenges,” *IEEE Electrif. Mag.*, vol. 8, no. 2, pp. 44–51, 2020, doi: 10.1109/MELE.2020.2985485.
- [2] T. Y. Chian *et al.*, “A Review on Recent Progress of Batteries for Electric Vehicles,” *Int. J. Appl. Eng. Res.*, vol. 14, no. 24, pp. 4441–4461, 2019, [Online]. Available: <http://www.ripublication.com>
- [3] G. National and H. Pillars, *Modern electric, hybrid electric, and Fuel cell vehicles.*
- [4] J. A. Sanguesa, V. Torres-Sanz, P. Garrido, F. J. Martinez, and J. M. Marquez-Barja, “A review on electric vehicles: Technologies and challenges,” *Smart Cities*, vol. 4, no. 1, pp. 372–404, 2021, doi: 10.3390/smartcities4010022.
- [5] V. Agarwal, K. Uthaichana, R. A. Decarlo, and L. H. Tsoukalas, “Development and validation of a battery model useful for discharging and charging power control and lifetime estimation,” *IEEE Trans. Energy Convers.*, vol. 25, no. 3, pp. 821–835, 2010, doi: 10.1109/TEC.2010.2043106.
- [6] M. T. Afif and I. A. P. Pratiwi, “Analisis Perbandingan Baterai Lithium-Ion, Lithium-Polymer, Lead Acid Dan Nickel-Metal Hydride Pada Penggunaan Mobil Listrik-Review,” *J. Rekayasa Mesin*, vol. 6, no. 2, pp. 95–99, 2015.
- [7] R. Carter, A. Cruden, P. J. Hall, and A. S. Zaher, “An improved lead-acid battery pack model for use in power simulations of electric vehicles,” *IEEE*

- Trans. Energy Convers.*, vol. 27, no. 1, pp. 21–28, 2012, doi: 10.1109/TEC.2011.2170574.
- [8] H. A. Serhan and E. M. Ahmed, “Effect of the different charging techniques on battery life-time: Review,” *Proc. 2018 Int. Conf. Innov. Trends Comput. Eng. ITCE 2018*, vol. 2018-March, pp. 421–426, 2018, doi: 10.1109/ITCE.2018.8316661.
- [9] Dede Hendriono, “Baterai Asam-Timbal,” *henduino.github.io*, 2020.
- [10] J. Marchildon, M. L. Doumbia, and K. Agbossou, “SOC and SOH characterisation of lead acid batteries,” *IECON 2015 - 41st Annu. Conf. IEEE Ind. Electron. Soc.*, pp. 1442–1446, 2015, doi: 10.1109/IECON.2015.7392303.
- [11] D. Widjanarko, “Studi Tingkat Penguasaan Rangkaian Sistem Pengisian (Charging System) Oleh Mahasiswa Pasca Proses Pembelajaran Mata Kuliah Teori Kelistrikan Otomotif,” *Lembaran Ilmu Kependidikan*, vol. 37, no. 1, pp. 1–6, 2008.
- [12] G. B. Alteri, M. Bonomo, F. Decker, and D. Dini, “Contact glow discharge electrolysis: Effect of electrolyte conductivity on discharge voltage,” *Catalysts*, vol. 10, no. 10, pp. 1–15, 2020, doi: 10.3390/catal10101104.
- [13] Z. Huang, J. Liu, H. Zhai, and Q. Wang, “Experimental investigation on the characteristics of thermal runaway and its propagation of large-format lithium ion batteries under overcharging and overheating conditions,” *Energy*, vol. 233, p. 121103, 2021, doi: 10.1016/j.energy.2021.121103.
- [14] I. Susanti, R. Rumiasih, C. RS, and A. Firmansyah, “Pengisiannya Pada Mobil Listrik,” *Elektra*, vol. 4, no. 2, pp. 29–37, 2019.
- [15] M. Udin, B. S. Kaloko, and T. Hardianto, “Peramalan Kapasitas Baterai Lead Acid pada Mobil Listrik Berbasis Levenberg Marquardt Neural Network,” *Berk. Sainstek*, vol. 5, no. 2, p. 112, 2017, doi:

10.19184/bst.v5i2.5703.

- [16] F. Sutra Kamajaya and M. Muzmi Ulya, "Analisis Teknologi Charger Untuk Kendaraan Listrik - Review," *J. Rekayasa Mesin*, vol. 6, no. 3, pp. 163–166, 2015, doi: 10.21776/ub.jrm.2015.006.03.4.
- [17] F. Rahmatullah, "Desain dan Simulasi Battery Charger Metode CC-CV (Constant Current-Constant Voltage) dengan Kontrol Logika Fuzzy Menggunakan MATLAB," *Cyclotron*, vol. 4, no. 2, pp. 18–22, 2021, doi: 10.30651/cl.v4i2.8621.
- [18] H. Bizhani, S. K. H. Sani, H. Rezazadeh, and S. M. Muyeen, "A Comprehensive Comparison of a Lead-Acid Battery Electro-Thermal Performance Considering Different Charging Profiles," *2021 IEEE 4th Int. Conf. Comput. Power Commun. Technol. GUCON 2021*, vol. Vi, no. September, pp. 1–6, 2021, doi: 10.1109/GUCON50781.2021.9573724.
- [19] X. Qu, H. Han, S. C. Wong, C. K. Tse, and W. Chen, "Hybrid IPT Topologies with Constant Current or Constant Voltage Output for Battery Charging Applications," *IEEE Trans. Power Electron.*, vol. 30, no. 11, pp. 6329–6337, 2015, doi: 10.1109/TPEL.2015.2396471.
- [20] M. U. Ali, S. H. Nengroo, M. A. Khan, K. Zeb, M. A. Kamran, and H. J. Kim, "A real-time simulink interfaced fast-charging methodology of lithium-ion batteries under temperature feedback with fuzzy logic control," *Energies*, vol. 11, no. 5, 2018, doi: 10.3390/en11051122.
- [21] P. G. Horkos, E. Yammine, and N. Karami, "Review on different charging techniques of lead-acid batteries," *2015 3rd Int. Conf. Technol. Adv. Electr. Electron. Comput. Eng. TAECE 2015*, no. January, pp. 27–32, 2015, doi: 10.1109/TAECE.2015.7113595.
- [22] H. A. Catherine, J. F. Burgel, A. Rusek, and F. Feres, "Modelling and simulation of lead-acid battery charging," *J. Power Sources*, vol. 80, no. 1, pp. 17–20, 1999, doi: 10.1016/S0378-7753(98)00248-1.

- [23] A. Hadi, I. Said, M. Mansor, and H. Hussain, "Fast charger for Li-ion batteries based on battery temperature," *IET Semin. Dig.*, vol. 2014, no. CP659, 2014, doi: 10.1049/cp.2014.1504.
- [24] L. R. Dung, C. E. Chen, and H. F. Yuan, "A robust, intelligent CC-CV fast charger for aging lithium batteries," *IEEE Int. Symp. Ind. Electron.*, vol. 2016-Novem, pp. 268–273, 2016, doi: 10.1109/ISIE.2016.7744901.
- [25] C. H. Cai, D. Du, and Z. Y. Liu, "Battery state-of-charge (SOC) estimation using adaptive neuro-fuzzy inference system (ANFIS)," *IEEE Int. Conf. Fuzzy Syst.*, vol. 2, pp. 1068–1073, 2003, doi: 10.1109/fuzz.2003.1206580.
- [26] I. Carlucho, R. De La Vega, M. Spina, and G. G. Acosta, "A Modular Battery Management System for Electric Vehicles," *2018 IEEE Bienn. Congr. Argentina, ARGENCON 2018*, pp. 1–6, 2019, doi: 10.1109/ARGENCON.2018.8646227.
- [27] K. W. E. Cheng, B. P. Divakar, H. Wu, K. Ding, and H. F. Ho, "Battery-management system (BMS) and SOC development for electrical vehicles," *IEEE Trans. Veh. Technol.*, vol. 60, no. 1, pp. 76–88, 2011, doi: 10.1109/TVT.2010.2089647.
- [28] "PZEM-003 / 017 DC communication module," Solar - Thailand.
- [29] T. Qiang, G. Guangling, L. Hai, C. Lina, and W. Han, "Nodemcu-based Low-cost Smart Home Node Design," *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 435, no. 1, 2018, doi: 10.1088/1757-899X/435/1/012013.
- [30] M. Gaudenzi Asinelli, M. Serra Serra, J. Molera Marimòn, and J. Serra Espauella, "The smARTS_Museum_V1: An open hardware device for remote monitoring of Cultural Heritage indoor environments," *HardwareX*, vol. 4, 2018, doi: 10.1016/j.ohx.2018.e00028.
- [31] A. C. Bento, "An Experiment with Arduino Uno and Tft Nextion for Internet of Things," *2018 Int. Conf. Recent Innov. Electr. Electron.*

- Commun. Eng. ICRIEEECE 2018*, no. July 2018, pp. 1238–1242, 2018, doi: 10.1109/ICRIEEECE44171.2018.9008416.
- [32] A. I. Ramadhani, S. D. Nugraha, P. Studi, T. Elektro, P. Elektronika, and N. Surabaya, “DESAIN DAN IMPLEMENTASI BATTERY CHARGER VALVE REGULATED LEAD ACID DENGAN MONITORING STATE OF CHARGE MENGGUNAKAN METODE COULOMB COUNTING,” vol. 11, no. 1, pp. 63–68, 2022.
- [33] Y. Bai and D. Wang, “Fundamentals of Fuzzy Logic Control — Fuzzy Sets, Fuzzy Rules and Defuzzifications BT - Advanced Fuzzy Logic Technologies in Industrial Applications,” pp. 17–36, 2006.
- [34] F. Wahab, A. Sumardiono, A. R. Al Tahtawi, and A. F. A. Mulayari, “Desain dan Purwarupa Fuzzy Logic Control untuk Pengendalian Suhu Ruangan,” *J. Teknol. Rekayasa*, vol. 2, no. 1, p. 1, 2017, doi: 10.31544/jtera.v2.i1.2017.1-8.
- [35] Z. Jamal *et al.*, “Development of Fuzzy Logic Controller For Trainer Kit Based on Microcontroller,” no. 93, pp. 36–41, 2016.
- [36] B. Mikrokontroller, *Sistem Robotika*.
- [37] R. Collin, Y. Miao, A. Yokochi, P. Enjeti, and A. Von Jouanne, “Advanced electric vehicle fast-charging technologies,” *Energies*, vol. 12, no. 10, 2019, doi: 10.3390/en12101839.
- [38] M. Nizam and N. A. Ali, “Design and Development of Fast Charging Battery Using Fuzzy Logic Control Technique,” *J. Electr. Electron. Information, Commun. Technol.*, vol. 1, no. 1, p. 19, 2019, doi: 10.20961/jeeict.v1i1.34770.
- [39] M. W. Cheng, S. M. Wang, Y. S. Lee, and S. H. Hsiao, “Fuzzy controlled fast charging system for lithiumion batteries,” *Proc. Int. Conf. Power Electron. Drive Syst.*, no. June, pp. 1498–1503, 2009, doi:

10.1109/PEDS.2009.5385724.

- [40] E. Banguero, A. Correcher, Á. Pérez-Navarro, F. Morant, and A. Aristizabal, “A review on battery charging and discharging control strategies: Application to renewable energy systems,” *Energies*, vol. 11, no. 4, pp. 1–15, 2018, doi: 10.3390/en11041021.
- [41] M. A. Khan *et al.*, “A novel supercapacitor/lithium-ion hybrid energy system with a fuzzy logic-controlled fast charging and intelligent energy management system,” *Electron.*, vol. 7, no. 5, pp. 1–19, 2018, doi: 10.3390/electronics7050063.
- [42] M. Bayya, U. M. Rao, B. V. V. S. N. Prabhakara Rao, and N. Moorthy Muthukrishnan, “Comparison of voltage charging techniques to increase the life of lead acid batteries,” *Proc. - 2018 IEEE 4th Int. Symp. Smart Electron. Syst. iSES 2018*, pp. 279–284, 2018, doi: 10.1109/iSES.2018.00067.