REFERENSI

[1]   I. R. Moyles, M. G. Hennessy, T. G. Myers, and B. R. Wetton, "Asymptotic Reduction of a Porous Electrode Model for Lithium-Ion Batteries," *SIAM J Appl Math*, vol. 79, no. 4, pp. 1528–1549, 2019, doi: 10.1137/18M1189579.

[2]   T. Leisegang *et al.*, "The aluminum-ion battery: A sustainable and seminal concept?," *Frontiers in Chemistry*, vol. 7, no. APR. Frontiers Media S.A., 2019. doi: 10.3389/fchem.2019.00268.

[3]   B. Dimitrov, M. Krishna, A. Cruden, S. Sharkh, and A. Elkhateb, "Analysis, design, and experimental validation of a primary side current-sensing flyback converter for use in a battery management system," *Electronics (Switzerland)*, vol. 7, no. 4, Apr. 2018, doi: 10.3390/electronics7040043.

[4]   C. Chang, Y. Zheng, and Y. Yu, "Estimation for battery state of charge based on temperature effect and fractional extended kalman filter," *Energies (Basel)*, vol. 13, no. 22, Nov. 2020, doi: 10.3390/en13225947.

[5]   S. Ma *et al.*, "Temperature effect and thermal impact in lithium-ion batteries: A review," *Progress in Natural Science: Materials International*, vol. 28, no. 6, pp. 653–666, Dec. 2018, doi: 10.1016/j.pnsc.2018.11.002.

[6]   PA Arif, Ardiansyah MF, KA Naufal, Cahyadi AI, and Wahyunggoro O, "DESAIN BATTERY MANAGEMENT SYSTEM BERBASIS SENSORLESS CURRENT DENGAN FITUR ACTIVE CELL BALANCING MENGGUNAKAN LOW COST MICROCONTROLLER," Universitas Gadjah Mada, Yogyakarta, 2020.

[7]   M. Ismail, R. Dlyma, A. Elrakaybi, R. Ahmed, and S. Habibi, "Battery state of charge estimation using an Artificial Neural Network," in *2017 IEEE Transportation Electrification Conference and Expo (ITEC)*, Jun. 2017, pp. 342–349. doi: 10.1109/ITEC.2017.7993295.

[8]   G. Crowel Jr., "Lithium Ion Charge Discharge Mechanism Principle."

[9]   G. Crowel Jr., "Lithium Polymer Batteries," *https://www.eeweb.com/lithium-polymer-batteries/*.

[10]   S. Yang *et al.*, "Implementation for a cloud battery management system based on the CHAIN framework," *Energy and AI*, vol. 5, p. 100088, Sep. 2021, doi: 10.1016/j.egyai.2021.100088.

[11]   Aswinth Raj, "Cell Balancing Techniques and How to Use Them," *https://circuitdigest.com/article/cell-balancing-techniques-and-how-to-use-them*.

[12] M. Zhang and X. Fan, "Review on the State of Charge Estimation Methods for Electric Vehicle Battery," *World Electric Vehicle Journal*, vol. 11, no. 1, p. 23, Mar. 2020, doi: 10.3390/wevj11010023.

[13] W. Diao, S. Saxena, B. Han, and M. Pecht, "Algorithm to Determine the Knee Point on Capacity Fade Curves of Lithium-Ion Cells," *Energies (Basel)*, vol. 12, no. 15, p. 2910, Jul. 2019, doi: 10.3390/en12152910.

[14] S. Yang, C. Deng, Y. Zhang, and Y. He, "State of Charge Estimation for Lithium-Ion Battery with a Temperature-Compensated Model," *Energies (Basel)*, vol. 10, no. 10, p. 1560, Oct. 2017, doi: 10.3390/en10101560.

[15] X. Hu, S. E. Li, and Y. Yang, "Advanced Machine Learning Approach for Lithium-Ion Battery State Estimation in Electric Vehicles," *IEEE Transactions on Transportation Electrification*, vol. 2, no. 2, pp. 140–149, Jun. 2016, doi: 10.1109/TTE.2015.2512237.

[16] O. I. Abiodun, A. Jantan, A. E. Omolara, K. V. Dada, N. A. Mohamed, and H. Arshad, "State-of-the-art in artificial neural network applications: A survey," *Heliyon*, vol. 4, no. 11, p. e00938, Nov. 2018, doi: 10.1016/j.heliyon.2018.e00938.

[17] R. M. Tharsanee, R. S. Soundariya, A. S. Kumar, M. Karthiga, and S. Sountharrajan, "Deep convolutional neural network–based image classification for COVID-19 diagnosis," in *Data Science for COVID-19*, Elsevier, 2021, pp. 117–145. doi: 10.1016/B978-0-12-824536-1.00012-5.

[18] M. Senthilkumar, "Use of artificial neural networks (ANNs) in colour measurement," in *Colour Measurement*, Elsevier, 2010, pp. 125–146. doi: 10.1533/9780857090195.1.125.

[19] B. Kumaraswamy, "Neural networks for data classification," in *Artificial Intelligence in Data Mining*, Elsevier, 2021, pp. 109–131. doi: 10.1016/B978-0-12-820601-0.00011-2.

[20] K. Liu and J. Zhang, "A Dual-Layer Attention-Based LSTM Network for Fed-batch Fermentation Process Modelling," 2021, pp. 541–547. doi: 10.1016/B978-0-323-88506-5.50086-3.

[21] F. Harrou, Y. Sun, A. S. Hering, M. Madakyaru, and A. Dairi, "Chapter 7 - Unsupervised recurrent deep learning scheme for process monitoring," in *Statistical Process Monitoring Using Advanced Data-Driven and Deep Learning Approaches*, F. Harrou, Y. Sun, A. S. Hering, M. Madakyaru, and A. Dairi, Eds. Elsevier, 2021, pp. 225–253. doi: https://doi.org/10.1016/B978-0-12-819365-5.00013-9.

[22] O. I. Khristodulo, A. A. Makhmutov, and T. V. Sazonova, "Use algorithm Based at Hamming Neural Network Method for Natural Objects Classification," *Procedia Comput Sci*, vol. 103, pp. 388–395, 2017, doi: 10.1016/j.procs.2017.01.126.

[23] H. Hinz, "Comparison of Lithium-Ion Battery Models for Simulating Storage Systems in Distributed Power Generation," *Inventions*, vol. 4, no. 3, p. 41, Aug. 2019, doi: 10.3390/inventions4030041.

[24] S. Agung Widayat, A. Imam Cahyadi, and O. Wahyunggoro, "PEMODELAN DAN IDENTIFIKASI PARAMETER BATERAI LITHIUM POLYMER DENGAN ALGORITME RECURSIVE LEAST SQUARE," Yogyakarta, 2015.

[25] Hristev RM, "Multi Layer Neural Networks," in *The ANN Book*, 1st ed., GNU Public License, 1998, pp. 541–547.

[26] C. Vidal, P. Malysz, P. Kollmeyer, and A. Emadi, "Machine Learning Applied to Electrified Vehicle Battery State of Charge and State of Health Estimation: State-of-the-Art," *IEEE Access*, vol. 8, pp. 52796–52814, 2020, doi: 10.1109/ACCESS.2020.2980961.

[27] M. Talha, F. Asghar, and S. H. Kim, "A Neural Network-Based Robust Online SOC and SOH Estimation for Sealed Lead–Acid Batteries in Renewable Systems," *Arab J Sci Eng*, vol. 44, no. 3, pp. 1869–1881, Mar. 2019, doi: 10.1007/s13369-018-3200-8.

[28] P. Kollmeyer, C. Vidal, M. Naguib, and M. Skells, "LG 18650HG2 Li-ion Battery Data and Example Deep Neural Network xEV SOC Estimator Script," *DOI: 10.17632/cp3473x7xv.3*, vol. 3, Mar. 2020.

[29] M. H. Rashid, *Microelectronic Circuits: Analysis and Design*, 2nd ed. Cengage Learning, 2011.

[30] C. Benatti Moretti, "TinyML Part 1: An Easy Implementation of Artificial Neural Network on an Arduino Boards," *https://www.youtube.com/watch?v=MxXGnBHJJXo&ab_channel=TronixLab*. 2021.

[31] Jonathan Chadwick, "Shocking video shows lithium battery e cigarette EXPLODING," *https://www.dailymail.co.uk/sciencetech/article-11181793/Shocking-video-shows-lithium-battery-e-cigarette-EXPLODING.html*, Sep. 06, 2022.

[32] Iris Crawford, Yang Shao-Horn, and David Keith, "How much CO2 is emitted by manufacturing batteries?," *https://climate.mit.edu/ask-mit/how-much-co2-emitted-manufacturing-batteries*, Jul. 22, 2022.