

DAFTAR PUSTAKA

- Adafruit. (t.t). Diakses pada Maret 26, 2024, dari: <https://www.adafruit.com/product/1778>
- Akbarzadeh, M., Jaguemont, J., Kalogiannis, T., Karimi, D., He, J., Jin, L., Xie, P., Van Mierlo, J., & Berecibar, M. (2021). A novel liquid cooling plate concept for thermal management of lithium-ion batteries in electric vehicles. *Energy Conversion and Management*, 231.
- Akkaldevi, C., Chitta, S. D., Jaidi, J., Panchal, S., Fowler, M., & Fraser, R. (2021). Coupled Electrochemical-Thermal Simulations and Validation of Minichannel Cold-Plate Water-Cooled Prismatic 20 Ah LiFePO₄ Battery. *Electrochem*, 2(4), 643–663.
- Apporro-cnc.com. (t.t). BSPP (G)/BSPT (R)-International standards. Diakses pada Mei 5, 2024, dari: https://apporro-cnc.com/extend.php?menu_s=406&sn=54
- Bai, F., Chen, M., Song, W., Feng, Z., Li, Y., & Ding, Y. (2017). Thermal management performances of PCM/water cooling-plate using for lithium-ion battery module based on non-uniform internal heat source. *Applied Thermal Engineering*, 126, 17–27.
- Bergman, T. L., Lavine, A. S., Incropera, F. P., & Dewitt, D. P. (2011). *Fundamentals of Heat and Mass Transfer, Seventh Edition by Theodore L. Bergman, Adrienne S. Lavine, Frank P. Incropera, David P. DeWitt*
- Bernardi, D., Pawlikowski, E., & Newman, J. (1985). *A General Energy Balance for Battery Systems* (Vol. 132, Issue 1).
- Campestrini, C., Horsche, M. F., Zilberman, I., Heil, T., Zimmermann, T., & Jossen, A. (2016). Validation and benchmark methods for battery management system functionalities: State of charge estimation algorithms. *Journal of Energy Storage*, 7, 38–51.
- Cengel, Y. A. (2002). *Heat Transfer ; A Practical Approach [2nd Edition]*.
- Cengel, Y. A., Cimbala, J. M., Turner, R. H. (2008). *Fundamentals of Thermo-Fluid Sciences*. McGraw-Hill, Inc.
- Chaurette, J. (2003). *Pipe Roughness Values*. www.fluidedesign.com
- Dolganova, I., Rödl, A., Bach, V., Kaltschmitt, M., & Finkbeiner, M. (2020). A review of life cycle assessment studies of electric vehicles with a focus on resource use. *Resources*, 9(3).
- Dunn B, Kamath H, Tarascon JM. Electrical energy storage for the grid: a battery of choices. *Science*. 2011 Nov 18;334(6058):928-35. doi: 10.1126/science.1212741. PMID: 22096188.

- East Tester. (2021). Diakses pada Maret 26, 2024, dari: <https://www.easttester-cn.com/et54xx-a-programmable-electronic-dc-load-product/>
- Esfandyari, M. J., Hairi Yazdi, M. R., Esfahanian, V., Masih-Tehrani, M., Nehzati, H., & Shekoofa, O. (2019). A hybrid model predictive and fuzzy logic based control method for state of power estimation of series-connected Lithium-ion batteries in HEVs. *Journal of Energy Storage*, 24.
- Hangzhou Purswave Technology Co.,Ltd. (t.t). Diakses pada Maret 25, 2024, dari: http://www.purswave.cn/en/pd.jsp?id=258&fromCollId=0#_pp=0_550_9
- Hekmat, S., & Molaeimanesh, G. R. (2020). Hybrid thermal management of a Li-ion battery module with phase change material and cooling water pipes: An experimental investigation. *Applied Thermal Engineering*, 166.
- Huang, Q., Li, X., Zhang, G., Deng, J., & Wang, C. (2021). Thermal management of Lithium-ion battery pack through the application of flexible form-stable composite phase change materials. *Applied Thermal Engineering*, 183.
- Huang, Q., Yan, M., & Jiang, Z. (2006). Thermal study on single electrodes in lithium-ion battery. *Journal of Power Sources*, 156(2), 541–546.
- Huo, Y., Rao, Z., Liu, X., & Zhao, J. (2015). Investigation of power battery thermal management by using mini-channel cold plate. *Energy Conversion and Management*, 89, 387–395.
- Hydraulics. (t.t). Benang G vs BSPP. Diakses pada Mei 5, 2024, dari: <https://www.qchdraulics.com/g-thread-vs-bspp.html>
- IEA, 2021. Global EV outlook 2021. IEA, Paris. <https://www.iea.org/reports/global-evoutlook-2021>.
- Keiner, D., Ram, M., Barbosa, L. D. S. N. S., Bogdanov, D., & Breyer, C. (2019). Cost optimal self-consumption of PV prosumers with stationary batteries, heat pumps, thermal energy storage and electric vehicles across the world up to 2050. *Solar Energy*, 185, 406–423.
- Kiani, M., Ansari, M., Arshadi, A. A., Houshfir, E., & Ashjaee, M. (2020). Hybrid thermal management of lithium-ion batteries using nanofluid, metal foam, and phase change material: an integrated numerical–experimental approach. *Journal of Thermal Analysis and Calorimetry*, 141(5), 1703–1715.
- Kong, D., Peng, R., Ping, P., Du, J., Chen, G., & Wen, J. (2020). A novel battery thermal management system coupling with PCM and optimized controllable liquid cooling for different ambient temperatures. *Energy Conversion and Management*, 204.

- Kurniawan, A. (2020). Analisis Laju Perpindahan Panas pada Baterai Ion Lithium 18650 terhadap Beban Keluarannya dengan Metode Numerik. *Journal of Mechanical Design and Testing*, 2(2), 87–102.
- Ling, Z., Wang, F., Fang, X., Gao, X., & Zhang, Z. (2015). A hybrid thermal management system for lithium ion batteries combining phase change materials with forced-air cooling. *Applied Energy*, 148, 403–409.
- Liu, H., Wei, Z., He, W., & Zhao, J. (2017). Thermal issues about Li-ion batteries and recent progress in battery thermal management systems: A review. In *Energy Conversion and Management* (Vol. 150, pp. 304–330). Elsevier Ltd.
- Moraga, N. O., Xamán, J. P., & Araya, R. H. (2016). Cooling Li-ion batteries of racing solar car by using multiple phase change materials. *Applied Thermal Engineering*, 108, 1041–1054.
- Munson, B. R., Young, D. F., Okiishi, T. H., & Huebsch, W. W. (2009). *Fundamentals of Fluid Mechanics, 6th Edition by Bruce R. Munson, Donald F. Young, Theodore H. Okiishi, Wade W. Huebsch (z-lib.org)*.
- Nasajpour-Esfahani, N., Garmestani, H., Rozati, M., & Smaisim, G. F. (2023). The role of phase change materials in lithium-ion batteries: A brief review on current materials, thermal management systems, numerical methods, and experimental models. In *Journal of Energy Storage* (Vol. 63). Elsevier Ltd.
- National Instrument. (2024). Diakses pada Maret 26, 2024, dari: <https://www.ni.com/en-id/support/model.usb-6008.html>
- National Institute of Health. (t.t). Diakses pada Mei 5, 2024, dari: <https://pubchem.ncbi.nlm.nih.gov/compound/Eicosane>
- Onorati, R. : A., & Muratori, M. (2008). *Thermal Characterization of Lithium-Ion Battery Cell*.
- Pesaran, A. A. (2002). *Battery thermal models for hybrid vehicle simulations*.
- Qin, P., Liao, M., Zhang, D., Liu, Y., Sun, J., & Wang, Q. (2019). Experimental and numerical study on a novel hybrid battery thermal management system integrated forced-air convection and phase change material. *Energy Conversion and Management*, 195, 1371–1381.
- Rao, Z., Wang, Q., & Huang, C. (2016). Investigation of the thermal performance of phase change material/mini-channel coupled battery thermal management system. *Applied Energy*, 164, 659–669.
- Sauer, D. (2021). *Lithium Series, Parallel and Series and Parallel Connections*.
- Sibarani, J. V., & Pranoto, I. (2023). *Studi Eksperimental Kinerja Sistem Pendinginan Baterai Lithium-Ion 18650 Berbasis Liquid Cold Plate*.

- Sun, Z., Fan, R., & Zheng, N. (2021). Thermal management of a simulated battery with the compound use of phase change material and fins: Experimental and numerical investigations. *International Journal of Thermal Sciences*, 165.
- Syscooling. (t.t). Diakses pada Maret 25, 2024, dari: <https://www.syscooling.com/>
- Tarascon, J.M. & Armand, M. (2001). Issues and challenges facing rechargeable lithium batteries. *Nature*, 414(6861) : 359-67.
- Threadingtoolsguide.com. (t.t) Sekilas Tentang 4 Jenis Ulir Pipa Paling Terkenal (NPT| NPFT| BSP |BSPT). Diakses pada Mei 5, 2024, dari: <https://threadingtoolsguide.com/en/blog/the-4-best-known-pipe-thread-types-at-a-glance-npt-nptf-bsp-bspt/>
- TOPS Industry and Technology Co.,Ltd. (2017). Diakses pada Maret 25, 2024, dari: <https://www.topsflo.com/micro-gear-pump/mg200xk-dc24wi.html>
- Verma, S., Dwivedi, G., & Verma, P. (2021). Life cycle assessment of electric vehicles in comparison to combustion engine vehicles: A review. *Materials Today: Proceedings*, 49, 217–222.
- Wang, H., Tao, T., Xu, J., Mei, X., Liu, X., & Gou, P. (2020). Cooling capacity of a novel modular liquid-cooled battery thermal management system for cylindrical lithium ion batteries. *Applied Thermal Engineering*, 178.
- Wang, Y. F., & Wu, J. T. (2020). Thermal performance predictions for an HFE-7000 direct flow boiling cooled battery thermal management system for electric vehicles. *Energy Conversion and Management*, 207.
- Wang, Y., Gao, T., Zhou, L., Gong, J., & Li, J. (2023). A parametric study of a hybrid battery thermal management system that couples PCM with wavy microchannel cold plate. *Applied Thermal Engineering*, 219.
- Wazeer, A., Das, A., Abeykoon, C., Sinha, A., & Karmakar, A. (2022). Phase change materials for battery thermal management of electric and hybrid vehicles: A review. *Energy Nexus*, 7.
- Wei, Y., & Agelin-Chaab, M. (2018). Experimental investigation of a novel hybrid cooling method for lithium-ion batteries. *Applied Thermal Engineering*, 136, 375–387.
- Wu, C., Zhao, J., Liu, C., & Rao, Z. (2023). Performance and prediction of baffled cold plate based battery thermal management system. *Applied Thermal Engineering*, 219.
- Wu, W., Xie, S., Zhang, W., Ma, R., Yang, J., & Rao, Z. (2022). Role of natural convection and battery arrangement for phase change material based battery thermal management unit. *Journal of Energy Storage*, 52.

- Wu, X., Wang, K., Chang, Z., Chen, Y., Cao, S., Lv, C., Liu, H., & Wang, Y. (2022). Experimental and numerical study on hybrid battery thermal management system combining liquid cooling with phase change materials. *International Communications in Heat and Mass Transfer*, 139.
- Xia, X., & Li, P. (2022). A review of the life cycle assessment of electric vehicles: Considering the influence of batteries. In *Science of the Total Environment* (Vol. 814). Elsevier B.V.
- Xie, N., Zhang, Y., Liu, X., Luo, R., Liu, Y., & Ma, C. (2023). Thermal performance and structural optimization of a hybrid thermal management system based on MHPA/PCM/liquid cooling for lithium-ion battery. *Applied Thermal Engineering*, 235.
- Xiong, W., Xie, J., Ke, X., Zhang, G., & Yang, X. (2023). Energy-saving thermal management system coupling phase change material with discretely-operating liquid cooling. *Journal of Energy Storage*, 73.
- Xu, J., Lan, C., Qiao, Y., & Ma, Y. (2017). Prevent thermal runaway of lithium-ion batteries with minichannel cooling. *Applied Thermal Engineering*, 110, 883–890.
- Ye, G., Zhang, G., Jiang, L., & Yang, X. (2022). Temperature control of battery modules through composite phase change materials with dual operating temperature regions. *Chemical Engineering Journal*, 449.
- Zhang, T., Gao, C., Gao, Q., Wang, G., Liu, M. H., Guo, Y., Xiao, C., & Yan, Y. Y. (2015). Status and development of electric vehicle integrated thermal management from BTM to HVAC. *Applied Thermal Engineering*, 88, 398–409.
- Zhang, A., & Li, Y. (2023). Thermal Conductivity of Aluminum Alloys—A Review. In *Materials* (Vol. 16, Issue 8). MDPI.
- Zhao, G., Wang, X., Negnevitsky, M., & Li, C. (2023). An up-to-date review on the design improvement and optimization of the liquid-cooling battery thermal management system for electric vehicles. In *Applied Thermal Engineering* (Vol. 219). Elsevier Ltd.
- Zhao, J., Rao, Z., Huo, Y., Liu, X., & Li, Y. (2015). Thermal management of cylindrical power battery module for extending the life of new energy electric vehicles. *Applied Thermal Engineering*, 85, 33–43.
- Zhao, L., Li, W., Wang, G., Cheng, W., & Chen, M. (2023). A novel thermal management system for lithium-ion battery modules combining direct liquid-cooling with forced air-cooling. *Applied Thermal Engineering*, 232.