

### DAFTAR PUSTAKA

- Awan, T. I., Bashir, A., Tehseen, A., & Bibi, S. (2020). Chapter 7 - Electrons in nanostructures. Dalam T. I. Awan, A. Tehseen, & A. Bashir, *Chemistry of Nanomaterials: Fundamentals and Applications* (hal. 179-206). Amsterdam, Belanda: Elsevier. doi:10.1016/C2018-0-04648-4
- Barmi, M. J., & Minakshi, M. (2016). Tuning the redox properties of the nanostructured CoMoO<sub>4</sub> electrode: Effects of surfactant content and synthesis temperature. *ChemPlusChem*, 81(9), 964-977. doi:10.1002/cplu.201600294
- Baron, A. S. (2019). *Thesis: Synthesis and Characterization of methyl ammonium lead tri halide Perovskite Compounds and their Applications in Photonic Devices*. Basra, Iraq: University of Basrah. doi:10.13140/RG.2.2.29039.28328
- Brahma, S., Tran, N. T., Hsu, W.-D., Kuo, C.-L., Lin, S.-Y., Huang, J.-L., . . . Lin, M.-F. (2021). Introduction. Dalam M.-F. Lin, W.-D. Hsu, & J.-L. Huang (Penyunt.), *Lithium-Ion Batteries and Solar Cells: Physical, Chemical, and Material Properties* (hal. 2). Boca Raton: CRC Press.
- Brett, C. M. (2022). Electrochemical Impedance Spectroscopy in the Characterisation and Application of Modified Electrodes for Electrochemical Sensors and Biosensors. *Molecules*, 27, 1497. doi:10.3390/molecules27051497
- Bruker. (2022, June 30). *Handheld/Mobile/Portable XRF Spectrometers*. Diambil kembali dari BRUKER: <https://www.bruker.com/en/products-and-solutions/elemental-analyzers/handheld-xrf-spectrometers.html>
- Choi, W., Shin, H.-C., Kim, J. M., Choi, J.-Y., & Yoon, W.-S. (2020). Modeling and Applications of Electrochemical Impedance Spectroscopy (EIS) for Lithium-ion Batteries. *Journal Electrochemical Science & Technology*, 11(1), 1-13.
- Durmus, Y. E., Zhang, H., Baakes, F., Passerini, S., & Ein-Eli, Y. (2020). Side by Side Battery Technologies with Lithium-Ion Based Batteries. *Advanced Energy Materials*, 10( 2000089), 1-21. doi:10.1002/aenm.202000089
- Egorov, N., & Sheshin, E. (2017). *Field Emission Electronics* (Vol. 60). Gewerbestrasse , Swiss: Springer. doi:10.1007/978-3-319-56561-3
- Elgrishi, N., Rountree, K. J., McCarthy, B. D., Rountree, E. S., Eisenhart, T. T., & Dempsey, J. L. (2017). A Practical Beginner's Guide to Cyclic Voltammetry. *Journal of Chemical Education*, 95, 197–206. doi:10.1021/acs.jchemed.7b00361
- Erdman, N., Bell, D. C., & Reichelt, R. (2019). Scanning Electron Microscopy. Dalam M. W. Amrein, E. Bauer, W. P. Baumeister, D. C. Bell, P. Bianchini, D. A. Bonnell, . . . I. Díaz, *Handbook of Microscopy*. Gewerbestrasse, Swiss: Springer. doi:10.1007/978-3-030-00069-1
- Fitriyah. (2016). Interkalasi Xilenol Orange Pada Zeolit Alam Lampung Sebagai Elektroda Zeolit Termodifikasi. *EduChemia (Jurnal Kimia dan Pendidikan)*, 1(2), 162-175.

- Gencer, A. (2014). *Thesis: Design of rigid wheat gluten materials Improved mechanical properties by blending with polyamides*. Leuven, Belgia: Katholieke Universiteit Leuven.
- Goodenough, J. B. (2018). How we made the Li-ion rechargeable battery. *Nature Electronics*. doi:10.1038/s41928-018-0048-6
- Guo, Y., Jiang, Y., Zhang, Q., Wan, D., & Huang, C. (2021). Directional LiFePO<sub>4</sub> cathode structure by freeze tape casting to improve lithium ion diffusion kinetics. *Journal of Power Sources*, 506, 1-10.
- Habte, B. T., & Jiang, F. (2018). Microstructure reconstruction and impedance spectroscopy study of LiCoO<sub>2</sub>, LiMn<sub>2</sub>O<sub>4</sub> and LiFePO<sub>4</sub> Li-ion battery cathodes. *Journal of Microporous and Mesoporous Materials*, 268, 69–76. doi:doi.org/10.1016/j.micromeso.2018.04.001
- Hajizah, D. (2021). *Skripsi - Efek Penambahan Surfaktan Pluronic P123 Terhadap Struktur Morfologi dan Luas Permukaan Katoda Baterai LiMnFeCoPO<sub>4</sub>/C*. Purwokerto: FMIPA - Universitas Jenderal Soedirman.
- Hamidah, N. L., Wang, F. M., & Nugroho, G. (2018). The understanding of solid electrolyte interface (SEI) formation and mechanism as the effect of fluoro-phenylenedimaleimide (F-MI) additive on lithium-ion battery. *Surface and Interface Analysis*, 1-8. doi:10.1002/sia.6586
- Hona, R. K., Dhaliwal, G. S., & Thapa, R. (2022). Investigation of Grain, Grain Boundary, and Interface Contributions on the Impedance of Ca<sub>2</sub>FeO<sub>5</sub>. *Applied Sciences*, 12(2930). doi:10.3390/app12062930
- Hu, Y., Gu, D., Jiang, H., Wang, L., Sun, H., Wang, J., & Shen, L. (2016). Electrochemical Performance of LiFePO<sub>4</sub>/C via Coaxial and Uniaxial Electrospinning Method. *Advances in Chemical Engineering and Science*, 149-157. doi:10.4236/aces.2016.62017
- Jeol. (2019, May 7). *Jeol USA*. Diambil kembali dari Periodic Tables for SEM, TEM, Mass Spec, and NMR: <https://www.jeolusa.com/RESOURCES/JEOL-Posters/lc/47251/lcv/s/JEOL%20EDS%20Periodic%20Table>
- Julien, C., Mauger, A., Vijn, A., & Zaghbi, K. (2016). *Lithium Batteries: Science and Technology*. Cham, Switzerland: Springer. doi:10.1007/978-3-319-19108-9
- Jürgens, J. (2019, Agustus 29). *This is Why NMC is Preferable Cathode Material for Li-Ion Batteries*. Diambil kembali dari LG Energy Solution RESU Blog: <https://lghomebatteryblog.eu/en/this-is-why-ncm-is-the-preferable-cathode-material-for-li-ion-batteries/>
- Khan, S., Raj, R. P., George, L., Kannangara, G. K., Milev, A., Varadaraju, U. V., & Parasuraman, S. (2020). Surfactant-Mediated and Morphology-Controlled Nanostructured LiFePO<sub>4</sub>/Carbon Composite as a Promising Cathode Material for Li-Ion Batteries. *ChemistryOpen*, 23-31. doi:10.1002/open.201900175
- Lestariningsih, T., Sabrina, Q., & Majid, N. (2017). Penambahan TiO<sub>2</sub> Dalam Pembuatan Lembaran Polimer Elektrolit Berpengaruh Terhadap Konduktivitas dan Kinerja Baterai Lithium. *Jurnal Material dan Energi Indonesia*, 7(1), 31-37.

- Leuthner, S. (2018). Lithium-ion battery overview. Dalam P. Adelhelm, R. Bindel, K. Brandt, F. Dallinger, C. Deutskens, R. Dorn, & R. Korthauer (Penyunt.), *Lithium-Ion Batteries: Basics and Applications* (M. Wuest, Penerj., hal. 13-19). Kriftel: Springer.
- Li, C., Li, Q., Kaneti, Y. V., Dan, H., Yamauchi, Y., & Mai, Y. (2020). Review Articles - Self-assembly of block copolymers towards mesoporous. *Chemical Society Reviews*, 49, 4681--4736. doi:10.1039/d0cs00021c
- Mayeen, A., Shaji, L. K., Nair, A. K., & Kalarikkal, N. (2018). Chapter 12 - Morphological Characterization of Nanomaterials. Dalam J. Abraham, N. Agarwal, H. Albrecht, A. P. Mohammed, A. Blencowe, A. Dychalska, . . . S. Thomas, S. M. Bhagyaraj, O. S. Oluwafemi, N. Kalarikkal, & S. Thomas (Penyunt.), *Characterization of Nanomaterials* (hal. 335-364). Sawston, Britania Raya: Woodhead Publishing. doi:10.1016/B978-0-08-101973-3.09992-2
- Myers, D. (2020). *Surfactant Science and Technology* (4 ed.). Hoboken, USA: John Wiley & Sons, Inc.
- Nitta, N., Wu, F., Lee, J. T., & Yushin, G. (2015). Li-ion battery materials: present and future. *Journal of Materials Today*, 18(5), 252-264. doi:10.1016/j.mattod.2014.10.040
- Nnamch, P. S., & Obay, C. S. (2018). Chapter 4: Electrochemical Characterization of Nanomaterials. Dalam J. Abraham, N. Agarwal, H. Albrecht, A. P. Mohammed, A. Blencowe, A. Dychalska, . . . S. Thomas, S. M. Bhagyaraj, O. S. Oluwafemi, N. Kalarikkal, & S. Thomas (Penyunt.), *Characterization of Nanomaterials* (hal. 103-127). Sawston, Britania Raya: Woodhead Publishing. doi:10.1016/B978-0-08-101973-3.00004-3
- Orikasa, Y., & Uchimoto, Y. (2019). Chapter 1 - Overview of Lithium-Ion Batteries. Dalam Y. Orikasa, Y. Uchimoto, M. Finsterbusch, C.-L. Tsai, T. Kamiya, T. Satoh, . . . S. Sakabe, Y. Kato, Z. Ogumi, & J. M. Martín (Penyunt.), *Lithium-Ion Batteries: Overview, Simulation, and Diagnostics* (hal. 1-41). Singapore: Pan Stanford Publishing.
- Perdana, F. A. (2020). Baterai Lithium. *INKUIRI: Jurnal Pendidikan IPA*, 9(2), 113-118. doi:10.20961/inkuiri.v9i2.50082
- Permatasari, E. P., Rindi, M. P., & Purwanto, A. (2017). Pembuatan Katoda Baterai Lithium Ion Iron Phospate (LiFePO<sub>4</sub>) dengan Metode Solid State Reaction. *EQUILIBRIUM*, 16, 28-31.
- Priyono, B., Syahrial, A. Z., Nugraha, M. R., Sepala, D., Faizah, & Subhan, A. (2019). Optimizing The Performance of Microcomposites Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub>/Sn With Sn And Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub>/Sn@C Anode And Activated Carbon Content Variables For Lithium-Ion Batteries. *International Journal of Technology*, 10(5), International Journal of Technology. doi:10.14716/ijtech.v10i5.2563
- Priyono, S., Hardiyani, S., Syarif, N., Subhan, A., & Suhandi, A. (2019). Electrochemical performance of LiMn<sub>2</sub>O<sub>4</sub> with varying thickness of cathode sheet. *International Symposium on Frontier of Applied Physics* (hal. 1-5). IOP Publishing. doi:10.1088/1742-6596/1191/1/012022
- Quiroga, A. (2020, Agustus 16). *Cyclic Voltammetry*. Dipetik Oktober 22, 2021, dari Chemistry LibreTexts:

- [https://chem.libretexts.org/Bookshelves/Analytical\\_Chemistry/Supplemental\\_Modules\\_\(Analytical\\_Chemistry\)/Instrumental\\_Analysis/Cyclic\\_Voltammetry](https://chem.libretexts.org/Bookshelves/Analytical_Chemistry/Supplemental_Modules_(Analytical_Chemistry)/Instrumental_Analysis/Cyclic_Voltammetry)
- Saidani, F., Hutter, F. X., Scurtu, R. -G., Braunwarth, W., & Burghartz, J. N. (2017). Lithium-ion battery models: a comparative study and a model-based powerline communication. *Advance in Radio Science*, 15, 83–91. doi:10.5194/ars-15-83-2017
- Sarwono, B. H., Ahmiatri, S., & Prihandoko, B. (2018). Sintesis dan Analisis Struktur Material Aktif Katoda LiFeO, 7MnO, 2NiO, 1PO4. *AL-FIZIYA*.
- Schumm, B. (2021, Maret 5). *Battery*. Diambil kembali dari Encyclopedia Britannica.: <https://www.britannica.com/technology/battery-electronics>
- Scimeca, M., Bischett, S., Lamsira, H. K., Bonfiglio, R., & Bonanno, E. (2018). Energy Dispersive X-ray (EDX) microanalysis: A powerful tool in biomedical research and diagnosis. *European Journal of Histochemistry*, 62(2841), 1-10. doi:10.4081/ejh.2018.2841
- Sim, S.-J., Lee, S.-H., Jin, B.-S., & Kim, H.-S. (2020). Use of carbon coating on Lini0.8co0.1Mn0.1o2 cathode material for enhanced performances of lithium-ion batteries. *Scientific Reports*. doi:10.1038/s41598-020-67818-5
- Subhan, A. (2011). *Fabrikasi dan Karakterisasi Li4Ti5O12 Untuk Bahan Anoda Baterai Lithium Keramik - Tesis*. Depok: Universitas Indonesia.
- Subhan, A., & Prihandoko, B. (2017). Studi Sifat Elektrokimia Sel Baterai Sekunder Pouchcell Lithium Ion LiFePO4/Graphite Aplikasi Daya Tinggi. *Spektra: Jurnal Fisika dan Aplikasinya*, 2(3), 173-178. doi:10.21009/SPEKTRA.023.02
- Subhan, A., Setiawan, D., Saptari, S. A., & Prihandoko, B. (2017). Analisa Koefisien Difusi Anoda LTO Yang Didoping Ca Dari Limbah Kulit Telur Untuk Aplikasi Baterai Lithium-Ion Berdaya Tinggi. *Jurnal Material dan Energi Indonesia*, 7(2), 6-11.
- Triwibowo, J., Setiawan, J., Purawiardi, R. I., & Prihandoko, B. (2015). Study on Carbon-coated LiMn0.7Fe0.3-xNixPO4 (0 < x < 0.15) as Cathode Material for Lithium Ion Batteries. *Materials Science Forum*, 827, 140-145.
- Vuorilehto, K. (2018). Materials and function. Dalam *Lithium-Ion Batteries: Basics and Applications*. Kriptel: Springer.
- Wang, B., Wang, J., Wang, Q., Li, Z., Zhao, W., Li, Y., . . . Li, W. (2020). Synthesis of pomegranate-structured Si/C microspheres using P123 as surfactant for high-energy lithium-ion batteries. *Journal of Electroanalytical Chemistry*, 114102. doi:10.1016/j.jelechem.2020.114102
- Warner, J. T. (2019). Chapter 3 - Lithium-ion battery operation. Dalam J. T. Warner, *Lithium-Ion Battery Chemistries: A Primer* (hal. 43-77). Amsterdam: Elsevier. doi:10.1016/C2017-0-02140-7
- Warner, J. T. (2019). Lithium-Ion Battery Chemistries: A Primer. Dalam J. T. Warner, *Chapter 5 - The Cathodes* (hal. 99-114). Amsterdam: Elsevier. doi:10.1016/B978-0-12-814778-8.00005-3
- Wellia, D. V., Arief, S., & Prasetya, J. R. (2021). N-Doped TiO2 Berpori Dengan CTAB Sebagai Zat Pembentuk Pori Dan Aktivitas Fotokataliknya: Review. *Jurnal Kimia Unand*, 10(1), 25-35.

- Xiang, W. D., Yang, Y. X., Zheng, J. L., Chao, L., Ding, H. J., & Liu, X. N. (2010). Synthesis of mesoporous silica by cationic surfactant templating in various inorganic acid sources. *Materials Science-Poland*, 709-730.
- Yaroslavtsev, A. B., & Stenina, I. A. (2021). Carbon coating of electrode materials for lithium-ion batteries. *Surface Innovations*, 9(2), 92–110. doi:10.1680/jsuin.20.00044
- Zhang, X., Wang, J.-G., Liu, H., Liu, H., & Wei, B. (2017). Facile Synthesis of V<sub>2</sub>O<sub>5</sub> Hollow Spheres as Advanced Cathodes for High-Performance Lithium-Ion Batteries. *Materials*, 10(77). doi:doi:10.3390/ma10010077
- Zheng, H., Xie, Y., Xiang, H., Shi, P., Liang, X., & Xu, W. (2018). A Bifunctional Electrolyte Additive for Separator Wetting and Dendrite Suppression in Lithium Metal Batteries. *Electrochimica Acta*, 270, 62-69. doi:https://doi.org/10.1016/j.electacta.2018.03.089

