

DAFTAR PUSTAKA

- Abram, C., Shan, J., Yang, X., Yan, C., Steingart, D., & Ju, Y. (2019). Flame Aerosol Synthesis and Electrochemical Characterization of Ni-Rich Layered Cathode Materials for Li-Ion Batteries. *ACS Applied Energy Materials*, 2(2), 1319–1329. <https://doi.org/10.1021/acsaem.8b01892>
- Agilent Technologies Inc. (2021). *ICP-OES principle, ICP-OES Analysis, ICP-OES FAQ's | Agilent.* <https://www.agilent.com/en/support/atomic-spectroscopy/inductively-coupled-plasma-optical-emission-spectroscopy-icp-oes/icp-oes-instruments/icp-oes-faq>
- Ajayi, B. P., Thapa, A. K., Cvelbar, U., Jasinski, J. B., & Sunkara, M. K. (2017). Atmospheric plasma spray pyrolysis of lithiated nickel-manganese-cobalt oxides for cathodes in lithium ion batteries. *Chemical Engineering Science*, 174, 302–310. <https://doi.org/10.1016/j.ces.2017.09.022>
- Apriliyani, E., Arinawati, M., Nisa, S. S., Muzaynha, S. U., & Paramitha, T. (2021). Li-ion Batteries Waste Processing and Utilization Progress: A Review. *Energy Storage Technology and Applications*, 1(1), 25. <https://doi.org/10.20961/esta.v1i1.56801>
- Arora, P., & Zhang, Z. (2004). Battery separators. *Chemical Reviews*, 104(10), 4419–4462. <https://doi.org/10.1021/cr020738u>
- Arora, Y. (2015). *Lithium-Ion Battery Systems: a Process Flow and Systems Framework Designed for Use in the Development of a Lifecycle Energy Model.* May, 107.
- Babanejad, S., Ahmed, H., Andersson, C., Samuelsson, C., Lennartsson, A., Hall, B., & Arnerlöf, L. (2022). High-Temperature Behavior of Spent Li-Ion Battery Black Mass in Inert Atmosphere. *Journal of Sustainable Metallurgy*, 8(1), 566–581. <https://doi.org/10.1007/s40831-022-00514-y>
- Batteries, C. L., & Fowler, M. (2021). Comparative Study of Equivalent Circuit Models Performance. *MDPI Batteries*.
- Bi, H., Zhu, H., Zu, L., Bai, Y., Gao, S., & Gao, Y. (2019). A new model of trajectory in eddy current separation for recovering spent lithium iron phosphate batteries. In *Waste Management* (Vol. 100, pp. 1–9). <https://doi.org/10.1016/j.wasman.2019.08.041>
- Bottom, R. (2008). Thermogravimetric Analysis. *Principles and Applications of Thermal Analysis*, 1(906), 87–118. <https://doi.org/10.1002/9780470697702.ch3>
- Braun, P. V., & Lange, J. G. (2012). Improving lithium-ion battery power and energy densities using novel cathode architectures and materials. *THESIS - U*

Illinois-U/C, 66. <http://www.ideals.illinois.edu/handle/2142/31945>

- Bunaciu, A. A., Udriștioiu, E. gabriela, & Aboul-Enein, H. Y. (2015). X-Ray Diffraction: Instrumentation and Applications. *Critical Reviews in Analytical Chemistry*, 45(4), 289–299. <https://doi.org/10.1080/10408347.2014.949616>
- Chen, H., Gu, S., Guo, Y., Dai, X., Zeng, L., Wang, K., He, C., Dodbiba, G., Wei, Y., & Fujita, T. (2021). Leaching of cathode materials from spent lithium-ion batteries by using a mixture of ascorbic acid and HNO₃. *Hydrometallurgy*, 205(January). <https://doi.org/10.1016/j.hydromet.2021.105746>
- Chen, X., Chen, Y., Zhou, T., Liu, D., Hu, H., & Fan, S. (2015). Hydrometallurgical recovery of metal values from sulfuric acid leaching liquor of spent lithium-ion batteries. *Waste Management*, 38(1), 349–356. <https://doi.org/10.1016/j.wasman.2014.12.023>
- Chen, Y., Liu, N., Hu, F., Ye, L., Xi, Y., & Yang, S. (2018). Thermal treatment and ammoniacal leaching for the recovery of valuable metals from spent lithium-ion batteries. *Waste Management*, 75, 469–476. <https://doi.org/10.1016/j.wasman.2018.02.024>
- Cho, K., Chang, H., Kil, D. S., Park, J., Jang, H. D., & Sohn, H. Y. (2009). Mechanisms of the formation of silica particles from precursors with different volatilities by flame spray pyrolysis. *Aerosol Science and Technology*, 43(9), 911–920. <https://doi.org/10.1080/02786820903025986>
- Connolly, J. R. (2007). Introduction to X-ray Powder Diffraction. *Eps400-002*, 1–9.
- De Lloyd, D. (2000). *Atomic Absorption Spectrophotometer Instrument*. University of West Indies. <http://delloyd.50megs.com/moreinfo/AA.html>
- Ebin, B., Petranikova, M., & Ekberg, C. (2018). Physical separation, mechanical enrichment and recycling-oriented characterization of spent NiMH batteries. *Journal of Material Cycles and Waste Management*, 20(4), 2018–2027. <https://doi.org/10.1007/s10163-018-0751-4>
- Eftekhari, A. (2019). Future Lithium-ion Batteries. In *Future Lithium-ion Batteries*. <https://doi.org/10.1039/9781788016124>
- Ellingham, S. T. D., Thompson, T. J. U., & Islam, M. (2018). Scanning Electron Microscopy–Energy-Dispersive X-Ray (SEM/EDX): A Rapid Diagnostic Tool to Aid the Identification of Burnt Bone and Contested Cremains. *Journal of Forensic Sciences*, 63(2), 504–510. <https://doi.org/10.1111/1556-4029.13541>
- Fan, E., Li, L., Wang, Z., Lin, J., Huang, Y., Yao, Y., Chen, R., & Wu, F. (2020). Sustainable Recycling Technology for Li-Ion Batteries and Beyond: Challenges and Future Prospects. *Chemical Reviews*, 120(14), 7020–7063. <https://doi.org/10.1021/acs.chemrev.9b00535>

- Fu, Y., Jiang, H., Hu, Y., Dai, Y., Zhang, L., & Li, C. (2015). Synergistic enhancement effect of Al doping and highly active facets of LiMn₂O₄ cathode materials for lithium-ion batteries. *Industrial and Engineering Chemistry Research*, 54(15), 3800–3805. <https://doi.org/10.1021/ie504659h>
- Gaines, L. (2018). Lithium-ion battery recycling processes: Research towards a sustainable course. *Sustainable Materials and Technologies*, 17, 1–12. <https://doi.org/10.1016/j.susmat.2018.e00068>
- Gao, S., Liu, W., Fu, D., & Liu, X. (2022). Research progress on recovering the components of spent Li-ion batteries. *New Carbon Materials*, 37(3), 435–460. [https://doi.org/10.1016/S1872-5805\(22\)60605-X](https://doi.org/10.1016/S1872-5805(22)60605-X)
- Georgi-Maschler, T., Friedrich, B., Weyhe, R., Heegn, H., & Rutz, M. (2012). Development of a recycling process for Li-ion batteries. *Journal of Power Sources*, 207, 173–182. <https://doi.org/10.1016/j.jpowsour.2012.01.152>
- Girão, A. V., Caputo, G., & Ferro, M. C. (2017). Application of Scanning Electron Microscopy–Energy Dispersive X-Ray Spectroscopy (SEM-EDS). *Comprehensive Analytical Chemistry*, 75, 153–168. <https://doi.org/10.1016/bs.coac.2016.10.002>
- Goodenough, J. B., & Kim, Y. (2010). Challenges for rechargeable Li batteries. In *Chemistry of Materials* (Vol. 22, Issue 3, pp. 587–603). <https://doi.org/10.1021/cm901452z>
- Hanisch, C., Loellhoeffel, T., Diekmann, J., Markley, K. J., Haselrieder, W., & Kwade, A. (2015). Recycling of lithium-ion batteries: A novel method to separate coating and foil of electrodes. *Journal of Cleaner Production*, 108, 301–311. <https://doi.org/10.1016/j.jclepro.2015.08.026>
- Hannan, M. A., Hoque, M. M., Hussain, A., Yusof, Y., & Ker, P. J. (2018). State-of-the-Art and Energy Management System of Lithium-Ion Batteries in Electric Vehicle Applications: Issues and Recommendations. In *IEEE Access* (Vol. 6, Issue March, pp. 19362–19378). <https://doi.org/10.1109/ACCESS.2018.2817655>
- Hou, X., Amais, R. S., Jones, B. T., & Donati, G. L. (2017). Inductively Coupled Plasma Optical Emission Spectrometry. *Encyclopedia of Plasma Technology*, 655–678. <https://doi.org/10.1081/e-eplt-120052737>
- Inan, T. Y. (2017). Thermoplastic-based nanoblends: Preparation and characterizations. *Recent Developments in Polymer Macro, Micro and Nano Blends: Preparation and Characterisation*, 17–56. <https://doi.org/10.1016/B978-0-08-100408-1.00002-9>
- Jatmiko, W. A. (2019). *Pengaruh Rasio Jumlah Dan Diameter Bola Baja Dalam Proses Sintesis Material Dengan Shaker Milling Terhadap Ukuran Partikel Kaolin*.
- Julinawati, J., Marlina, M., Nasution, R., & Sheilatina, S. (2015). Applying Sem-

- edx Techniques to Identifying the Types of Mineral of Jades (Giok) Takengon, Aceh. *Jurnal Natural Unsyiah*, 15(2), 116128.
- Jung, J. C. Y., Sui, P. C., & Zhang, J. (2021). A review of recycling spent lithium-ion battery cathode materials using hydrometallurgical treatments. *Journal of Energy Storage*, 35(October 2020). <https://doi.org/10.1016/j.est.2020.102217>
- Khan, K. F. (2019). Application, principle and operation of ICP-OES in pharmaceutical analysis. *The Pharma Innovation Journal*, 8(11), 281–282.
- Kim, S., Bang, J., Yoo, J., Shin, Y., Bae, J., Jeong, J., Kim, K., Dong, P., & Kwon, K. (2021). A comprehensive review on the pretreatment process in lithium-ion battery recycling. *Journal of Cleaner Production*, 294. <https://doi.org/10.1016/j.jclepro.2021.126329>
- Lee, C. K., & Rhee, K. I. (2002). Preparation of LiCoO₂ from spent lithium-ion batteries. *Journal of Power Sources*, 109(1), 17–21. [https://doi.org/10.1016/S0378-7753\(02\)00037-X](https://doi.org/10.1016/S0378-7753(02)00037-X)
- Lee, C. K., & Rhee, K. I. (2003). Reductive leaching of cathodic active materials from lithium ion battery wastes. *Hydrometallurgy*, 68(1–3), 5–10. [https://doi.org/10.1016/S0304-386X\(02\)00167-6](https://doi.org/10.1016/S0304-386X(02)00167-6)
- Lee, M. J., Lee, S., Oh, P., Kim, Y., & Cho, J. (2014). High performance LiMn₂O₄ cathode materials grown with epitaxial layered nanostructure for Li-Ion batteries. *Nano Letters*, 14(2), 993–999. <https://doi.org/10.1021/nl404430e>
- Lengyel, M., Atlas, G., Elhassid, D., Luo, P. Y., Zhang, X., Belharouak, I., & Axelbaum, R. L. (2014). Effects of synthesis conditions on the physical and electrochemical properties of Li_{1.2}Mn_{0.54}Ni_{0.13}Co_{0.13}O₂ prepared by spray pyrolysis. *Journal of Power Sources*, 262, 286–296. <https://doi.org/10.1016/j.jpowsour.2014.03.113>
- Lengyel, M., Elhassid, D., Atlas, G., Moller, W. T., & Axelbaum, R. L. (2014). Development of a scalable spray pyrolysis process for the production of non-hollow battery materials. *Journal of Power Sources*, 266, 175–178. <https://doi.org/10.1016/j.jpowsour.2014.04.143>
- Lewis, A., Chivavava, J., du Plessis, J., Smith, D., & Smith, J. L. (2021). Innovative Reactors for Recovery of Rare Earth Elements (REEs). In *Minerals, Metals and Materials Series* (Issue February). https://doi.org/10.1007/978-3-030-65489-4_14
- Li, S., Ren, Y., Biswas, P., & Tse, S. D. (2016). Flame aerosol synthesis of nanostructured materials and functional devices: Processing, modeling, and diagnostics. In *Progress in Energy and Combustion Science* (Vol. 55, pp. 1–59). <https://doi.org/10.1016/j.pecs.2016.04.002>
- Life, P., & Sciences, A. (2004). Concepts, Instrumentation and Techniques in Inductively Coupled Plasma Optical Emission Spectroscopy. *Emission Spectroscopy*, 1–22.

- Liu, T., Chen, J., Li, H., & Li, K. (2020). An integrated process for the separation and recovery of valuable metals from the spent LiNi0.5Co0.2Mn0.3O2 cathode materials. *Separation and Purification Technology*, 245(December 2019). <https://doi.org/10.1016/j.seppur.2020.116869>
- Liu, Y., Yu, H., Wang, Y., Tang, D., Qiu, W., Li, W., & Li, J. (2022). Microwave hydrothermal renovating and reassembling spent lithium cobalt oxide for lithium-ion battery. *Waste Management*, 143(March), 186–194. <https://doi.org/10.1016/j.wasman.2022.02.024>
- Madero, J. E., Li, J., Shen, K.-Y., Wojtak, J., & Axelbaum, R. L. (2021). An approach to low-temperature flame spray pyrolysis for the synthesis of temperature-sensitive materials: Application to Li_{1.2}Mn0.54Ni0.13Co0.13O₂. *Applications in Energy and Combustion Science*, 5(July 2020), 100020. <https://doi.org/10.1016/j.jaebs.2020.100020>
- Maiyalagan, T., & Elumalai, P. (2020). Rechargeable Lithium-ion Batteries: Trends and Progress in Electric Vehicles. In *Rechargeable Lithium-ion Batteries: Trends and Progress in Electric Vehicles*. <https://doi.org/10.1201/9781351052702>
- Makwarimba, C. P., Tang, M., Peng, Y., Lu, S., Zheng, L., Zhao, Z., & Zhen, A. (2022). Assessment of recycling methods and processes for lithium-ion batteries. *IScience*, 25(5), 104321. <https://doi.org/10.1016/j.isci.2022.104321>
- Malik, M., Chan, K. H., & Azimi, G. (2021). Effect of Synthesis Method on the Electrochemical Performance of LiNiMnCoO (NMC) Cathode for Li-Ion Batteries: A Review. *Minerals, Metals and Materials Series*, 37–46. https://doi.org/10.1007/978-3-030-65489-4_5
- Masaki Yoshio, H. N. (2009). Lithium-Ion Batteries, Chapter 2. In *Lithium-Ion Batteries*. <https://link.springer.com/content/pdf/10.1007/978-0-387-34445-4.pdf>
- Meshram, P., Pandey, B. D., & Mankhand, T. R. (2015). Recovery of valuable metals from cathodic active material of spent lithium ion batteries: Leaching and kinetic aspects. *Waste Management*, 45, 306–313. <https://doi.org/10.1016/j.wasman.2015.05.027>
- Miao, Y., Hynan, P., Von Jouanne, A., & Yokochi, A. (2019). Current li-ion battery technologies in electric vehicles and opportunities for advancements. *Energies*, 12(6), 1–20. <https://doi.org/10.3390/en12061074>
- Mikolajczak, C., Kahn, M., White, K., & Long, R. T. (2011). *Lithium-Ion Battery Failures*. July, 43–70. https://doi.org/10.1007/978-1-4614-3486-3_4
- Myung, S. T., Maglia, F., Park, K. J., Yoon, C. S., Lamp, P., Kim, S. J., & Sun, Y. K. (2017). Nickel-Rich Layered Cathode Materials for Automotive Lithium-Ion Batteries: Achievements and Perspectives. *ACS Energy Letters*, 2(1), 196–223. <https://doi.org/10.1021/acsenergylett.6b00594>

- Nasution, M. (2021). Muslih Nasution Karakteristik Baterai Sebagai Penyimpan Energi Listrik Secara Spesifik. *Cetak) Journal of Electrical Technology*, 6(1), 35–40.
- Nengsih, N. Y., Putri, F. H., Perceka, R. M., & RAMADANA, R. M. (2013). Biofungisida Nanopartikel Perak dari Lactobacillus delbrueckii subsp. bulgaricus. *Journal of Chemical Information and Modeling*, 53(9), 1689–1699.
- Nitta, N., & Yushin, G. (2014). High-capacity anode materials for lithium-ion batteries: Choice of elements and structures for active particles. *Particle and Particle Systems Characterization*, 31(3), 317–336. <https://doi.org/10.1002/ppsc.201300231>
- Nunes, D., Pimentel, A., Santos, L., Barquinha, P., Pereira, L., Fortunato, E., & Martins, R. (2019). Synthesis, design, and morphology of metal oxide nanostructures. In *Metal Oxide Nanostructures* (pp. 21–57). Elsevier. <https://doi.org/10.1016/b978-0-12-811512-1.00002-3>
- Or, T., Gourley, S. W. D., Kaliyappan, K., Yu, A., & Chen, Z. (2020). Recycling of mixed cathode lithium-ion batteries for electric vehicles: Current status and future outlook. *Carbon Energy*, 2(1), 6–43. <https://doi.org/10.1002/cey.2.29>
- Paul, B. N., Chanda, S., Das, S., & Giri, S. S. (2016). Mineral Assay in Atomic Absorption Spectroscopy Mineral Assay in Atomic Absorption Spectroscopy. *The Beats of Natural Sciences*, 1(4), 1–17.
- Philippe, B. (2013). *Insights in Li-ion Battery Interfaces through Photoelectron Spectroscopy Depth Profiling*. <http://urn.kb.se/resolve?urn=urn:nbn:se:uu:diva-197250>
- Pişkin, B., Uygur, C. S., & Aydinol, M. K. (2020). Morphology effect on electrochemical properties of doped (W and Mo) 622NMC, 111NMC, and 226NMC cathode materials. *International Journal of Hydrogen Energy*, 45(14), 7874–7880. <https://doi.org/10.1016/j.ijhydene.2019.07.249>
- Ponnamma, D., Sadashivuni, K. K., Cabibihan, J. J., & Al-Maadeed, M. A. A. (2021). Front Matter. In *Smart Polymer Nanocomposites* (pp. i–ii). <https://doi.org/10.1016/b978-0-12-819961-9.09991-6>
- Rahmawati, M., & Jihad, A. (2019). *Ulasan Pengaruh Metode Sintesis dan Agen Penghelat Terhadap Performa Baterai Litium NMC*. January 2021, 140–148. <https://www.researchgate.net/publication/348834740>
- Rajisha, K. R., Deepa, B., Pothan, L. A., & Thomas, S. (2011). Thermomechanical and spectroscopic characterization of natural fibre composites. *Interface Engineering of Natural Fibre Composites for Maximum Performance*, 241–274. <https://doi.org/10.1533/9780857092281.2.241>
- RESEARCHINTERFACES. (2018). *What do we know about next-generation NMC 811 cathode?* <https://researchinterfaces.com/know-next-generation-nmc-811->

cathode/

- Roji, A. M. M., Jiji, G., & Raj, A. B. T. (2017). A retrospect on the role of piezoelectric nanogenerators in the development of the green world. *RSC Advances*, 7(53), 33642–33670. <https://doi.org/10.1039/c7ra05256a>
- Ross, B. J., Leresche, M., Liu, D., Durham, J. L., Dahl, E. U., & Lipson, A. L. (2020). Mitigating the Impact of Thermal Binder Removal for Direct Li-Ion Battery Recycling. *ACS Sustainable Chemistry and Engineering*, 8(33), 12511–12515. <https://doi.org/10.1021/acssuschemeng.0c03424>
- Rushendra Paravasthu. (2012). SYNTHESIS AND CHARACTERIZATION OF LITHIUM-ION CATHODE MATERIALS IN THE SYSTEM $(1-x-y)LiNi1/3Mn1/3Co1/3O2 \cdot xLi2MnO3 \cdot yLiCoO2$. In *Department of Mechanical Engineering In* (Vol. 7, Issue June).
- Sari, A. M. M. (2018). *Rccover Perak Menggunakan Metode Leaching Pelarut Tiosulfat dari Logam Perak Murni*.
- Shuva, M. A. H., & Kurny, A. S. W. (2013). Dissolution Kinetics of Cathode of Spent Lithium Ion Battery in Hydrochloric Acid Solutions. *Journal of The Institution of Engineers (India): Series D*, 94(1), 13–16. <https://doi.org/10.1007/s40033-013-0018-0>
- Sides, C. R., Li, N., Patrissi, C. J., Scrosati, B., & Martin, C. R. (2002). Nanoscale materials for lithium-ion batteries. In *MRS Bulletin* (Vol. 27, Issue 8, pp. 1–4). <https://doi.org/10.1557/mrs2002.195>
- Sojka, R., Pan, Q., & Billmann, L. (2020). Comparative study of Li-ion battery recycling processes. *ACCUREC Recycling GmbH*.
- Solorio, H. (2021). *Hydrometallurgical recovery of critical metals from NMC 523 powders and its associated environmental impacts* (Issue December).
- Suryono, E., Margono, B., & Kristiawan, Y. Y. (2017). KONDISI OPTIMUM FLAME ASSISTED SPRAY PYROLISIS PADA PEMBUATAN LITHIUM IRON PHOSPHATE (LIFEPO₄) SEBAGAI MATERIAL KATODA BATERAI LITIUM ION. *Prosiding SNATIF Ke-4 Tahun 2017*, 4, 629–636. <https://jurnal.umk.ac.id/index.php/SNA/article/view/1402>
- Syvitski, J. P. M. (1991). Principles, methods, and application of particle size analysis. *Principles, Methods, and Application of Particle Size Analysis*, April. <https://doi.org/10.1139/t92-115>
- Thackeray, M. M., David, W. I. F., Bruce, P. G., & Goodenough, J. B. (1983). Lithium insertion into manganese spinels. *Materials Research Bulletin*, 18(4), 461–472. [https://doi.org/10.1016/0025-5408\(83\)90138-1](https://doi.org/10.1016/0025-5408(83)90138-1)
- Vanderbruggen, A., Salces, A., Ferreira, A., Rudolph, M., & Serna-Guerrero, R. (2022). Improving Separation Efficiency in End-of-Life Lithium-Ion Batteries Flotation Using Attrition Pre-Treatment. *Minerals*, 12(1).

<https://doi.org/10.3390/min12010072>

- Voronov, V. A., Shvetsov, A. O., Gubin, S. P., Cheglakov, A. V., Kornilov, D. Y., Karaseva, A. S., Krasnova, E. S., & Tkachev, S. V. (2016). Effect of the preparation method of the cathode material LiNi_{0.33}Mn_{0.33}Co_{0.33}O₂ on the electrochemical characteristics of a lithium ion cell. *Russian Journal of Inorganic Chemistry*, 61(9), 1153–1159. <https://doi.org/10.1134/S0036023616090217>
- Vyazovkin, S. (2012). Thermogravimetric Analysis: Characterisation of Materials. *Characterization of Materials*, 344–362. <https://onlinelibrary.wiley.com/doi/abs/10.1002/0471266965.com029.pub2>
- Wang, R. C., Lin, Y. C., & Wu, S. H. (2009). A novel recovery process of metal values from the cathode active materials of the lithium-ion secondary batteries. *Hydrometallurgy*, 99(3–4), 194–201. <https://doi.org/10.1016/j.hydromet.2009.08.005>
- Warner, J. T. (2019). Lithium-ion battery chemistries: A primer. In *Lithium-Ion Battery Chemistries: A Primer*. <https://doi.org/10.1016/C2017-0-02140-7>
- Wibisono, D. K. (2017). *EKSTRAKSI Ni, Fe, Co DAN Mn DARI BIJIH LATERIT MELALUI PELINDIAN MENGGUNAKAN ASAM NITRAT*.
- Writer, B. (2019). Lithium-Ion Batteries - A Machine-Generated Summary of Current Research. In *Springer Nature*. http://link.springer.com/10.1007/978-3-030-16800-1_3
- Xu, B., Qian, D., Wang, Z., & Meng, Y. S. (2012). Recent progress in cathode materials research for advanced lithium ion batteries. *Materials Science and Engineering R: Reports*, 73(5–6), 51–65. <https://doi.org/10.1016/j.mser.2012.05.003>
- Yao, L. P., Zeng, Q., Qi, T., & Li, J. (2020). An environmentally friendly discharge technology to pretreat spent lithium-ion batteries. *Journal of Cleaner Production*, 245. <https://doi.org/10.1016/j.jclepro.2019.118820>
- Yu, W., Guo, Y., Shang, Z., Zhang, Y., & Xu, S. (2022). A review on comprehensive recycling of spent power lithium-ion battery in China. *ETransportation*, 11. <https://doi.org/10.1016/j.etran.2022.100155>
- Yuan, X., Liu, H., & Zhang, J. (2016). Lithium-ion batteries: Advanced materials and technologies. In *Lithium-Ion Batteries: Advanced Materials and Technologies* (Issue July).
- Zang, G., Zhang, J., Xu, S., & Xing, Y. (2021). Techno-economic analysis of cathode material production using flame-assisted spray pyrolysis. *Energy*, 218, 119504. <https://doi.org/10.1016/j.energy.2020.119504>
- Zhang, J., Muldoon, V. L., & Deng, S. (2022). Accelerated synthesis of Li(Ni_{0.8}Co_{0.1}Mn_{0.1})O₂ cathode materials using flame-assisted spray

- pyrolysis and additives. *Journal of Power Sources*, 528(December 2021). <https://doi.org/10.1016/j.jpowsour.2022.231244>
- Zhang, J., Singh, G., Xu, S., Hamad, K., Ratner, A., & Xing, Y. (2020). A scalable approach of using biomass derived glycerol to synthesize cathode materials for lithium-ion batteries. *Journal of Cleaner Production*, 271. <https://doi.org/10.1016/j.jclepro.2020.122518>
- Zhang, S. (2007). Characterization of high tap density Li[Ni_{1/3}Co_{1/3}Mn_{1/3}]O₂ cathode material synthesized via hydroxide co-precipitation. *Electrochimica Acta*, 52(25), 7337–7342. <https://doi.org/10.1016/j.electacta.2007.06.015>
- Zhang, W., Xu, C., He, W., Li, G., & Huang, J. (2018). A review on management of spent lithium ion batteries and strategy for resource recycling of all components from them. *Waste Management and Research*, 36(2), 99–112. <https://doi.org/10.1177/0734242X17744655>
- Zheng, Y., Wang, S., Gao, Y., Yang, T., Zhou, Q., Song, W., Zeng, C., Wu, H., Feng, C., & Liu, J. (2019). Lithium Nickel Cobalt Manganese Oxide Recovery via Spray Pyrolysis Directly from the Leachate of Spent Cathode Scraps. *ACS Applied Energy Materials*, 2(9), 6952–6959. <https://doi.org/10.1021/acsaem.9b01647>