

References

- Ahn, N. K., Shim, H. W., Kim, D. W., & Swain, B. (2020). Valorization of waste NiMH battery through recovery of critical rare earth metal: A simple recycling process for the circular economy. *Waste Manag*, 104, 254-261. DOI:10.1016/j.wasman.2020.01.014
- Albers, J., & Meissner, E. (2017). 6 - Automotive absorptive glass-mat lead-acid batteries: State of the art. In J. Garche, E. Karden, P. T. Moseley, & D. A. J. Rand (Eds.), *Lead-Acid Batteries for Future Automobiles* (pp. 185-211). Elsevier. DOI:10.1016/B978-0-444-63700-0.00006-4
- An, W., Gao, B., Mei, S., Xiang, B., Fu, J., Wang, L., . . . Huo, K. (2019). Scalable synthesis of ant-nest-like bulk porous silicon for high-performance lithium-ion battery anodes. *Nat Commun*, 10(1), 1447. DOI:10.1038/s41467-019-09510-5
- Aneke, M., & Wang, M. (2016). Energy storage technologies and real life applications – A state of the art review. *Applied Energy*, 179, 350-377. DOI:10.1016/j.apenergy.2016.06.097
- Asano, T., Sakai, A., Ouchi, S., Sakaida, M., Miyazaki, A., & Hasegawa, S. (2018). Solid halide electrolytes with high lithium-ion conductivity for application in 4 V class bulk-type all-solid-state batteries. *Advanced Materials*, 30(44), 1803075.
- Azimi, N., Weng, W., Takoudis, C., & Zhang, Z. (2013). Improved performance of lithium-sulfur battery with fluorinated electrolyte. *Electrochemistry Communications*, 37, 96-99. DOI:10.1016/j.elecom.2013.10.020
- Baker, J. (2008). New technology and possible advances in energy storage. *Energy Policy*, 36(12), 4368-4373. DOI:10.1016/j.enpol.2008.09.040
- Ballantyne, A. D., Hallett, J. P., Riley, D. J., Shah, N., & Payne, D. J. (2018). Lead acid battery recycling for the twenty-first century. *R Soc Open Sci*, 5(5), 171368. DOI:10.1098/rsos.171368
- Banerjee, A., Ziv, B., Shilina, Y., Levi, E., Luski, S., & Aurbach, D. (2017). Single-Wall Carbon Nanotube Doping in Lead-Acid Batteries: A New Horizon. *ACS Appl Mater Interfaces*, 9(4), 3634-3643. DOI:10.1021/acsami.6b13377
- Berndt, D. (2001). Valve-regulated lead-acid batteries. *Journal of Power Sources*, 100(1-2), 29-46. DOI:10.1016/S0378-7753(01)00881-3
- Berndt, D. (2006). VRLA batteries, advances and limitations. *Journal of Power Sources*, 154(2), 509-517. DOI:10.1016/j.jpowsour.2005.10.083
- Borah, R., Hughson, F. R., Johnston, J., & Nann, T. (2020). On battery materials and methods. *Materials Today Advances*, 6, 100046. DOI:10.1016/j.mtadv.2019.100046
- Budde-Meiwes, H., Drillkens, J., Lunz, B., Muennix, J., Rothgang, S., Kowal, J., & Sauer, D. U. (2013). A review of current automotive battery technology and future prospects. *Proceedings of the Institution of Mechanical Engineers Part D-Journal of Automobile Engineering*, 227(5), 761-776. DOI:10.1177/0954407013485567

Cao, Q., Zhang, H. P., Wang, G. J., Xia, Q., Wu, Y. P., & Wu, H. Q. (2007). A novel carbon-coated LiCoO_2 as cathode material for lithium ion battery. *Electrochemistry Communications*, 9(5), 1228-1232. DOI:10.1016/j.elecom.2007.01.017

Cao, Z. H., Fang, T., Hou, X. Y., & Niu, J. J. (2019). In-situ preparation of nitrogen-doped carbon-modified lithium vanadium phosphate fibers with mesoporous nanostructure for lithium energy storage. *Ceramics International*, 45(11), 14474-14478. DOI:10.1016/j.ceramint.2019.04.198

Chang, D.-R., Lee, S.-H., Kim, S.-W., & Kim, H.-T. (2002). Binary electrolyte based on tetra(ethylene glycol) dimethyl ether and 1,3-dioxolane for lithium-sulfur battery. *Journal of Power Sources*, 112(2), 452-460. DOI:10.1016/s0378-7753(02)00418-4

Chang, Y., Mao, X. X., Zhao, Y. F., Feng, S. L., Chen, H. Y., & Finlow, D. (2009). Lead-acid battery use in the development of renewable energy systems in China. *Journal of Power Sources*, 191(1), 176-183. DOI:10.1016/j.jpowsour.2009.02.030

Chen, X., Du, K., Lai, Y., Shang, G., Li, H., Xiao, Z., . . . Zhang, Z. (2017). In-situ carbon-coated $\text{Na}_2\text{FeP}_2\text{O}_7$ anchored in three-dimensional reduced graphene oxide framework as a durable and high-rate sodium-ion battery cathode. *Journal of Power Sources*, 357, 164-172. DOI:10.1016/j.jpowsour.2017.04.075

Chen, X. B., Du, K., Lai, Y. Q., Shang, G. Z., Li, H. X., Xiao, Z. W., . . . Zhang, Z. A. (2017). In-situ carbon-coated $\text{Na}_2\text{FeP}_2\text{O}_7$ anchored in three-dimensional reduced graphene oxide framework as a durable and high-rate sodium-ion battery cathode. *Journal of Power Sources*, 357, 164-172. DOI:10.1016/j.jpowsour.2017.04.075

Chen, Y. M., Li, X. Y., Park, K., Lu, W., Wang, C., Xue, W. J., . . . Goodenough, J. B. (2017). Nitrogen-Doped Carbon for Sodium-Ion Battery Anode by Self-Etching and Graphitization of Bimetallic MOF-Based Composite. *Chem*, 3(1), 152-163. DOI:10.1016/j.chempr.2017.05.021

Cheng, S. H. S., He, K. Q., Liu, Y., Zha, J. W., Kamruzzaman, M., Ma, R. L. W., . . . Chung, C. Y. (2017). Electrochemical performance of all-solid-state lithium batteries using inorganic lithium garnets particulate reinforced PEO/ LiClO_4 electrolyte. *Electrochimica Acta*, 253, 430-438. DOI:10.1016/j.electacta.2017.08.162

Chi, S. S., Liu, Y. C., Zhao, N., Guo, X. X., Nan, C. W., & Fan, L. Z. (2019). Solid polymer electrolyte soft interface layer with 3D lithium anode for all-solid-state lithium batteries. *Energy Storage Materials*, 17, 309-316. DOI:10.1016/j.ensm.2018.07.004

Clitchey, L. (2020). *Why lithium-sulphur batteries are taking so long to be used commercially*. Retrieved 07 July from <https://www.electropages.com/blog/2020/01/why-lithium-sulphur-batteries-are-taking-so-long-be-used-commercially>

Coelho, J., Pokle, A., Park, S. H., McEvoy, N., Berner, N. C., Duesberg, G. S., & Nicolosi, V. (2017). Lithium Titanate/Carbon Nanotubes Composites Processed by Ultrasound Irradiation as Anodes for Lithium Ion Batteries. *Sci Rep*, 7(1), 7614. DOI:10.1038/s41598-017-06908-3

Cultu, M. (2009). Batteries and Their Chemistry. In *Energy Storage Systems* (1 ed., Vol. 2, pp. 42-63). Eolss Publishers.

Ding, J. J., Zhou, Y. N., Sun, Q., & Fu, Z. W. (2012). Cycle performance improvement of NaCrO₂ cathode by carbon coating for sodium ion batteries. *Electrochemistry Communications*, 22, 85-88. DOI:10.1016/j.elecom.2012.06.001

Ding, Y. L., Cano, Z. P., Yu, A. P., Lu, J., & Chen, Z. W. (2019). Automotive Li-Ion Batteries: Current Status and Future Perspectives. *Electrochemical Energy Reviews*, 2(1), 1-28. DOI:10.1007/s41918-018-0022-z

Dirican, M., Yan, C. Y., Zhu, P., & Zhang, X. W. (2019). Composite solid electrolytes for all-solid-state lithium batteries. *Materials Science & Engineering R-Reports*, 136, 27-46. DOI:10.1016/j.mser.2018.10.004

Divya, S., & Nann, T. (2021). High Voltage Carbon-Based Cathodes for Non-Aqueous Aluminium-Ion Batteries. *ChemElectroChem*, 8(3), 492-499.

Donmez, K. B., Gencten, M., & Sahin, Y. (2018). A performance comparison of protective silicate-coated lead and non-coated lead electrodes in various kind electrolytes of gel valve-regulated lead-acid battery. *Ionics*, 24(11), 3655-3664. DOI:10.1007/s11581-018-2551-1

Dönmez, K. B., Gençten, M., & Şahin, Y. (2017). A novel polysiloxane-based polymer as a gel agent for gel-VRLA batteries. *Ionics*, 23(8), 2077-2089. DOI:10.1007/s11581-017-2040-y

Duehnen, S., Betz, J., Kolek, M., Schmuck, R., Winter, M., & Placke, T. (2020). Toward green battery cells: perspective on materials and technologies. *Small Methods*, 4(7), 2000039.

El Haj Assad, M., Khosravi, A., Malekan, M., Rosen, M. A., & Nazari, M. A. (2021). Chapter 14 - Energy storage. In M. E. H. Assad & M. A. Rosen (Eds.), *Design and Performance Optimization of Renewable Energy Systems* (pp. 205-219). Academic Press. DOI:10.1016/B978-0-12-821602-6.00016-X

El Kharbachi, A., Zavorotynska, O., Latroche, M., Cuevas, F., Yartys, V., & Fichtner, M. (2020). Exploits, advances and challenges benefiting beyond Li-ion battery technologies. *Journal of Alloys and Compounds*, 817, 153261. DOI:10.1016/j.jallcom.2019.153261

Elia, G. A., Ducros, J. B., Sotta, D., Delhorbe, V., Brun, A., Marquardt, K., & Hahn, R. (2017). Polyacrylonitrile Separator for High-Performance Aluminum Batteries with Improved Interface Stability. *ACS Appl Mater Interfaces*, 9(44), 38381-38389. DOI:10.1021/acsami.7b09378

Espinosa, D. C. R., & Tenório, J. A. S. (2006). Recycling of nickel-cadmium batteries using coal as reducing agent. *Journal of Power Sources*, 157(1), 600-604. DOI:10.1016/j.jpowsour.2005.07.061

Fang, Y., Xiao, L., Qian, J., Ai, X., Yang, H., & Cao, Y. (2014). Mesoporous amorphous FePO₄ nanospheres as high-performance cathode material for sodium-ion batteries. *Nano Lett*, 14(6), 3539-3543. DOI:10.1021/nl501152f

Feng, F., Geng, M., & Northwood, D. O. (2001). Electrochemical behaviour of intermetallic-based metal hydrides used in Ni/metal hydride (MH) batteries: a review. *International Journal of Hydrogen Energy*, 26(7), 725-734. DOI:10.1016/S0360-3199(00)00127-0

Gaines, L. (2018). Lithium-ion battery recycling processes: Research towards a sustainable course. *Sustainable Materials and Technologies*, 17, e00068. DOI:10.1016/j.susmat.2018.e00068

Galushkin, D. N., Yazvinskaya, N. N., & Galushkin, N. E. (2008). Investigation of the process of thermal runaway in nickel-cadmium accumulators. *Journal of Power Sources*, 177(2), 610-616. DOI:10.1016/j.jpowsour.2007.11.090

Galushkin, N. E., Yazvinskaya, N. N., & Galushkin, D. N. (2016). Thermal runaway as a new high-performance method of desorption of hydrogen from hydrides. *International Journal of Hydrogen Energy*, 41(33), 14813-14819. DOI:10.1016/j.ijhydene.2016.07.050

Geng, L. X., Lv, G. C., Xing, X. B., & Guo, J. C. (2015). Reversible Electrochemical Intercalation of Aluminum in Mo₆S₈. *Chemistry of Materials*, 27(14), 4926-4929. DOI:10.1021/acs.chemmater.5b01918

Goodenough, J. B. (2014). Electrochemical energy storage in a sustainable modern society [10.1039/C3EE42613K]. *Energy & Environmental Science*, 7(1), 14-18. DOI:10.1039/c3ee42613k

Guo, P., Song, H. H., & Chen, X. H. (2009). Electrochemical performance of graphene nanosheets as anode material for lithium-ion batteries. *Electrochemistry Communications*, 11(6), 1320-1324. DOI:10.1016/j.elecom.2009.04.036

Guo, Y. (2009). SAFETY | Thermal Runaway. In J. Garche (Ed.), *Encyclopedia of Electrochemical Power Sources* (pp. 241-253). Elsevier. DOI:10.1016/B978-044452745-5.00394-4

Gyenge, E., Jung, J., & Mahato, B. (2003). Electroplated reticulated vitreous carbon current collectors for lead-acid batteries: opportunities and challenges. *Journal of Power Sources*, 113(2), 388-395. DOI:10.1016/s0378-7753(02)00553-0

Hammond, G. P., & Hazeldine, T. (2015). Indicative energy technology assessment of advanced rechargeable batteries. *Applied Energy*, 138, 559-571. DOI:10.1016/j.apenergy.2014.10.037

Hao, Y.-j., Lai, Q.-y., Liu, D.-q., Xu, Z.-u., & Ji, X.-y. (2005). Synthesis by citric acid sol-gel method and electrochemical properties of Li₄Ti₅O₁₂ anode material for lithium-ion battery. *Materials Chemistry and Physics*, 94(2-3), 382-387. DOI:10.1016/j.matchemphys.2005.05.019

Hou, H., Gan, B., Gong, Y., Chen, N., & Sun, C. (2016). P2-Type Na_{0.67}Ni_{0.23}Mg_{0.1}Mn_{0.67}O₂ as a High-Performance Cathode for a Sodium-Ion Battery. *Inorg Chem*, 55(17), 9033-9037. DOI:10.1021/acs.inorgchem.6b01515

Hu, Y., Chen, W., Lei, T. Y., Jiao, Y., Wang, H. B., Wang, X. P., . . . Xiong, J. (2020). Graphene quantum dots as the nucleation sites and interfacial regulator to suppress lithium

dendrites for high-loading lithium-sulfur battery. *Nano Energy*, 68, 104373. DOI:10.1016/j.nanoen.2019.104373

Huang, K., Li, J., & Xu, Z. (2010). Characterization and recycling of cadmium from waste nickel-cadmium batteries. *Waste Manag*, 30(11), 2292-2298. DOI:10.1016/j.wasman.2010.05.010

Hwang, J. Y., Myung, S. T., & Sun, Y. K. (2017). Sodium-ion batteries: present and future. *Chem Soc Rev*, 46(12), 3529-3614. DOI:10.1039/c6cs00776g

Ilika. (2021). *Stereax® M50 – Miniature Solid State Battery for MedTech*. Retrieved 28 September from <https://www.ilika.com/images/uploads/downloads/STEREAX-M50-SPECIFICATION-V1.1.pdf>

Jinisha, B., Anilkumar, K., Manoj, M., Pradeep, V. S., & Jayalekshmi, S. (2017). Development of a novel type of solid polymer electrolyte for solid state lithium battery applications based on lithium enriched poly (ethylene oxide) (PEO)/poly (vinyl pyrrolidone) (PVP) blend polymer. *Electrochimica Acta*, 235, 210-222. DOI:10.1016/j.electacta.2017.03.118

Jun, W., Bing, C., Qingqing, L., Ailin, H., Xiaoying, L., & Qi, J. (2020). Preparing a composite including SnS₂, carbon nanotubes and S and using as cathode material of lithium-sulfur battery. *Scripta Materialia*, 177, 208-213. DOI:10.1016/j.scriptamat.2019.10.038

Kang, B., & Ceder, G. (2009). Battery materials for ultrafast charging and discharging. *Nature*, 458(7235), 190-193.

Karami, H., Shamsipur, M., Ghasemi, S., & Mousavi, M. F. (2007). Lead-acid bipolar battery assembled with primary chemically formed positive pasted electrode. *Journal of Power Sources*, 164(2), 896-904. DOI:10.1016/j.jpowsour.2006.11.034

Ko, J. M., Min, B. G., Kim, D. W., Ryu, K. S., Kim, K. M., Lee, Y. G., & Chang, S. H. (2004). Thin-film type Li-ion battery, using a polyethylene separator grafted with glycidyl methacrylate. *Electrochimica Acta*, 50(2-3), 367-370. DOI:10.1016/j.electacta.2004.01.127

Kohler, U., Antonius, C., & Bauerlein, P. (2004). Advances in alkaline batteries. *Journal of Power Sources*, 127(1-2), 45-52. DOI:10.1016/j.jpowsour.2003.09.006

Kong, L. L., Zhang, Z., Zhang, Y. Z., Liu, S., Li, G. R., & Gao, X. P. (2016). Porous Carbon Paper as Interlayer to Stabilize the Lithium Anode for Lithium-Sulfur Battery. *ACS Appl Mater Interfaces*, 8(46), 31684-31694. DOI:10.1021/acsami.6b11188

Koohi-Fayegh, S., & Rosen, M. A. (2020). A review of energy storage types, applications and recent developments. *Journal of Energy Storage*, 27, 101047. DOI:10.1016/j.est.2019.101047

Kritzer, P. (2004). Separators for nickel metal hydride and nickel cadmium batteries designed to reduce self-discharge rates. *Journal of Power Sources*, 137(2), 317-321. DOI:10.1016/j.jpowsour.2004.05.052

Kumar, V., Rao, P. V. K., & Rawal, A. (2017). Amplification of electrolyte uptake in the absorptive glass mat (AGM) separator for valve regulated lead acid (VRLA) batteries. *Journal of Power Sources*, 341, 19-26. DOI:10.1016/j.jpowsour.2016.11.027

Kurzweil, P. (2009). HISTORY | Secondary Batteries. In J. Garche (Ed.), *Encyclopedia of Electrochemical Power Sources* (pp. 565-578). Elsevier. DOI:10.1016/B978-044452745-5.00004-6

Lam, L. T., Louey, R., Haigh, N. P., Lim, O. V., Vella, D. G., Phyland, C. G., . . . Kano, T. (2007). VRLA ultrabattery for high-rate partial-state-of-charge operation. *Journal of Power Sources*, 174(1), 16-29. DOI:10.1016/j.jpowsour.2007.05.047

Lambert, D. W. H., Greenwood, P. H. J., & Reed, M. C. (2002). Advances in gelled-electrolyte technology for valve-regulated lead-acid batteries. *Journal of Power Sources*, 107(2), 173-179. DOI:10.1016/S0378-7753(01)01072-2

Lang, X. S., Wang, D. L., & Zhu, J. S. (2014). Modified titanium foil's surface by high temperature carbon sintering method as the substrate for bipolar lead-acid battery. *Journal of Power Sources*, 272, 176-182. DOI:10.1016/j.jpowsour.2014.08.072

Larsson, K., & Binnemans, K. (2014). Selective extraction of metals using ionic liquids for nickel metal hydride battery recycling. *Green Chemistry*, 16(10), 4595-4603. DOI:10.1039/c3gc41930d

Lee, L. L., Yun, Y. H., Yun, J., Hwang, S. M., & Kim, Y. J. (2020). Enhanced cycle performance of Ultrabatteries by a surface-treated-coke coating. *Journal of Energy Storage*, 30, 101521. DOI:10.1016/j.est.2020.101521

Lee, Y. M., Choi, N. S., Park, J. H., & Park, J. K. (2003). Electrochemical performance of lithium/sulfur batteries with protected Li anodes. *Journal of Power Sources*, 119, 964-972. DOI:10.1016/S0378-7753(03)00300-8

Li, H. F., Yang, X. W., Wang, X. M., Liu, M. N., Ye, F. M., Wang, J., . . . Zhang, Y. G. (2015). Dense integration of graphene and sulfur through the soft approach for compact lithium/sulfur battery cathode. *Nano Energy*, 12, 468-475. DOI:10.1016/j.nanoen.2015.01.007

Lian, P., Zhu, X., Xiang, H., Li, Z., Yang, W., & Wang, H. (2010). Enhanced cycling performance of Fe₃O₄-graphene nanocomposite as an anode material for lithium-ion batteries. *Electrochimica Acta*, 56(2), 834-840. DOI:10.1016/j.electacta.2010.09.086

Liang, X., Wen, Z. Y., Liu, Y., Wu, M. F., Jin, J., Zhang, H., & Wu, X. W. (2011). Improved cycling performances of lithium sulfur batteries with LiNO₃-modified electrolyte. *Journal of Power Sources*, 196(22), 9839-9843. DOI:10.1016/j.jpowsour.2011.08.027

Liang, Y., Lai, W. H., Miao, Z., & Chou, S. L. (2018). Nanocomposite Materials for the Sodium-Ion Battery: A Review. *Small*, 14(5). DOI:10.1002/smll.201702514

Liang, Y., Zhao, C. Z., Yuan, H., Chen, Y., Zhang, W., Huang, J. Q., . . . Chueh, Y. L. (2019). A review of rechargeable batteries for portable electronic devices. *InfoMat*, 1(1), 6-32.

Lin, M. C., Gong, M., Lu, B., Wu, Y., Wang, D. Y., Guan, M., . . . Dai, H. (2015). An ultrafast rechargeable aluminium-ion battery. *Nature*, 520(7547), 325-328. DOI:10.1038/nature14340

Lin, Z. Q., Lin, N., Lin, H. B., & Zhang, W. L. (2020). Significance of PbO deposition ratio in activated carbon-based lead-carbon composites for lead-carbon battery under high-rate partial-state-of-charge operation. *Electrochimica Acta*, 338, 135868. DOI:10.1016/j.electacta.2020.135868

Liu, H., Cao, Q., Fu, L. J., Li, C., Wu, Y. P., & Wu, H. Q. (2006). Doping effects of zinc on LiFePO₄ cathode material for lithium ion batteries. *Electrochemistry Communications*, 8(10), 1553-1557. DOI:10.1016/j.elecom.2006.07.014

Liu, S., Li, G. R., & Gao, X. P. (2016). Lanthanum Nitrate As Electrolyte Additive To Stabilize the Surface Morphology of Lithium Anode for Lithium-Sulfur Battery. *ACS Appl Mater Interfaces*, 8(12), 7783-7789. DOI:10.1021/acsami.5b12231

Liu, T., Bao, Z., & Qiu, K. (2020). Recycling of lead from spent lead-acid battery by vacuum reduction-separation of Pb-Sb alloy coupling technology. *Waste Manag*, 103, 45-51. DOI:10.1016/j.wasman.2019.12.007

Liu, Y., Sang, S., Wu, Q., Lu, Z., Liu, K., & Liu, H. (2014). The electrochemical behavior of Cl⁻ assisted Al³⁺ insertion into titanium dioxide nanotube arrays in aqueous solution for aluminum ion batteries. *Electrochimica Acta*, 143, 340-346. DOI:10.1016/j.electacta.2014.08.016

Lu, D., Li, W., Hu, S., Xiao, F., & Tang, R. (2006). Uniform nanocrystalline AB₅-type hydrogen storage alloy: Preparation and properties as negative materials of Ni/MH battery. *International Journal of Hydrogen Energy*, 31(6), 678-682. DOI:10.1016/j.ijhydene.2005.07.006

Lu, Y. K., Su, N., Cheng, L. Z., Liu, J., Yang, L. Y., Yang, H. R., . . . Lei, M. (2016). Na_{0.33}V₂O₅ nanosheet@graphene composites: Towards high performance cathode materials for sodium ion batteries. *Materials Letters*, 183, 346-350. DOI:10.1016/j.matlet.2016.07.128

Lucero, D., Albaugh, T., & Pickett, D. (2000, 24-28 July 2000). Performance comparison between vented nickel cadmium and sealed maintenance free nickel cadmium aircraft batteries. Collection of Technical Papers. 35th Intersociety Energy Conversion Engineering Conference and Exhibit (IECEC) (Cat. No.00CH37022),

Lv, J., Tu, J. P., Zhang, W. K., Wu, J. B., Wu, H. M., & Zhang, B. (2004). Effects of carbon nanotubes on the high-rate discharge properties of nickel/metal hydride batteries. *Journal of Power Sources*, 132(1-2), 282-287. DOI:10.1016/j.jpowsour.2004.01.039

May, G. J., Davidson, A., & Monahov, B. (2018). Lead batteries for utility energy storage: A review. *Journal of Energy Storage*, 15, 145-157. DOI:10.1016/j.est.2017.11.008

Mayén-Mondragón, R., Ibanez, J. G., Vasquez, R. C., Baeza, A., & Oropeza, M. T. (2008). Electrochemical Recovery of Cadmium from Simulated Waste Nickel-Cadmium Battery Solutions. *Water, Air, and Soil Pollution*, 194(1-4), 45-55. DOI:10.1007/s11270-008-9697-9

McKeon, B. B., Furukawa, J., & Fenstermacher, S. (2014). Advanced Lead–Acid Batteries and the Development of Grid-Scale Energy Storage Systems. *Proceedings of the IEEE*, 102(6), 951-963. DOI:10.1109/jproc.2014.2316823

Meisner, Q. J., Rojas, T., Dietz Rago, N. L., Cao, J., Bareño, J., Glossmann, T., . . . Zhang, Z. (2019). Lithium–sulfur battery with partially fluorinated ether electrolytes: Interplay between capacity, coulombic efficiency and Li anode protection. *Journal of Power Sources*, 438, 226939. DOI:10.1016/j.jpowsour.2019.226939

Morimoto, K., Nagashima, I., Matsui, M., Maki, H., & Mizuhata, M. (2018). Improvement of electrochemical properties and oxidation/reduction behavior of cobalt in positive electrode of Ni–metal hydride battery. *Journal of Power Sources*, 388, 45-51. DOI:10.1016/j.jpowsour.2018.03.062

Morioka, Y., Narukawa, S., & Itou, T. (2001). State-of-the-art of alkaline rechargeable batteries. *Journal of Power Sources*, 100(1), 107-116. DOI:10.1016/S0378-7753(01)00888-6

Muller, T., & Friedrich, B. (2006). Development of a recycling process for nickel-metal hydride batteries. *Journal of Power Sources*, 158(2), 1498-1509. DOI:10.1016/j.jpowsour.2005.10.046

Ni, Q., Bai, Y., Wu, F., & Wu, C. (2017). Polyanion-Type Electrode Materials for Sodium-Ion Batteries. *Adv Sci (Weinh)*, 4(3), 1600275. DOI:10.1002/advs.201600275

Nishimura, S., Nakamura, M., Natsui, R., & Yamada, A. (2010). New lithium iron pyrophosphate as 3.5 V class cathode material for lithium ion battery. *J Am Chem Soc*, 132(39), 13596-13597. DOI:10.1021/ja106297a

Ohms, D., Kohlhasse, M., Benczúr-Ürmösy, G., Wiesener, K., & Harmel, J. (2002). High performance nickel–metal hydride battery in bipolar stack design. *Journal of Power Sources*, 105(2), 120-126. DOI:10.1016/s0378-7753(01)00929-6

Omar, N., Firouz, Y., Monem, M. A., Samba, A., Gualous, H., Coosemans, T., . . . Van Mierlo, J. (2014). Analysis of Nickel-Based Battery Technologies for Hybrid and Electric Vehicles. DOI:10.1016/b978-0-12-409547-2.10740-1

Ouyang, L. Z., Huang, J. L., Wang, H., Liu, J. W., & Zhu, M. (2017). Progress of hydrogen storage alloys for Ni-MH rechargeable power batteries in electric vehicles: A review. *Materials Chemistry and Physics*, 200, 164-178. DOI:10.1016/j.matchemphys.2017.07.002

OxisEnergy. (2020, 04 February 2020). *Li-S, UAV, bus, truck, EV and Marine batteries*. Retrieved 07 July from <https://oxisenergy.com/products/>

Palacin, M. R. (2009). Recent advances in rechargeable battery materials: a chemist's perspective [10.1039/B820555H]. *Chem Soc Rev*, 38(9), 2565-2575. DOI:10.1039/b820555h

Pavlov, D. (2017). Valve-Regulated Lead–Acid (VRLA) Batteries. 593-620. DOI:10.1016/b978-0-444-59552-2.00014-6

Ponrouch, A., Bitenc, J., Dominko, R., Lindahl, N., Johansson, P., & Palacin, M. R. (2019). Multivalent rechargeable batteries. *Energy Storage Materials*, 20, 253-262. DOI:10.1016/j.ensm.2019.04.012

Pu, J., Shen, Z. H., Zheng, J. X., Wu, W. L., Zhu, C., Zhou, Q. W., . . . Pan, F. (2017). Multifunctional Co₃S₄@sulfur nanotubes for enhanced lithium-sulfur battery performance. *Nano Energy*, 37, 7-14. DOI:10.1016/j.nanoen.2017.05.009

Rahman, M. M., Sultana, I., Chen, Z., Srikanth, M., Li, L. H., Dai, X. J., & Chen, Y. (2015). Ex situ electrochemical sodiation/desodiation observation of Co(3)O(4) anchored carbon nanotubes: a high performance sodium-ion battery anode produced by pulsed plasma in a liquid. *Nanoscale*, 7(30), 13088-13095. DOI:10.1039/c5nr03335g

Raj K, A., Panda, M. R., Dutta, D. P., & Mitra, S. (2019). Bio-derived mesoporous disordered carbon: An excellent anode in sodium-ion battery and full-cell lab prototype. *Carbon*, 143, 402-412. DOI:10.1016/j.carbon.2018.11.038

Rand, D. A. J., & Moseley, P. T. (2015). Chapter 13 - Energy Storage with Lead-Acid Batteries. In P. T. Moseley & J. Garche (Eds.), *Electrochemical Energy Storage for Renewable Sources and Grid Balancing* (pp. 201-222). Elsevier. DOI:10.1016/B978-0-444-62616-5.00013-9

Randhawa, N. S., Gharami, K., & Kumar, M. (2016). Leaching kinetics of spent nickel-cadmium battery in sulphuric acid. *Hydrometallurgy*, 165, 191-198. DOI:10.1016/j.hydromet.2015.09.011

Rani, J. V., Kanakaiah, V., Dadmal, T., Rao, M. S., & Bhavanarushi, S. (2013). Fluorinated Natural Graphite Cathode for Rechargeable Ionic Liquid Based Aluminum-Ion Battery. *Journal of the Electrochemical Society*, 160(10), A1781-A1784. DOI:10.1149/2.072310jes

Rawal, A., Rao, P. V. K., & Kumar, V. (2018). Deconstructing three-dimensional (3D) structure of absorptive glass mat (AGM) separator to tailor pore dimensions and amplify electrolyte uptake. *Journal of Power Sources*, 384, 417-425. DOI:10.1016/j.jpowsour.2018.02.072

Reddy, T. B. (2011). *Linden's Handbook of Batteries, Fourth Edition* (4th ed.). McGraw-Hill Education. <https://www.accessengineeringlibrary.com/content/book/9780071624213>

Ren, W. C., Ma, W., Zhang, S. F., & Tang, B. T. (2019). Recent advances in shuttle effect inhibition for lithium sulfur batteries. *Energy Storage Materials*, 23, 707-732. DOI:10.1016/j.ensm.2019.02.022

Rosenman, A., Markevich, E., Salitra, G., Aurbach, D., Garsuch, A., & Chesneau, F. F. (2015). Review on Li-Sulfur Battery Systems: an Integral Perspective. *Advanced Energy Materials*, 5(16), 1500212. DOI:10.1002/aenm.201500212

Ruiz, F., Castro, E., Real, S., Peretti, H., Visintin, A., & Triaca, W. (2008). Electrochemical characterization of AB₂ alloys used for negative electrodes in Ni/MH batteries. *International Journal of Hydrogen Energy*, 33(13), 3576-3580. DOI:10.1016/j.ijhydene.2007.12.019

Sakuda, A., Hayashi, A., & Tatsumisago, M. (2013). Sulfide solid electrolyte with favorable mechanical property for all-solid-state lithium battery. *Sci Rep*, 3, 2261. DOI:10.1038/srep02261

Sapru, K., Reichman, B., Reger, A., & Ovshinsky, S. (1986). *Rechargeable battery and electrode used therein* (US Patent No. 4,623,597).

Saroja, A. P. V. K., Arjunan, A., Muthusamy, K., Balasubramanian, V., & Sundara, R. (2020). Chemically bonded amorphous red phosphorous with disordered carbon nanosheet as high voltage cathode for rechargeable aluminium ion battery. *Journal of Alloys and Compounds*, 830, 154693. DOI:10.1016/j.jallcom.2020.154693

Sato, Y., Takeuchi, S., & Kobayakawa, K. (2001). Cause of the memory effect observed in alkaline secondary batteries using nickel electrode. *Journal of Power Sources*, 93(1-2), 20-24. DOI:10.1016/S0378-7753(00)00506-1

Schaeck, S., Karspeck, T., Ott, C., Weckler, M., & Stoermer, A. O. (2011). A field operational test on valve-regulated lead-acid absorbent-glass-mat batteries in micro-hybrid electric vehicles. Part I. Results based on kernel density estimation. *Journal of Power Sources*, 196(5), 2924-2932. DOI:10.1016/j.jpowsour.2010.09.034

Scheers, J., Fantini, S., & Johansson, P. (2014). A review of electrolytes for lithium-sulphur batteries. *Journal of Power Sources*, 255, 204-218. DOI:10.1016/j.jpowsour.2014.01.023

Shin, S. H., Yoon, S. J., So, S., Kim, T. H., Hong, Y. T., & Lee, J. Y. (2020). Simple and effective modification of absorbed glass mat separator through atmospheric plasma treatment for practical use in AGM lead-acid battery applications. *Journal of Energy Storage*, 28, 101187. DOI:10.1016/j.est.2019.101187

Shinyama, K., Harada, Y., Maeda, R., Nakamura, H., Matsuta, S., Nohma, T., & Yonezu, I. (2006). Suppression mechanism of the self-discharge reaction in nickel-metal hydride batteries using a sulfonated polyolefin separator. *Research on Chemical Intermediates*, 32(5-6), 453-459. DOI:10.1163/156856706777973673

Skundin, A. M., Kulova, T. L., & Yaroslavl'tsev, A. B. (2018). Sodium-Ion Batteries (a Review). *Russian Journal of Electrochemistry*, 54(2), 113-152. DOI:10.1134/S1023193518020076

Sonnenschein. (2003). *Handbook for Gel-VRLA-Batteries* I. Energy. <http://www.sonnenschein.org/PDF%20files/GelHandbookPart1.pdf>
<http://www.sonnenschein.org/PDF%20files/GelHandbookPart2.pdf>

Sun, C. W., Liu, J., Gong, Y. D., Wilkinson, D. P., & Zhang, J. J. (2017). Recent advances in all-solid-state rechargeable lithium batteries. *Nano Energy*, 33, 363-386. DOI:10.1016/j.nanoen.2017.01.028

Sun, H., Wang, W., Yu, Z., Yuan, Y., Wang, S., & Jiao, S. (2015). A new aluminium-ion battery with high voltage, high safety and low cost. *Chem Commun (Camb)*, 51(59), 11892-11895. DOI:10.1039/c5cc00542f

Sundén, B. (2019). *Hydrogen, Batteries and Fuel Cells*. Academic Press.

Takada, K. (2013). Progress and prospective of solid-state lithium batteries. *Acta Materialia*, 61(3), 759-770. DOI:10.1016/j.actamat.2012.10.034

Takada, K., Inada, T., Kajiyama, A., Sasaki, H., Kondo, S., Watanabe, M., . . . Kanno, R. (2003). Solid-state lithium battery with graphite anode. *Solid State Ionics*, 158(3-4), 269-274. DOI:Pii S0167-2738(02)00823-8

Doi 10.1016/S0167-2738(02)00823-8

Tan, J., Li, D., Liu, Y., Zhang, P., Qu, Z., Yan, Y., . . . Liu, M. (2020). A self-supported 3D aerogel network lithium-sulfur battery cathode: sulfur spheres wrapped with phosphorus doped graphene and bridged with carbon nanofibers [10.1039/D0TA00284D]. *Journal of Materials Chemistry A*, 8(16), 7980-7990. DOI:10.1039/d0ta00284d

Tan, L., Zhang, S., & Deng, C. (2015). Fast lithium intercalation chemistry of the hierarchically porous Li₂FeP₂O₇/C composite prepared by an iron-reduction method. *Journal of Power Sources*, 275, 6-13. DOI:10.1016/j.jpowsour.2014.10.178

Tantichanakul, T., Chailapakul, O., & Tantavichet, N. (2013). Influence of fumed silica and additives on the gel formation and performance of gel valve-regulated lead-acid batteries. *Journal of Industrial and Engineering Chemistry*, 19(6), 2085-2091. DOI:10.1016/j.jiec.2013.03.024

Tao, X., Wang, J., Liu, C., Wang, H., Yao, H., Zheng, G., . . . Cui, Y. (2016). Balancing surface adsorption and diffusion of lithium-polysulfides on nonconductive oxides for lithium-sulfur battery design. *Nat Commun*, 7(1), 11203. DOI:10.1038/ncomms11203

Tapia-Ruiz, N., Armstrong, A. R., Alptekin, H., Amores, M. A., Au, H. T., Barker, J., . . . Younesi, R. (2021). 2021 roadmap for sodium-ion batteries. *Journal of Physics-Energy*, 3(3), 031503. DOI:10.1088/2515-7655/ac01ef

Tarakina, N. V., & Verberck, B. (2016). A portrait of cadmium. *Nat Chem*, 9(1), 96. DOI:10.1038/nchem.2699

TheEngineer. (2020). 'World's most efficient lithium-sulphur battery' set for launch. Mark Allen Engineering Ltd. Retrieved 07 July from <https://www.theengineer.co.uk/lithium-sulphur-battery/>

Torabi, F., & Ahmadi, P. (2020). Chapter 1 - Battery technologies. In F. Torabi & P. Ahmadi (Eds.), *Simulation of Battery Systems* (pp. 1-54). Academic Press. DOI:10.1016/B978-0-12-816212-5.00005-2

Tsaïs, P. J., & Chan, L. I. (2013). 11 - Nickel-based batteries: materials and chemistry. In Z. Melhem (Ed.), *Electricity Transmission, Distribution and Storage Systems* (pp. 309-397). Woodhead Publishing. DOI:10.1533/9780857097378.3.309

Tzanetakis, N., & Scott, K. (2004a). Recycling of nickel-metal hydride batteries. I: Dissolution and solvent extraction of metals. *Journal of Chemical Technology & Biotechnology*, 79(9), 919-926. DOI:10.1002/jctb.1081

Tzanetakis, N., & Scott, K. (2004b). Recycling of nickel-metal hydride batteries. II: Electrochemical deposition of cobalt and nickel. *Journal of Chemical Technology & Biotechnology*, 79(9), 927-934. DOI:10.1002/jctb.1082

Uesato, H., Miyaoka, H., Ichikawa, T., & Kojima, Y. (2019). Hybrid nickel-metal hydride/hydrogen battery. *International Journal of Hydrogen Energy*, 44(8), 4263-4270. DOI:10.1016/j.ijhydene.2018.12.114

Van den Bossche, P., Vergels, F., Van Mierlo, J., Matheys, J., & Van Autenboer, W. (2006). SUBAT: An assessment of sustainable battery technology. *Journal of Power Sources*, 162(2), 913-919. DOI:10.1016/j.jpowsour.2005.07.039

Veeraraghavan, B., Paul, J., Haran, B., & Popov, B. (2002). Study of polypyrrole graphite composite as anode material for secondary lithium-ion batteries. *Journal of Power Sources*, 109(2), 377-387. DOI:10.1016/S0378-7753(02)00105-2

Walter, M., Erni, R., & Kovalenko, M. V. (2015). Inexpensive antimony nanocrystals and their composites with red phosphorus as high-performance anode materials for Na-ion batteries. *Sci Rep*, 5, 8418. DOI:10.1038/srep08418

Wang, C., Chen, J.-j., Shi, Y.-n., Zheng, M.-s., & Dong, Q.-f. (2010). Preparation and performance of a core-shell carbon/sulfur material for lithium/sulfur battery. *Electrochimica Acta*, 55(23), 7010-7015. DOI:10.1016/j.electacta.2010.06.019

Wang, G., Li, F., Liu, D., Zheng, D., Abeggien, C. J., Luo, Y., . . . Qu, D. (2020). High performance lithium-ion and lithium-sulfur batteries using prelithiated phosphorus/carbon composite anode. *Energy Storage Materials*, 24, 147-152. DOI:10.1016/j.ensm.2019.08.025

Wang, H., Yang, Y., Liang, Y., Robinson, J. T., Li, Y., Jackson, A., . . . Dai, H. (2011). Graphene-wrapped sulfur particles as a rechargeable lithium-sulfur battery cathode material with high capacity and cycling stability. *Nano letters*, 11(7), 2644-2647.

Wang, J., Chew, S. Y., Zhao, Z. W., Ashraf, S., Wexler, D., Chen, J., . . . Liu, H. K. (2008). Sulfur-mesoporous carbon composites in conjunction with a novel ionic liquid electrolyte for lithium rechargeable batteries. *Carbon*, 46(2), 229-235. DOI:10.1016/j.carbon.2007.11.007

Wang, W., Guo, W., Liu, X., Zhang, S., Zhao, Y., Li, Y., . . . Han, S. (2020). The interaction of subunits inside superlattice structure and its impact on the cycling stability of AB₄-type La-Mg-Ni-based hydrogen storage alloys for nickel-metal hydride batteries. *Journal of Power Sources*, 445, 227273. DOI:10.1016/j.jpowsour.2019.227273

Wang, W., Jiang, B., Xiong, W., Sun, H., Lin, Z., Hu, L., . . . Jiao, S. (2013). A new cathode material for super-valent battery based on aluminium ion intercalation and deintercalation. *Sci Rep*, 3(1), 3383. DOI:10.1038/srep03383

Wang, W., Qin, R., Wu, R., Tao, X., Zhang, H., Ding, Z., . . . Han, S. (2020). A promising anode candidate for rechargeable nickel metal hydride power battery: An A₅B₁₉-type La-Sm-Nd-Mg-Ni-Al-based hydrogen storage alloy. *Journal of Power Sources*, 465, 228236. DOI:10.1016/j.jpowsour.2020.228236

Wang, X., Chen, K., Wang, G., Liu, X., & Wang, H. (2017). Rational Design of Three-Dimensional Graphene Encapsulated with Hollow FeP@Carbon Nanocomposite as Outstanding Anode Material for Lithium Ion and Sodium Ion Batteries. *ACS Nano*, 11(11), 11602-11616. DOI:10.1021/acsnano.7b06625

Wang, X. F., Feng, Z. J., Hou, X. L., Liu, L. L., He, M., He, X. S., . . . Wen, Z. H. (2020). Fluorine doped carbon coating of LiFePO₄ as a cathode material for lithium-ion batteries. *Chemical Engineering Journal*, 379, 122371. DOI:10.1016/j.cej.2019.122371

Wang, X. F., Feng, Z. J., Huang, J. T., Deng, W., Li, X. B., Zhang, H. S., & Wen, Z. H. (2018). Graphene-decorated carbon-coated LiFePO₄ nanospheres as a high-performance cathode material for lithium-ion batteries. *Carbon*, 127, 149-157. DOI:10.1016/j.carbon.2017.10.101

Wang, Y., Song, S., Xu, C., Hu, N., Molenda, J., & Lu, L. (2019). Development of solid-state electrolytes for sodium-ion battery—A short review. *Nano Materials Science*, 1(2), 91-100. DOI:10.1016/j.nanoms.2019.02.007

Wei, H. G., Cui, D. P., Ma, J. H., Chu, L. I., Zhao, X. O., Song, H. X., . . . Guo, Z. (2017). Energy conversion technologies towards self-powered electrochemical energy storage systems: the state of the art and perspectives [10.1039/C6TA09726J]. *Journal of Materials Chemistry A*, 5(5), 1873-1894. DOI:10.1039/c6ta09726j

Weiguang, Y. (2015). *Secondary aluminium ion battery having high discharge voltage and preparation method* CN-105406111-A). <https://pubchem.ncbi.nlm.nih.gov/patent/CN-105406111-A>

Wen, Y., He, K., Zhu, Y., Han, F., Xu, Y., Matsuda, I., . . . Wang, C. (2014). Expanded graphite as superior anode for sodium-ion batteries. *Nat Commun*, 5(1), 4033. DOI:10.1038/ncomms5033

Wu, F., Maier, J., & Yu, Y. (2020). Guidelines and trends for next-generation rechargeable lithium and lithium-ion batteries [10.1039/C7CS00863E]. *Chem Soc Rev*, 49(5), 1569-1614. DOI:10.1039/c7cs00863e

Wu, J. B., Tu, J. P., Wang, X. L., & Zhang, W. K. (2007). Synthesis of nanoscale CoO particles and their effect on the positive electrodes of nickel-metal hydride batteries. *International Journal of Hydrogen Energy*, 32(5), 606-610. DOI:10.1016/j.ijhydene.2006.06.044

Xiong, H., Slater, M. D., Balasubramanian, M., Johnson, C. S., & Rajh, T. (2011). Amorphous TiO₂ Nanotube Anode for Rechargeable Sodium Ion Batteries. *Journal of Physical Chemistry Letters*, 2(20), 2560-2565. DOI:10.1021/jz2012066

Xu, X. L., Wang, S. J., Wang, H., Xu, B., Hu, C., Jin, Y., . . . Yan, H. (2017). The suppression of lithium dendrite growth in lithium sulfur batteries: A review. *Journal of Energy Storage*, 13, 387-400. DOI:10.1016/j.est.2017.07.031

Yabuuchi, N., Kubota, K., Dahbi, M., & Komaba, S. (2014). Research development on sodium-ion batteries. *Chem Rev*, 114(23), 11636-11682. DOI:10.1021/cr500192f

Yan, Y., Yin, Y. X., Xin, S., Su, J., Guo, Y. G., & Wan, L. J. (2013). High-safety lithium-sulfur battery with prelithiated Si/C anode and ionic liquid electrolyte. *Electrochimica Acta*, 91, 58-61. DOI:10.1016/j.electacta.2012.12.077

Yang, G. Y., Chen, L., Jiang, P., Guo, Z. Y., Wang, W., & Liu, Z. P. (2016). Fabrication of tunable 3D graphene mesh network with enhanced electrical and thermal properties for high-rate aluminum-ion battery application [10.1039/C6RA06467A]. *Rsc Advances*, 6(53), 47655-47660. DOI:10.1039/c6ra06467a

Yang, X., Zhang, J., & Fang, X. (2014). Rare earth element recycling from waste nickel-metal hydride batteries. *J Hazard Mater*, 279, 384-388. DOI:10.1016/j.jhazmat.2014.07.027

Yoshio, M., Tsumura, T., & Dimov, N. (2005). Electrochemical behaviors of silicon based anode material. *Journal of Power Sources*, 146(1-2), 10-14. DOI:10.1016/j.jpowsour.2005.03.143

Yuan, Z., Peng, H. J., Hou, T. Z., Huang, J. Q., Chen, C. M., Wang, D. W., . . . Zhang, Q. (2016). Powering Lithium-Sulfur Battery Performance by Propelling Polysulfide Redox at Sulfiphilic Hosts. *Nano Lett*, 16(1), 519-527. DOI:10.1021/acs.nanolett.5b04166

Zhang, J., Liu, Z., Kong, Q., Zhang, C., Pang, S., Yue, L., . . . Cui, G. (2013). Renewable and superior thermal-resistant cellulose-based composite nonwoven as lithium-ion battery separator. *ACS Appl Mater Interfaces*, 5(1), 128-134. DOI:10.1021/am302290n

Zhang, L., Zhu, C., Yu, S., Ge, D., & Zhou, H. (2022). Status and challenges facing representative anode materials for rechargeable lithium batteries. *Journal of Energy Chemistry*, 66, 260-294.

Zhang, S. S. (2012). Role of LiNO₃ in rechargeable lithium/sulfur battery. *Electrochimica Acta*, 70, 344-348. DOI:10.1016/j.electacta.2012.03.081

Zhang, Z., Gonzalez, A. R., & Choy, K. L. (2019). Boron nitride enhanced garnet-type (Li₆.25Al_{0.25}La₃Zr₂O₁₂) ceramic electrolyte for an all-solid-state lithium-ion battery. *Applied Energy Materials*, 2(10), 7438-7448.

Zhao, H. J., Deng, N. P., Yan, J., Kang, W. M., Ju, J. G., Ruan, Y. L., . . . Cheng, B. W. (2018). A review on anode for lithium-sulfur batteries: Progress and prospects. *Chemical Engineering Journal*, 347, 343-365. DOI:10.1016/j.cej.2018.04.112

Zhao, M., Li, B. Q., Peng, H. J., Yuan, H., Wei, J. Y., & Huang, J. Q. (2020). Lithium-Sulfur Batteries under Lean Electrolyte Conditions: Challenges and Opportunities. *Angew Chem Int Ed Engl*, 59(31), 12636-12652. DOI:10.1002/anie.201909339

Zhao, R., Zhao, W., Zhang, T., Zhao, H., Lv, D., Shi, G., & Chen, H. (2018). Preparation of PbO@SiO₂/Carbon composite and its electrochemical properties investigation in lead-acid battery. *Journal of Electroanalytical Chemistry*, 814, 38-44. DOI:10.1016/j.jelechem.2018.02.030

Zhao, X., Zhang, Z., Yang, F., Fu, Y., Lai, Y., & Li, J. (2015). Core-shell structured SnO₂ hollow spheres-polyaniline composite as an anode for sodium-ion batteries. *RSC Advances*, 5(40), 31465-31471. DOI:10.1039/c5ra02834e

Zhao, Z., Su, H., Li, S., Li, C., Liu, Z., & Li, D. (2020). Ball-in-ball structured SnO₂@FeOOH@C nanospheres toward advanced anode material for sodium ion batteries. *Journal of Alloys and Compounds*, 838, 155394. DOI:10.1016/j.jallcom.2020.155394

Zheng, F., Kotobuki, M., Song, S. F., Lai, M. O., & Lu, L. (2018). Review on solid electrolytes for all-solid-state lithium-ion batteries. *Journal of Power Sources*, 389, 198-213. DOI:10.1016/j.jpowsour.2018.04.022

Zhong, Y., Xia, X. H., Zhan, J. Y., Wang, X. L., & Tu, J. P. (2016). A CNT cocoon on sodium manganate nanotubes forming a core/branch cathode coupled with a helical carbon nanofibre anode for enhanced sodium ion batteries. *Journal of Materials Chemistry A*, 4(29), 11207-11213. DOI:10.1039/c6ta05069g

Zhou, X. S., Dai, Z. H., Bao, J. C., & Guo, Y. G. (2013). Wet milled synthesis of an Sb/MWCNT nanocomposite for improved sodium storage. *Journal of Materials Chemistry A*, 1(44), 13727-13731. DOI:10.1039/c3ta13438e

Zhu, Y., Han, X., Xu, Y., Liu, Y., Zheng, S., Xu, K., . . . Wang, C. (2013). Electrospun Sb/C fibers for a stable and fast sodium-ion battery anode. *ACS Nano*, 7(7), 6378-6386. DOI:10.1021/nn4025674

Zubi, G., Dufo-Lopez, R., Carvalho, M., & Pasaoglu, G. (2018). The lithium-ion battery: State of the art and future perspectives. *Renewable & Sustainable Energy Reviews*, 89, 292-308. DOI:10.1016/j.rser.2018.03.002

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