

- Aghababazadeh, R, A R Mirhabibi, J A Melo Banda, and T Goto. 2017. "Synthesis of the Supported Catalysts by Co- Impregnation and Sequential Impregnation Methods Synthesis of the Supported Catalysts by Co-Impregnation and Sequential Impregnation Methods." <https://doi.org/10.1088/1742-6596/755/1/011001>.
- Ahmadi, Majid, and Seyed Hadi Seyedin. 2019. "Investigation of NaOH Properties , Production and Sale Mark in the World." *Journal of Multidisciplinary Engineering Science and Technology* 6 (10): 10809–13. <http://www.jmest.org/wp-content/uploads/JMESTN42353137.pdf>.
- Archer, D G, and Peiming Wang. 1989. "The Dielectric Constant of Water and Debye-Hückel Low Slopes." *Journal of Physical Chem.*
- Banguero, Edison, Antonio Correcher, Ángel Pérez-Navarro, Francisco Morant, and Andrés Aristizabal. 2018. "A Review on Battery Charging and Discharging Control Strategies: Application to Renewable Energy Systems." *Energies* 11 (4): 1–15. <https://doi.org/10.3390/en11041021>.
- Barros, M. A.S.D., P. A. Arroyo, E. F. Sousa-Aguiar, and C. R.G. Tavares. 2004. "Thermodynamics of the Exchange Processes between K⁺, Ca²⁺ and Cr³⁺ in Zeolite NaA." *Adsorption* 10 (3): 227–35. <https://doi.org/10.1023/B:ADSO.0000046359.58855.9f>.
- Billy, Emmanuel, Marion Joulié, Richard Laucournet, Adrien Boulineau, Eric De Vito, and Daniel Meyer. 2018. "Dissolution Mechanisms of LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂ Positive Electrode Material from Lithium-Ion Batteries in Acid Solution." *ACS Applied Materials and Interfaces* 10 (19): 16424–35. <https://doi.org/10.1021/acsami.8b01352>.
- Bromley, Leroy A. 1973. "Thermodynamic Properties of Strong Electrolytes in Aqueous Solutions." *AIChE Journal* 19 (2): 313–20. <https://doi.org/10.1002/aic.690190216>.
- Calmon, C. 1984. *Mass Transfer and Kinetics of Ion Exchange. Reactive Polymers, Ion Exchangers, Sorbents*. Vol. 2. [https://doi.org/10.1016/0167-6989\(84\)90097-7](https://doi.org/10.1016/0167-6989(84)90097-7).
- Chang, Raymond. 1980. *Chemistry. Progress in Nuclear Energy*. Vol. 6. [https://doi.org/10.1016/0149-1970\(80\)90015-3](https://doi.org/10.1016/0149-1970(80)90015-3).
- Chaudoy, Victor, Fouad Ghamouss, Johan Jacquemin, Jean Christophe Houbert, and

- François Tran-Van. 2015. "On the Performances of Ionic Liquid-Based Electrolytes for Li-NMC Batteries." *Journal of Solution Chemistry* 44 (3–4): 769–89. <https://doi.org/10.1007/s10953-015-0315-3>.
- Girish, C R. 2018. "Various Impregnation Methods Used for the Surface Modification of the Adsorbent : A Review" 7: 330–34.
- Hückel, E. 1923. "Zur Theorie Der Elektrolyte." *Ergebnisse Der Exakten Naturwissenschaften*, 199–276. <https://doi.org/10.1007/bfb0111753>.
- Hunter, Robert J. 1966. "Calculation of Activity Coefficient from Debye-Hückel Theory." *Journal of Chemical Education* 43 (10): 550–52. <https://doi.org/10.1021/ed043p550>.
- Irazaqui, Horacio A., Miguel A. Isla, and Carlos M. Genoud. 1993. "Simulation of a Urea Synthesis Reactor. 2. Reactor Model." *Industrial and Engineering Chemistry Research* 32 (11): 2671–80. <https://doi.org/10.1021/ie00023a034>.
- "Joseph F. Zemaitis, Diane M. Clark, Marshall Rafal, Noel C. Scrivner - Handbook of Aqueous Electrolyte Thermodynamics_ Theory & Application-Amer Inst of Chemical Engineers (1986).Pdf." n.d.
- Julien, Christian, Alain Mauger, Karim Zaghbi, and Henri Groult. 2016. "Optimization of Lapisaned Cathode Materials for Lithium-Ion Batteries." *Materials* 9 (7). <https://doi.org/10.3390/MA9070595>.
- Ku, Heesuk, Yeojin Jung, Minsang Jo, Sanghyuk Park, Sookyung Kim, Donghyo Yang, Kangin Rhee, Eung Mo An, Jeongsoo Sohn, and Kyungjung Kwon. 2016. "Recycling of Spent Lithium-Ion Battery Cathode Materials by Ammoniacal Leaching." *Journal of Hazardous Materials* 313 (March): 138–46. <https://doi.org/10.1016/j.jhazmat.2016.03.062>.
- KURSUNOGLU, Sait, Soner TOP, and Muammer KAYA. 2020. "Recovery of Zinc and Lead from Yahyali Non-Sulphide Flotation Tailing by Sequential Acidic and Sodium Hydroxide Leaching in the Presence of Potassium Sodium Tartrate." *Transactions of Nonferrous Metals Society of China (English Edition)* 30 (12): 3367–78. [https://doi.org/10.1016/S1003-6326\(20\)65468-1](https://doi.org/10.1016/S1003-6326(20)65468-1).
- Lalleman, S., M. Bertrand, E. Plasari, C. Sorel, and P. Moisy. 2012. "Determination of the Bromley Contributions to Estimate the Activity Coefficient of Neodymium Electrolytes." *Chemical Engineering Science* 77: 189–95.

- Lee, Jai Yeop, and Ihnsup Han. 2013. "A Semi-Empirical Equation for Activity Coefficients of Ions with One Parameter." *Bulletin of the Korean Chemical Society* 34 (12): 3709–14. <https://doi.org/10.5012/bkcs.2013.34.12.3709>.
- Lei, Shu Ya, Rui Xu, Wei Sun, Sheng Ming Xu, and Yue Yang. 2021. *Recycling of Spent Lithium-Ion Battery*. *Zhongguo Youse Jinshu Xuebao/Chinese Journal of Nonferrous Metals*. Vol. 31. <https://doi.org/10.11817/j.ysxb.1004.0609.2021-42256>.
- Li, Li, Wenjie Qu, Xiaoxiao Zhang, Jun Lu, Renjie Chen, Feng Wu, and Khalil Amine. 2015. "Succinic Acid-Based Leaching System: A Sustainable Process for Recovery of Valuable Metals from Spent Li-Ion Batteries." *Journal of Power Sources* 282: 544–51. <https://doi.org/10.1016/j.jpowsour.2015.02.073>.
- Lugol, P., J. Guyot, and P. Job. 1913. "Physikalische Zeitschrift." *Journal de Physique Théorique et Appliquée* 3 (1): 74–80. <https://doi.org/10.1051/jphystap:01913003007401>.
- Luqman, Mohhamed. 2013. *Ion Exchange Technology I*. Springer. Vol. 53. <http://ebooks.cambridge.org/ref/id/CBO9781107415324A009>.
- Lv, Weiguang, Zhonghang Wang, Hongbin Cao, Xiaohong Zheng, Wei Jin, Yi Zhang, and Zhi Sun. 2018. "A Sustainable Process for Metal Recycling from Spent Lithium-Ion Batteries Using Ammonium Chloride." *Waste Management* 79: 545–53. <https://doi.org/10.1016/j.wasman.2018.08.027>.
- Nayaka, G. P., K. V. Pai, G. Santhosh, and J. Manjanna. 2016. "Recovery of Cobalt as Cobalt Oxalate from Spent Lithium Ion Batteries by Using Glycine as Leaching Agent." *Journal of Environmental Chemical Engineering* 4 (2): 2378–83. <https://doi.org/10.1016/j.jece.2016.04.016>.
- Praunzitz, John ; Lichtenthaler, Rudiger ; Edmundo Gomes, Azevedo. 1999. *Molecular Thermodynamics of Fluid Phase Equilibria*. Thrid Edit. New Jersey: New Jersey.
- Qi, Yaping, Fansong Meng, Xiaoxia Yi, Jiancheng Shu, Mengjun Chen, Zhi Sun, Shuhui Sun, and Fu Rong Xiu. 2020. "A Novel and Efficient Ammonia Leaching Method for Recycling Waste Lithium Ion Batteries." *Journal of Cleaner Production* 251: 119665. <https://doi.org/10.1016/j.jclepro.2019.119665>.
- Rouquerol, Francoise; Rouquerol, Lean; Sing, Kenneth. 1999. *Adsorption by Powders*

- Sarkar, S. 2011. "Hydrometallurgy The Removal of Alumina and Silica from Iron Rejects Slime by Chemical Leaching." *Hydrometallurgy* 105 (3–4): 364–69. <https://doi.org/10.1016/j.hydromet.2010.10.008>.
- Seyed Ghasemi, Seyed Mahyar, and Asghar Azizi. 2018. "Alkaline Leaching of Lead and Zinc by Sodium Hydroxide: Kinetics Modeling." *Journal of Materials Research and Technology* 7 (2): 118–25. <https://doi.org/10.1016/j.jmrt.2017.03.005>.
- Shuva, Md. Al Hossaini, and ASW Kurny. 2013. "Hydrometallurgical Recovery of Value Metals from Spent Lithium Ion Batteries." *American Journal of Materials Engineering and Technology* 1 (1): 8–12. <https://doi.org/10.12691/materials-1-1-2>.
- Smith, J. M. 1950. *Introduction to Chemical Engineering Thermodynamics*. *Journal of Chemical Education*. Vol. 27. <https://doi.org/10.1021/ed027p584.3>.
- Sun, Jian, Wenqi Niu, Akira Taguchi, Takayuki Abe, Yoshiharu Yoneyama, and Noritatsu Tsubaki. 2014. "Catalysis Science & Technology," 1260–67. <https://doi.org/10.1039/c3cy01091k>.
- Thingvad, Malthe, Lisa Calearo, Andreas Thingvad, Rasmus Viskinde, and Mattia Marinelli. 2020. "Characterization of NMC Lithium-Ion Battery Degradation for Improved Online State Estimation." *UPEC 2020 - 2020 55th International Universities Power Engineering Conference, Proceedings*, 3–8. <https://doi.org/10.1109/UPEC49904.2020.9209879>.
- Wachinski, Anthony. 2016. *Environmental Ion Exchange*. Second. Boca Raton London New York: CRC Press.
- Wang, Chao, Shubin Wang, Feng Yan, Zhen Zhang, Xuehua Shen, and Zuotai Zhang. 2020. "Recycling of Spent Lithium-Ion Batteries: Selective Ammonia Leaching of Valuable Metals and Simultaneous Synthesis of High-Purity Manganese Carbonate." *Waste Management* 114: 253–62. <https://doi.org/10.1016/j.wasman.2020.07.008>.
- Wang, Hongyan, Kai Huang, Yang Zhang, Xin Chen, Wei Jin, Shili Zheng, Yi Zhang, and Ping Li. 2017. "Recovery of Lithium, Nickel, and Cobalt from Spent Lithium-Ion Battery Powders by Selective Ammonia Leaching and an Adsorption Separation System." *ACS Sustainable Chemistry and Engineering* 5 (12): 11489–95. <https://doi.org/10.1021/acssuschemeng.7b02700>.

Wang, Shubin, Chao Wang, Fengjiao Lai, Feng Yan, and Zuotai Zhang. 2020.

“Reduction-Ammoniacal *Leaching* to Recycle Lithium, Cobalt, and Nickel from Spent Lithium-Ion Batteries with a Hydrothermal Method: Effect of Reductants and Ammonium Salts.” *Waste Management* 102: 122–30. <https://doi.org/10.1016/j.wasman.2019.10.017>.

Zhang, Xihua, Hongbin Cao, Yongbing Xie, Pengge Ning, Huijiao An, Haixia You, and Faheem Nawaz. 2015. “A Closed-Loop Process for Recycling LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ from the Cathode Scraps of Lithium-Ion Batteries: Process Optimization and Kinetics Analysis.” *Separation and Purification Technology* 150: 186–95. <https://doi.org/10.1016/j.seppur.2015.07.003>.

Zheng, Xiaohong, Wenfang Gao, Xihua Zhang, Mingming He, Xiao Lin, Hongbin Cao, Yi Zhang, and Zhi Sun. 2017. “Spent Lithium-Ion Battery Recycling – Reductive Ammonia *Leaching* of Metals from Cathode Scrap by Sodium Sulphite.” *Waste Management* 60: 680–88. <https://doi.org/10.1016/j.wasman.2016.12.007>.