

- Alam, M. A., Sánchez, P. and Parada, M. Á. (2010) 'Interplay of volcanism and structural control in defining the geothermal system(s) along the Liquiñe-Ofqui Fault Zone, in the south-central Chile', *Transactions - Geothermal Resources Council*, 34 2, pp. 685–688.
- Antônio, M. and Rodrigues, S. (2014) *Electrodialysis and Water Reuse*.
- Ayala-Bribiesca, E., Pourcelly, G. and Bazinet, L. (2006) 'Nature identification and morphology characterization of cation-exchange membrane fouling during conventional electrodialysis', *Journal of Colloid and Interface Science*, 300(2), pp. 663–672. doi: 10.1016/j.jcis.2006.04.035.
- Baker, R. W. (2004) 'Ion exchange membrane processes- electrodialysis'.
- Baker, R. W. (2011) *Membrane technologies and applications, Membrane Technologies and Applications*. doi: 10.1002/0470020393.
- Bohlsen, M. (2020) *Lithium Miners News For The Month Of May 2018*. Available at: <https://seekingalpha.com/article/4177518-lithium-miners-news-for-month-of-may-2018> (Accessed: 3 January 2020).
- Brodholt, J. P. (1998) 'Molecular dynamics simulations of aqueous NaCl solutions at high pressures and temperatures', *Chemical Geology*, 151(1–4), pp. 11–19. doi: 10.1016/S0009-2541(98)00066-7.
- Bunani, S. *et al.* (2017) 'Application of bipolar membrane electrodialysis (BMED) for simultaneous separation and recovery of boron and lithium from aqueous solutions', *Desalination*, 424(September), pp. 37–44. doi: 10.1016/j.desal.2017.09.029.
- Castino, F., Bookhagen, B. and Strecker, M. R. (2017) 'Rainfall variability and trends of the past six decades (1950–2014) in the subtropical NW Argentine Andes', *Climate Dynamics*, 48(3–4), pp. 1049–1067. doi: 10.1007/s00382-016-3127-2.
- Chen, Q. B. *et al.* (2018) 'Development of recovering lithium from brines by selective-electrodialysis: Effect of coexisting cations on the migration of lithium', *Journal of Membrane Science*, 548(8), pp. 408–420. doi: 10.1016/j.memsci.2017.11.040.
- Escobar, I. C. (2010) *Chapter 14 Conclusion: A Summary of Challenges still Facing Desalination and Water Reuse, Sustainability Science and Engineering*. Elsevier. doi: 10.1016/S1871-2711(09)00214-1.

- Flexer, V., Baspineiro, C. F. and Galli, C. I. (2018) 'Lithium recovery from brines: A vital raw material for green energies with a potential environmental impact in its mining and processing', *Science of the Total Environment*, 639, pp. 1188–1204. doi: 10.1016/j.scitotenv.2018.05.223.
- Garrett, D. E. (2004) *Handbook of Lithium and Natural Calcium Chloride Their Deposits, Processing, Uses, and Properties*.
- Glasstone, S. (1994) *Nuclear Reactor Engineering*. 4th edn, *Engineering*. 4th edn.
- Gmar, S. and Chagnes, A. (2019) 'Recent advances on electrodialysis for the recovery of lithium from primary and secondary resources', *Hydrometallurgy*, 189(July), p. 105124. doi: 10.1016/j.hydromet.2019.105124.
- Grosjean, C. *et al.* (2012) 'Assessment of world lithium resources and consequences of their geographic distribution on the expected development of the electric vehicle industry', *Renewable and Sustainable Energy Reviews*, 16(3), pp. 1735–1744. doi: 10.1016/j.rser.2011.11.023.
- Van Der Hoek, J. P. *et al.* (1998) 'Electrodialysis as an alternative for reverse osmosis in an integrated membrane system', *Desalination*, 117(1–3), pp. 159–172. doi: 10.1016/S0011-9164(98)00086-1.
- Hoshino, T. (2013) 'Preliminary studies of lithium recovery technology from seawater by electrodialysis using ionic liquid membrane', *Desalination*, 317, pp. 11–16. doi: 10.1016/j.desal.2013.02.014.
- Hoshino, T. (2015) 'Innovative lithium recovery technique from seawater by using world-first dialysis with a lithium ionic superconductor', *Desalination*, 359, pp. 59–63. doi: 10.1016/j.desal.2014.12.018.
- Hoshino T (2014) 'Lithium recovery electrodialysis ionic liquid membrane technology', *ECS Transactions*, 58(48), pp. 173–177.
- Hosseini, S. M. *et al.* (2012) 'Fabrication of (polyvinyl chloride/cellulose acetate) electrodialysis heterogeneous cation exchange membrane: Characterization and performance in desalination process', *Desalination*, 306, pp. 51–59. doi: 10.1016/j.desal.2012.07.028.
- Hosseini, S. M., Madaeni, S. S. and Khodabakhshi, A. R. (2010) 'Preparation and characterization of ABS/HIPS heterogeneous cation exchange membranes with various blend ratios of polymer binder', *Journal of Membrane Science*, 351(1–2), pp. 178–188. doi: 10.1016/j.memsci.2010.01.045.
- Ji, P. Y. *et al.* (2018) 'Effect of coexisting ions on recovering lithium from high

- Ji, Z. yong *et al.* (2017) 'Preliminary study on recovering lithium from high Mg²⁺/Li⁺ ratio brines by electrodialysis', *Separation and Purification Technology*, 172, pp. 168–177. doi: 10.1016/j.seppur.2016.08.006.
- Kabay, N. *et al.* (2018) *Treatment of geothermal waters for industrial and agricultural purposes*. Geothermal. Edited by Jochen Bundschuh and Barbara Tomaszewska. London, UK: CRC Press/Balkema Taylor & Francis Group.
- Kariduraganavar, M. Y. *et al.* (2006) 'Ion-exchange membranes: preparative methods for electrodialysis and fuel cell applications', *Desalination*, 197(1–3), pp. 225–246. doi: 10.1016/j.desal.2006.01.019.
- Kleperis, J. and Linkov, V. (2012) *Electrolysis*.
- Krol, J. J., Wessling, M. and Strathmann, H. (1999) 'Chronopotentiometry and overlimiting ion transport through monopolar ion exchange membranes', *Journal of Membrane Science*, 162(1–2), pp. 155–164. doi: 10.1016/S0376-7388(99)00134-9.
- Li, X. *et al.* (2019) 'Membrane-based technologies for lithium recovery from water lithium resources: A review', *Journal of Membrane Science*, 591(January), p. 117317. doi: 10.1016/j.memsci.2019.117317.
- Li, Y., Zhao, Y., *et al.* (2019) 'The application of nanofiltration membrane for recovering lithium from salt lake brine', *Desalination*, 468(July), p. 114081. doi: 10.1016/j.desal.2019.114081.
- Li, Y., Zhao, Y. J., *et al.* (2019) 'The application of nanofiltration membrane for recovering lithium from salt lake brine', *Desalination*, 468(July 2018), p. 114081. doi: 10.1016/j.desal.2019.114081.
- Lindstrand, V., Jönsson, A. S. and Sundström, G. (2000) 'Organic fouling of electrodialysis membranes with and without applied voltage', *Desalination*, 130(1), pp. 73–84. doi: 10.1016/S0011-9164(00)00075-8.
- Lindstrand, V., Sundström, G. and Jönsson, A. S. (2000) 'Fouling of electrodialysis membranes by organic substances', *Desalination*, 128(1), pp. 91–102. doi: 10.1016/S0011-9164(00)00026-6.
- Mei, Y. and Tang, C. Y. (2018) 'Recent developments and future perspectives of reverse electrodialysis technology: A review', *Desalination*, 425(October 2017), pp. 156–174. doi: 10.1016/j.desal.2017.10.021.

- Melnikov, S. *et al.* (2017) 'Pilot scale complex electro dialysis technology for processing a solution of lithium chloride containing organic solvents', *Separation and Purification Technology*, 189(July), pp. 74–81. doi: 10.1016/j.seppur.2017.07.085.
- Mizuno, T., Akimoto, T. and Ohmori, T. (2002) 'Confirmation of anomalous hydrogen generation by plasma electrolysis', *Proc. 4th meeting JCF ...*, (February), pp. 1–34. Available at: <http://free-energy-info.com/P3.pdf>.
- Mroczek, E. *et al.* (2015) 'Lithium Extraction from Wairakei Geothermal Fluid using Electro dialysis', (April), pp. 1–6.
- Mulder, M. (2003) *Basic Principles of Membrane Technology*. seconde ed. Kluwer Academic Publishers, Netherlands.
- Murodjon, S. *et al.* (2020) 'Lithium Recovery from Brines Including Seawater , Salt Lake Brine , Underground Water and Geothermal Water', pp. 1–39.
- Murray, P. (1995) *Electrodialysis and Electro dialysis Reversal - Manual of Water Supply Practices, M38 (1st Edition)*, American Water Works Association (AWWA). Available at: http://app.knovel.com/web/toc.v/cid:kpEERMWSP1/viewerType:toc/root_slug:electrodialysis-electrodialysis/url_slug:electrodialysis-electrodialysis?b-q=electrodialysis and electro dialysis reversal-manual&sort_on=default&b-subscription=TRUE&b-group-by=true&b-
- Nie, X. Y. *et al.* (2017) 'Ion-fractionation of lithium ions from magnesium ions by electro dialysis using monovalent selective ion-exchange membranes', *Desalination*, 403, pp. 128–135. doi: 10.1016/j.desal.2016.05.010.
- Opitz, A. *et al.* (2017) 'Can Li-Ion batteries be the panacea for automotive applications?', *Renewable and Sustainable Energy Reviews*, 68(September 2016), pp. 685–692. doi: 10.1016/j.rser.2016.10.019.
- Pauwels, H. and Fouillac, C. (1990) 'LITHIUM RECOVERY FROM GEOTHERMAL WATERS OF CESANO (ITALY) AND CRONEMBOURG (ALSACE , FRANCE)', pp. 117–123.
- Post, J. W. *et al.* (2007) 'Salinity-gradient power: Evaluation of pressure-retarded osmosis and reverse electro dialysis', *Journal of Membrane Science*, 288(1–2), pp. 218–230. doi: 10.1016/j.memsci.2006.11.018.
- Purnomo, B. J. and Pichler, T. (2014) 'Geothermal systems on the island of Java, Indonesia', *Journal of Volcanology and Geothermal Research*, 285, pp. 47–59.

- Rodrigues, M. A. S. *et al.* (2008) 'Application of photoelectrochemical-electrodialysis treatment for the recovery and reuse of water from tannery effluents', *Journal of Cleaner Production*, 16(5), pp. 605–611. doi: 10.1016/j.jclepro.2007.02.002.
- Roy, Y., Warsinger, D. M. and Lienhard, J. H. (2017) 'Effect of temperature on ion transport in nanofiltration membranes: Diffusion, convection and electromigration', *Desalination*, 420(June), pp. 241–257. doi: 10.1016/j.desal.2017.07.020.
- Rybalkina, O. A. *et al.* (2019) 'Evolution of Current–Voltage Characteristics and Surface Morphology of Homogeneous Anion-Exchange Membranes during the Electrodialysis Desalination of Alkali Metal Salt Solutions', *Membranes and Membrane Technologies*, 1(2), pp. 107–119. doi: 10.1134/s2517751619020094.
- Sata, T. (1994) 'Studies on ion exchange membranes with permselectivity for specific ions in electrodialysis', *Journal of Membrane Science*, 93(2), pp. 117–135. doi: 10.1016/0376-7388(94)80001-4.
- Setiawan, F. A. *et al.* (2019) 'Kinetics of silica precipitation in geothermal brine with seeds addition: minimizing silica scaling in a cold re-injection system', *Geothermal Energy*, 7(1). doi: 10.1186/s40517-019-0138-3.
- Setijadji, L. D. (2010) 'Segmented volcanic arc and its association with geothermal fields in Java Island, Indonesia', *Proceedings World Geothermal Congress 2010*, (April), pp. 25–29. Available at: <http://geothermal.ft.ugm.ac.id/wp-content/uploads/2012/12/Segmented-Volcanic-Arc-2010-Lucas.pdf>.
- Siekierka, A., Tomaszewska, B. and Bryjak, M. (2018) 'Lithium capturing from geothermal water by hybrid capacitive deionization', *Desalination*, 436(February 2018), pp. 8–14. doi: 10.1016/j.desal.2018.02.003.
- Song, Y. and Zhao, Z. (2018) 'Recovery of lithium from spent lithium-ion batteries using precipitation and electrodialysis techniques', *Separation and Purification Technology*, 206(May), pp. 335–342. doi: 10.1016/j.seppur.2018.06.022.
- Strathmann, H. (1995) 'Chapter 6 Electrodialysis and related processes', *Membrane Science and Technology*, 2(C), pp. 213–281. doi: 10.1016/S0927-5193(06)80008-2.
- Strathmann, H. (2000) 'Electrodialysis', pp. 1707–1717.
- Strathmann, H. (2004) 'Ion-exchange membrane separation processes', *Separation and Purification Technology*, 9(1). doi: 10.1016/j.seppur.2004.05.007.

- Strathmann, H. (2010) 'Electrodialysis, a mature technology with a multitude of new applications', *Desalination*, 264(3), pp. 268–288. doi: 10.1016/j.desal.2010.04.069.
- Sumaatmadja, N. (1988) *Studi Geografi Suatu Pendekatan dan Analisa Keruangan*. Alumni. Bandung.
- Sun Koo, J., Kwak, N. S. and Hwang, T. S. (2012) 'Synthesis and properties of an anion-exchange membrane based on vinylbenzyl chloride-styrene-ethyl methacrylate copolymers', *Journal of Membrane Science*, 423–424, pp. 293–301. doi: 10.1016/j.memsci.2012.08.024.
- Swain, B. (2017) 'Recovery and recycling of lithium: A review', *Separation and Purification Technology*, 172, pp. 388–403. doi: 10.1016/j.seppur.2016.08.031.
- Talens Peiró, L., Villalba Méndez, G. and Ayres, R. U. (2013) 'Lithium: Sources, production, uses, and recovery outlook', *Jom*, 65(8), pp. 986–996. doi: 10.1007/s11837-013-0666-4.
- Tanaka, Y. (2007) 'Ion Exchange Membranes - Fundamentals and Applications', *Membrane Science and Technology*, 12(07), pp. 293–317. doi: 10.1016/S0927-5193(07)12014-3.
- Tanaka, Y. (2015) *Electrodialysis, Progress in Filtration and Separation*. Elsevier Ltd. doi: 10.1016/B978-0-12-384746-1.00006-9.
- Tielrooij, K. J. *et al.* (2010) 'Cooperativity in ion hydration', *Science*, 328(5981), pp. 1006–1009. doi: 10.1126/science.1183512.
- Tomaszewska, B. and Szczepa, A. (2014) 'Possibilities for the efficient utilisation of spent geothermal waters', (Szewczyk 2010). doi: 10.1007/s11356-014-3076-4.
- Valero, F., Barcelo, A. and Arbos, R. (2011) 'Electrodialysis Technology - Theory and Applications. Desalination, Trends and Technologies', *Mean Field Simulation for Monte Carlo Integration*, pp. 85–124. doi: 10.1201/b14924-7.
- Vermaas, D. A. *et al.* (2012) 'Theoretical power density from salinity gradients using reverse electrodialysis', *Energy Procedia*, 20, pp. 170–184. doi: 10.1016/j.egypro.2012.03.018.
- Walha, K. *et al.* (2007) 'Brackish groundwater treatment by nanofiltration, reverse osmosis and electrodialysis in Tunisia: performance and cost comparison', *Desalination*, 207(1–3), pp. 95–106. doi: 10.1016/j.desal.2006.03.583.
- Wiśniewska, M. *et al.* (2018) 'Investigations of the possibility of lithium acquisition from geothermal water using natural and synthetic zeolites applying poly(acrylic

10.1016/j.jclepro.2018.05.287.

- Xie, H., Saito, T. and Hickner, M. A. (2011) 'Zeta Potential of Ion-Conductive Membranes by Streaming Current Measurements', pp. 4721–4727.
- Yamaguchi, T. *et al.* (2010) 'Ion hydration in aqueous solutions of lithium chloride, nickel chloride, and caesium chloride in ambient to supercritical water', *Journal of Molecular Liquids*, 153(1), pp. 2–8. doi: 10.1016/j.molliq.2009.10.012.
- Yan, Z., Chen, L. and Wang, H. (2008) 'Hydrogen generation by glow discharge plasma electrolysis of ethanol solutions', *Journal of Physics D: Applied Physics*, 41(15). doi: 10.1088/0022-3727/41/15/155205.
- Zabolotskii, V. I. *et al.* (2013) 'Effect of concentration polarization on electro-dialytic concentrating of dilute NaCl and NH₄NO₃ solutions', *Russian Journal of Electrochemistry*, 49(6), pp. 563–570. doi: 10.1134/S1023193513060153.
- Zhang, H. *et al.* (2012) 'Lithium recovery techniques from solid and liquid mineral resources', *Advanced Materials Research*, 549, pp. 528–531. doi: 10.4028/www.scientific.net/AMR.549.528.
- Zhang, Y. *et al.* (2020) 'Membrane technologies for Li⁺/Mg²⁺ separation from salt-lake brines and seawater: A comprehensive review', *Journal of Industrial and Engineering Chemistry*, 81, pp. 7–23. doi: 10.1016/j.jiec.2019.09.002.
- Zhao, L. *et al.* (2018) 'Chemical Engineering Research and Design Separating and recovering lithium from brines using selective-electrodialysis: Sensitivity to', *Chemical Engineering Research and Design*, 140(8), pp. 116–127. doi: 10.1016/j.cherd.2018.10.009.
- Zhao, L. M. *et al.* (2018) 'Separating and recovering lithium from brines using selective-electrodialysis: Sensitivity to temperature', *Chemical Engineering Research and Design*, 140(8), pp. 116–127. doi: 10.1016/j.cherd.2018.10.009.
- Zhou, Y. *et al.* (2018) 'Electrodialytic concentrating lithium salt from primary resource', *Desalination*, 425(October 2017), pp. 30–36. doi: 10.1016/j.desal.2017.10.013.