

## Bibliography

- Amara, M. and Kerdjoudj, H., Modified cation exchange resin applied to demineralization of a liquid industrial waste. Comparison to a classical treatment and electrodialysis. *Hydrometallurgy* 65, 2002, 59- 68.
- Amarasinghe, B.M.W.P.K. and De Silva, I.M.B.M., Application of membrane separation processes to the Sri Lankan industry. Engineering research unit symposium, 2000.
- Audinos, R., Improvement of metal recovery by electrodialysis. *Journal of membrane science* 27, 1986, 143-154.
- Bailly, M., Roux-de, H., Aimar, B., Lutin, F. and Cheryan, M., Production processes of fermented organic acids targeted around membrane operations: design of the concentration step by conventional electrodialysis. *Journal of Membrane Science* 191, 2001, 129-142.
- Chakravorty, B., Mukherjee, R. N. and Basu, S., Synthesis of ion-exchange membranes for electrodialytic treatment of industrial effluents. *Desalination* 46, 1983, 353- 360.
- Cherif, A. T., Elmidaoui, A. and Gavach, C., Separation of  $\text{Ag}^+$ ,  $\text{Zn}^{2+}$  and  $\text{Cu}^{2+}$  ions by electrodialysis with a monovalent cation specific membrane and EDTA. *Journal of Membrane Science* 76, 1993, 39 – 49.
- Conner, J. R., Chemical fixation and solidification of hazardous wastes. 1990, Van Nostrand Reinhold, New York.
- Cremisinoff and Paul, N., Waste Minimization and Cost Reduction for the process industries. Noyes Publications, 1995, Park Ridge, New Jersey, p. 224.
- Dokken, K., Gamez, G., Herrera, I., Tiemann, K.J., Pingitore, N.E., Chianelli, R.R. and Gardea-Torresdey, J.L., Characterization of chromium (vi) bioreduction and chromium (iii) binding to alfalfa biomass. Proceedings of the 1999 Conference on hazardous waste research.
- Duffus, J. H., “Heavy metals”-A meaningless term. *Chemistry international*, 2001, Vol.23, November.
- Environmental Protection Agencies (EPA) Ground water Issue, Phytoremediation of contaminated soil and groundwater at hazardous waste sites. 2001.

- Ernst, W.H.O. Bioavailability of heavy metals and decontamination of soils by plants. *Applied Geochemistry*, 1996, 11(1/2): 163-167.
- Evanko, C. R., Dzombak, D. A., Remediation metals-contaminated soils and groundwater. *Technology Evaluation Report*, TE-97-01.Ground-water Remediation Technologies analysis center, 1997, Pitts burgh. PA.
- Fatoki, O.S. and Ogunfowokan, A.O., Effect of coagulant treatment on the metal composition of raw water. *Water SA*, 2002, 293-297.
- Friedland, A.J., and Shaw, A.J., Heavy Metal Tolerance in Plants: Evolutionary Aspects. Ed.; CRS Press: Boca Raton, FL, 1990; 7-19.
- Garbisu, C. and Alkorta, I., Phytoextraction: a cost-effective plant-based technology for the removal of metals from the environment. *Bio Resource Technology*, 2001, 229-236.
- Guidelines for drinking water quality, 2<sup>nd</sup> ed. Addendum to vol. 2. Health criteria and other supporting information. Geneva, World health Organization, 1998, pp. 31-46.
- Gunawardhana, W. D. D. H., Jayaweera, M.W. and Kasturiarachchi, J.C., Heavy metal levels of groundwater in Ratmalana Moratuwa industrial area: a comprehensive survey carried out in 2002. Paper presented at the Engineering Research Unit (ERU) Symposium 2002, University of Moratuwa, Sri Lanka.
- Hazardous Waste Consultant, Remediating soil and sediment contaminated with heavy metals. Elsevier science, 1996, Nov/Dec, Netherlands.
- Hwang, G.J., Ohya, H. and Nagai, T., Ion exchange membrane based on block copolymers. Part III: preparation of cation exchange membrane. *Journal of Membrane Science* 156, 1999, 61-65.
- Itoi, S., Nakamura, I. and Kawahara, T., Electrodialytic recovery process of metal finishing wastewater. *Desalination*, 1980, 383- 389.
- Janssen, L.J.J. and Koene, L., The role of electrochemistry and electrochemical technology in environmental protection. *Chemical Engineering Journal* 85, 2002, 137-146.
- Juang, R. and Lin, L., Treatment of complexed copper (II) solutions with electrochemical membrane processes. *Wat. Res.* Vol. 34, No. 1, 2000, pp. 43-50.

- Karra, S., Haas, C., Tare, V. and Allen, H., Kinetic limitations on the selective precipitation treatment of electronics wastes. Water, Air and Soil Pollution 24, 1985, 253 - 265.
- Katsoyiannis, I.A. and Zouboulis, Application of biological processes for the removal of arsenic from groundwater. Water Research, 2004, 17-26.
- Kesore, K., Janowski, F. and Shaposhnik, V. A., Highly effective electrodialysis for selective elimination of nitrate from drinking water. Journal of Membrane Science 127, 1997, 17 – 24.
- Krol, J. J., Monopolar and Bipolar ion exchange membranes. Mass transport limitations, 1997.
- Lee, H. J., Sarfert, F., Strathmann, H. and Moon, S. H., Designing of an electrodialysis desalination plant. Desalination 142, 2002, 267 – 286.
- Lee, H.J., Moon, S.H. and Tsai, S.P., Effects of pulsed electric fields on membrane fouling in electrodialysis of NaCl solution containing humate. Separation and purification technology 27, 2002, 89 – 95.
- Leitz, F.B., Measurements and control in electrodialysis. Desalination, 1986, 381-401.
- Li, C. L., Zhao, H. X., Tsura, T., Zhou, D. and Matsumura, M., Recovery of spent electroless nickel plating bath by electrodialysis. Journal of Membrane Science 157, 1999, 241- 249.
- Lindstrand, V., Sundstrom, G. and Jonsson, A. S., Fouling of electrodialysis membranes by organic substances. Desalination 128, 2000, 91 – 102.
- Mahajan, S.P., Pollution control in process industries. Indian institute of technology, 1985, Bombay.
- Masters, G.M., Introduction to environmental engineering and science, 1998, Second edition.
- Mulligan, C. N., Yong, R. N. and Gibbs, B. F., Remediation technologies for metal-contaminated soils and groundwater: an evaluation. Engineering Geology, 2001, 193-207.
- Nedelkoska, T.V. and Doran, P.M., Characteristics of heavy metal uptake by plant species with potential for phytoremediation and phytomining, 1998, Vol.13, No.5, 549-561.

- Negri, M. C. and Hinchman, R. R., Plants that remove contaminants from the environment. *Lab. Medicine*, 1996, 27(1), 36-40.
- Patterson J. W., Industrial wastewater treatment technology. 2<sup>nd</sup> edition. Butterworth Publishers, Boston, 1985, U. S. A.
- Pendias, H. and Kabata-Pendias, A., Trace elements in soils and plants. CRS Press: Boca Raton, FL.
- Pilat, B., Practice of water desalination by electrodialysis. *Desalination* 139, 2001, 385-392.
- Qu, J.X., and Liu, S.M., Electrode for electrodialysis. *Desalination* 46, 1983, 233-242.
- Quek, S. Y., Wase, D. A. J., and Forster, C.F., The use of sago waste for the sorption of lead and copper. *Water SA*, 1998, Vol 24, NO. 3, 251 – 256.
- Rao, J.R., Presad, B. G. S., Narasimhan, V., Ramasami, T., Shah, P. R. and Khan, A. A., Electrodialysis in the recovery and reuse of chromium from industrial effluents. *Journal of Membrane Science* 46, 1989, 215- 224.
- Rapp, H.J. and Pfromm,P.H., Electrodialysis for chloride removal from chemical recovery cycle of a kraft pulp mill. *Journal of membrane science* 146, 1998, 249-261.
- Roberts, L.C., Hug, S.J., Ruktimann, T., Billah, M.D.M., Khan, A.W. and Rahman, M.T., Arsenic removal with iron (ii) and iron (iii) in waters with high silicate and phosphate concentrations. *Environmental Science and Technology*, 2004, 38: 307-315.
- Rockstraw, D. A. and Montoya, M., Micellar- Enhanced Electrodialysis, Technical completion report, New Maxico, waste- management education & research consortium, Dec 1997.
- Rodrigues, M. A. S., Dalla Costa, R. F., Bernardes, A. M. and Ferreira, J. Z., *Electrochimica Acta* 47, 2001, 753 – 758.
- Rodsand, T. and Acar, Y. B., Electrokinetic extraction of lead from spiked Norwegian marine clay. *Geoenvironment 2000-2*, 1995, 1518-1534.
- Scott, K. and Hughes, R., Industrial membrane separation technology. Chapman and Hall, UK, 1996.
- Scott, K., Hand book of industrial membranes, 1<sup>st</sup> edition, Elsevier Advanced tech.,Oxford, UK, 1995.

- Shaposhnik, V.A. and Kesore, K., An early history of electrodialysis with permselectivity membranes. Journal of Membrane Science 136, 1997, 35- 39.
- Spoor, P. B., Grabovska, L., Koene, L., Janssen, L. J. J. and Veen, W. R., Pilot scale deionisation of a galvanic nickel solution using a hybrid ion-exchange/electrodialysis system. Chemical Engineering Journal 89, 2002, 193- 202.
- Srinivasan, P.T., Viraraghavan, T. and Subramanian, K.S., Aluminium in drinking water:An overview. Water SA, 1999, Vol. 25.
- Thanaka, Y., Mass transport and energy consumption in ion exchange membrane electrodialysis of seawater. Journal of Membrane Science 215, 2003, 265 – 279.
- Tongwen, X. and. Weihua, Y., Fundamental studies of a new series of anion exchange membranes: membrane preparation and characterization. Journal of Membrane Science 190, 2001, 159 – 166.
- Toshikatsu, S., Studies on ion exchange membranes with permselectivity for specific ions in electrodialysis. Journal of Membrane Science 93, 1994, 117-135.
- Trivedy, R. K., Pollution management in industries, 1989.
- United State Environmental Protection Agencies (USEPA). Selection of control technologies for remediation of soil contaminated with Arsenic, Cadmium, Chromium, Lead or Mercury. Revised Draft Engineering Bulletin, 1994, January 312.
- Vidac, R. D. and Pohland, F. G., Treatment walls. Technology evaluations report TE-96-01, Groundwater remediation technologies analysis center, 1996, Pittsburgh, PA.
- Water Environment Federation (WEF). Pretreatment of industrial wastes: Manual of practice FD-3, 1994, Alexandria.
- Ye Z.H., Whiting S.N., Qian J.H., Lytle C.M., Lin Z.Q. and Terry N., Trace element removal from coal ash leachate by a 10 year old constructed wetland,Wetlands and Aquatic Processes. Journal of environmental Quality, Vol. 30, 2001.
- Yu, Z. and Admassu, W., Modeling of electrodialysis of metal ion removal from pulp and paper mill process stream. Chemical Engineering Science 55, 2000, 4629 – 4641.
- Zinkus, G.A. and Byeres, W.D., Identify appropriate water reclamation technologies. Chemical engineering progress, May 1998.

