

Tomografía de Electroresistividad y análisis fisicoquímicos en acuíferos costeros permiten explicar toxicidad en RAS por desequilibrios redox de metales anfóteros

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- Bania, G. 2018. ERT method in the study of chemical pollution of the hydrogeological environment-numerical analysis of 2D and 3D models. In E3S Web of Conferences (Vol. 66, p. 01007). EDP Sciences.
- Goebel, M., Pidlisecky, A., & Knight, R. 2017. Resistivity imaging reveals complex pattern of saltwater intrusion along Monterey coast. *Journal of hydrology*, 551: 746-755.
- Helle, T. & Pessot, C. 2020. Aplicación de Tecnología y métodos geoelectrónicos para la detección de Acuíferos Subterráneos y Discriminación de Calidad de Agua para la Acuicultura. *Salmonexpert*, 89: 48-54.
- Humphreys, W., Watts, C., Cooper, S. & Leijes, R. 2009. Groundwater estuaries of salt lakes: Buried pools of endemic biodiversity on the Western Plateau, Australia. *Hydrobiologia*, 626: 79-95.
- Liu, Y., Jiao, J. & Liang, W. 2017. Tidal fluctuation influenced physicochemical parameter dynamics in coastal groundwater mixing zone. *Estuaries and Coasts*, 41: 988-1001.
- Mohamaden, M., Hamouda, A. & Mansour, S. 2016. Application of electrical resistivity method for groundwater exploration at the Moghra area, Western Desert, Egypt. *The Egyptian Journal of Aquatic Research*, 42: 261-268.
- Nijjer, S., Thonstad, J. & Haarberg, G. 2000. Oxidation of manganese(ii) and reduction of manganese dioxide in sulphuric acid. *Electrochimica Acta*, 46: 395-399.
- Pessot, C. 2018. Aluminio presente en Agua Dulce del Sur de Chile, una Variable de Calidad de Agua Analíticamente Subestimada, y un Mecanismo Novel de Acción Tóxica Responsable de Pérdidas Productivas en Salmonicultura. *Salmonexpert*: 66: 62-69.
- Porter, S. 1981. Pleistocene Glaciation in the Southern Lake District of Chile. *Quaternary Research*, 16: 263-292.
- Rolia, E. & Sutjningsih, D. 2018. Application of geoelectric method for groundwater exploration from surface (A literature study). *AIP Conf Proc*, 1977: 020018.
- Rosso, K. & Morgan, J. 2002. Outer-sphere electron transfer kinetics of metal ion oxidation by molecular oxygen. *Geochimica Et Cosmochimica Acta*, 66: 4223-4233.
- Santore, R., R. Mathew, P. Paquin & D. DiToro. 2002. Application of the biotic ligand model to predicting zinc toxicity to rainbow trout, fathead minnow, and *Daphnia magna*. *Comp. Biochem. Physiol., Part C*, 133: 271-285.
- Ward, D., D. Ward, D. Strom & D. Jolley. 2012. Oxidation of Volatile Sulfide in Surface Sediments Increases the Release and Toxicity of Copper to the Benthic Amphipod *Melita Plumulosa*. *Chemosphere*, 88: 953-961.
- Yu, L., D. Eaton & M. Helms. 2007. Effect of divalent heavy metals on epithelial Na channels in A6 cells. *Am. J. Physiol. Renal. Physiol.*, 293: F236-F244.