
5.4-REFERENCIAS BIBLIOGRAFICAS

- Arai, Y.; Sparks, Y., Sparks, D. L. (2001), ATR–FTIR Spectroscopic Investigation on Phosphate Adsorption Mechanisms at the Ferrihydrite-Water Interface, *J. Colloid Interface Sci.* **241**, 317-326.
- Barja, B. C.; Dos Santos Afonso, M. (1998), An ATR-FTIR study of glyphosate and its Fe(III) complex in aqueous solution, *Environ. Sci. Technol.* **32**, 3331-3335.
- Barja, B. C.; Dos Santos Afonso, M. (2005), Aminomethylphosphonic acid and glyphosate adsorption onto goethite: A comparative study, *Environ. Sci. Technol.* **39**, 585-592.
- Barja, B. C.; Tejedor-Tejedor, M. I.; Anderson, M. A. (1999), Complexation of methylphosphonic acid with the surface of goethite particles in aqueous solution, *Langmuir* **15**, 2316-2321.
- Chapman, A. C.; Thirlwell, L. E. (1964), Spectra of phosphorus compounds- I. The infrared spectra of orthophosphates, *Spectrochimica Acta* **20**, 937-947.
- Deluchat, V.; Bollinger, J. C.; Serpaud, B.; Caullet, C. (1997), Divalent cations speciation with three phosphonate ligands in the pH-range of natural waters, *Talanta* **44**, 897-907.
- Fahrenfort, J. (1961), Attenuated total reflection. A new principle for the production of useful infra-red reflection spectra of organic compounds, *Spectrochimica Acta* **17**, 698-709.
- Gong, W. (2001), A real-time in-situ ATR-FITIR spectroscopic study of linear phosphate on titania surfaces, *Int. J. Miner. Process.* **63**, 147-165.
- Guan, X-H.; Liu, Q.; Chen, G-H.; Shang, C. (2005), Surface complexation of condensed phosphate to aluminum hydroxide: An ATR-FTIR spectroscopic investigation, *J. Colloid Interface Sci.* **289**, 319-327.
- Guan, X-H.; Shang, C.; Zhu, J.; Chen, G-H. (2006), ATR-FTIR investigation on the complexation of myo-inositol hexaphosphate with aluminum hydroxide, *J. Colloid Interface Sci.* **293**, 296-302.
- Harrick, N. J. (1961), Study of physics and chemistry of surfaces from frustrated total internal reflections, *Physical Review Letters* **4**, 224-226.

- Hind, A. R.; Bhargava, S. K.; McKinnon, A. (2001), At the solid/liquid interface: FTIR/ATR-the tool of choice, *Adv. Colloid Interface Sci.* **93**, 91-114.
- Hug, S. (1997), *In Situ* Fourier Transform Infrared Measurements of Sulfate Adsorption on Hematite in Aqueous Solutions, *J. Colloid Interface Sci.* **188**, 415-422.
- Hug, S. J.; Sulzberger, B. (1994), In situ Fourier Transform Infrared Spectroscopic Evidence for the Formation of Several Different Surface Complexes of Oxalate on TiO₂ in the Aqueous Phase, *Langmuir* **10**, 3587-3597.
- Karliček, R.; Majer, J.; Polakovičová, J. (1970), New complexanes. XXI. Complex-forming properties of the N,N-Bis(2-hydroxyethyl)aminomethylphosphonic acid, *Chem. Zvesti* **24**, 161-172.
- Kuys, K. J.; Roberts, N. K. (1987), In situ investigation of the adsorption of styrene phosphonic acid on cassiterite by FTIR-ATR spectroscopy, *Coll. Surf.* **24**, 1-18.
- Laiti E.; Persson P.; Öhman, L. O. (1996), Surface Complexation and Precipitation at the H⁺-Orthophosphate-Aged γ -Al₂O₃/Water Interface, *Langmuir* **12**, 2969-2975.
- Laiti E.; Persson P.; Öhman, L. O. (1998), Balance between surface complexation and surface phase transformation at the alumina/water interface, *Langmuir* **14**, 825-831.
- Nakamoto, K. (1986), Infrared and Raman spectra of inorganic and coordination compounds, Wiley, New Cork.
- Nowack, B.; Stone, A. T. (1999), Adsorption of phosphonates onto the goethite-water interface, *J. Colloid Interface Sci.* **214**, 20-30.
- Nyquist, R. A.; Kagel, R. O. (1971), Infrared spectra of inorganic compounds (3800-45 cm⁻¹), Academic Press, Inc., New York.
- Ostergren, J. D.; Trainor, T. P.; Bargar, J. R.; Brown, G. E.; Parks, G. A. (2000), Inorganic Ligand Effects on Pb(II) Sorption to Goethite (α -FeOOH) I. Carbonate, *J. Colloid Interface Sci.* **225**, 466-482.
- Persson, P.; Laiti, E.; Öhmann, L. O. (1997), Vibration spectroscopy study of phenilphosphonate at the water-aluminum (Hydr) oxide interface, *J. Colloid Interface Sci.* **190**, 341-349.
- Persson, P.; Nilsson, N.; Sjöberg, S. (1996), Structure and bonding of orthophosphate ions at the iron oxide-aqueous interface, *J. Colloid Interface Sci.* **177**, 263-275.
- Popov, K.; Rönkkömäki, H.; Lajunen, L. H. J. (2001), Critical evaluation of stability constant of phosphonic acid, *Pure Appl. Chem.* **73**, 1641-1677.

- Sheals, J.; Persson, P.; Hedman, B. (2001), IR and EXAFS Spectroscopic Studies of Glyphosate Protonation and Copper(II) Complexes of Glyphosate in Aqueous Solution, *Inorg. Chem.* **40**, 4302-4309.
- Sheals, J.; Sjöberg, S.; Persson, P. (2002), Adsorption of glyphosate on goethite: Molecular characterization of surface complexes, *Environ. Sci. Technol.* **36**, 3090-3095.
- Su, C.; Suarez, D. L. (1995), Coordination of adsorbed boron: A FTIR spectroscopic study, *Environ. Sci. Technol.* **29**, 302-311.
- Su, C.; Suarez, D. L. (1997), In situ infrared speciation of adsorbed carbonate on aluminum and iron oxides, *Clay Clay Miner.* **45**, 814-825.
- Su, C.; Suarez, D. L. (2000), Selenate and Selenite Sorption on Iron Oxides. An Infrared and Electrophoretic Study, *Soil Sci. Soc. Am. J.* **64**, 101-111.
- Tejedor-Tejedor, M. I.; Anderson, M. A. (1986), "In Situ" Attenuated Total Reflection Fourier Transform Infrared Studies of the Goethite (α -FeOOH)-Aqueous Solution Interface, *Langmuir* **2**, 203-210.
- Tejedor-Tejedor, M. I.; Anderson, M. A. (1990), The protonation of phosphate on the surface of goethite as studied by CIR-FTIR and electrophoretic mobility, *Langmuir* **6**, 602-611.
- Villalobos, M.; Leckie, J. O. (2001), Surface Complexation Modeling and FTIR Study of Carbonate Adsorption to Goethite, *J. Colloid Interface Sci.* **235**, 15-32.
- Zenobi, M. C.; Hein, L.; Rueda, E. (2005), The effects of 1-hydroxyethane-(1,1-diphosphonic acid) on the adsorptive partitioning of metal ions onto γ -AlOOH, *J. Colloid Interface Sci.* **284**, 447-454.