

1. **Nonequilibrium dynamics of a singlet-triplet Anderson impurity near the quantum phase transition.** P. Roura-Bas , A. A. Aligia. J. Phys.: Condens. Matter 22 , 025602 (2010).
2. **Nanotubes of rare earth cobalt oxides for cathodes of intermediate-temperature solid oxide fuel cells.** J. Sacanell, A. G. Leyva, M.G. Bellino, D.G. Lamas. Journal of Power Sources 195 (2010) 1786–1792
3. **Kondo behavior of anisotropic single atomic spins on a Cu 2N molecular layer.** M. A. Barral, P. Roura-Bas , A. M. Llois, and A. A. Aligia Phys. Rev. B 82 , 125438 (2010)
4. **Universal scaling in transport out of equilibrium through a single quantum dot using the noncrossing approximation.** P. Roura-Bas. Phys. Rev. B 81 , 155327 (2010)
5. **Frictional forces between strongly compressed, non-entangled polymer brushes: Molecular dynamics simulations and scaling theory,** A. Galuschko, L. Spirin, T. Kreer, A. Johner, C. Pastorino, J. Wittmer, and J. Baschnagel. Langmuir 26 , p. 6418 (2010)
6. **Anisotropic magnetoresistance in manganites: experiment and theory.** J D Fuhr , M Granada , L B Steren y B Alascio J. Phys.: Condens. Matter 22 146001 (2010)
7. **Direct observation of electronic inhomogeneities induced by point defect disorder in manganite films.** M. Sirena, A. Zimmers, N. Haberkorn, E. Kaul, L. B. Steren, J. Lesueur, T. Wolf, Y. Le Gall and J.-J. Grob and G. Faini. J. Appl. Phys. 107, 113903 (2010)
8. **[Size effects on the phase coexistence in MnAs/GaAs\(001\) ribbons](#)** . M. Tortarolo, M. Sirena, J. Milano, L. B. Steren, F. Vidal, B. Rache Salles, V. H. Etgens, M. Eddrief, G. Faini, and L. I. Pietrasanta. Phys. Rev. B 81, 224406 (2010)
9. **[Influence of ion implantation on the magnetic and transport properties of manganite films](#)** M. Sirena, A. Zimmers, N. Haberkorn, E. E. Kaul, L. B. Steren, J. Lesueur, T. Wolf, Y. Le Gall, J.-J. Grob, and G. Faini. Phys. Rev. B 81, 134439 (2010).
10. **Magnetoresistance effects in (La,Sr)MnO3 bicrystalline films.** G. Alejandro, L.B. Steren, H. Pastoriza, D. Vega, M. Granada, J.C. Rojas Sanchez, M. Sirena, B. Alascio. J. Phys. Condensed Matter. 22 346007 (2010)
11. **Characterization of corrosion products of a carbon steel screw-nut set exposed to mountain weather conditions.** C.P. Ramos, G. Duffó, S. Farina, M. Lauretta and C. Saragovi. Hyperfine Interactions 195/1, 117-126, (2010)
12. **Mössbauer Spectroscopy analysis on a tempered martensitic 9 % Cr steel.** C. P. Ramos, A. Sztrajmann, R. Bianchi, C. A. Danón and C. Saragovi. Hyperfine Interactions 195/1, 257-263, (2010)
13. **Zoledronate complexes. I. Poly[[μ2-aqua[μ3-1 hydroxy-2-(1H,3H-imidazol-3-ium-1-yl)ethylidenediphosphonato]potassium(I)] monohydrate].** E. Freire, Vega D. and Baggio R. Acta Cryst. (2010) Sección C. Vol 66, m13-m16.
14. **Zoledronate complexes. II. atena-Poly[[tetraaquabis[hemihydrogen μ3-1-hydroxy-2-(imidazol-3-ium-1-yl)ethylidene-1,1-diphosphonato κ3O:O_:O_]bis[μ3-1-hydroxy-2-(imidazol-3-ium-1-yl)ethylidene-1,1-diphosphonato-κ4O:O,O_:O_]trisodium] hydrate].** E. Freire, Vega D. and Baggio R., Acta Cryst. (2010) Sección C. Vol 66, m122-m126.

- 15., **Zoledronate complexes. III. Two oledronate complexes with alkaline earth metals: Mg(C₅H₉N₂O₇P₂)₂(H₂O)₂] and Ca(C₅H₈N₂O₇P₂)(H₂O)] n.** E. Freire, Vega D. and Baggio R. Acta Cryst. (2010) Sección C. Vol 66, m166-m170.
16. **Thermal and physical properties of B2 Al-Ir-X (X = Ni, Ru, Pd, Co, Fe) alloys.** M.F.del Grosso, H.O.Mosca, G.Bozzolo. Intermetallics 18, 945–953 (2010)
17. **Cure kinetics and swelling behaviour in polybutadiene rubber.** A. J. Marzocca, A.L. Rodriguez Garraza, P.Sorichietti and H.O.Mosca. Polymer Testing 29, 477-482 (2010)
18. **Atomistic modeling of the formation and stability of Ni and V nanowires on a stepped Rh(553) substrate.** D.C.Kara, M.S.Drexel, G.Bozzolo, H.O.Mosca International Journal of Nanoscience. 9, 1-10 (2010)
19. **Spontaneous symmetry breaking and first-order phase transitions of adsorbed fluids.** S. A. Sartarelli; L. Szybisz; I. Urrutia. Int. J. Bifurcation and chaos.: World Scientific. vol.20 n°. p . (2010)
20. **Statistical Mechanics of two hard spheres in a spherical pore, exact analytic results in D dimension;** I. Urrutia , L. Szybisz J. Math. Phys. AIP: vol.51 n°3. p33303 - 33330. (2010).
21. **Two hard spheres in a pore: Exact statistical mechanics for different shaped cavities.** I. Urrutia , J. Chem. Phys. vol.133 n°. p104503 - 104529.(2010)
22. **Co-doped Ceria: Tendency towards ferromagnetism driven by oxygen vacancies** [V. Ferrari](#), [A. M. Llois](#), [V. Vildosola](#) , Journal of Physics: Condensed Matter, 22 (2010) 276002 .
23. **Modeling of stable and metastable structures of Co, Cr, or Fe deposited on Ag(100) substrates.** A.Canzian, G,Bozzolo and H.O.Mosca. Thin Solid Films. En prensa.
24. **Surface properties, thermal expansion, and segregation in the U-Zr solid solution** G. Bozzolo, H.O. Mosca, A.M. Yacout, G.L.Hofman and Y.S.Kim. Computational materials Science. En prensa
25. **Lanthanides migration in U-Zr based nuclear fuels.** G. Bozzolo, H. O. Mosca, A. M. Yacout, G. L. Hofman Journal Nuclear Materials Aceptado
26. **Structural and magnetic properties of a mechanochemically activated Ti-Fe₂O₃ solid mixture.** A.A. Cristóbal, C.P. Ramos, P.G. Bercoff, S. Conconi, E.F. Aglietti, P.M. Botta and J. M. Porto López. Materials Research Bulletin (2010) En prensa
27. **Monte Carlo study of molecular weight distribution changes induced by degradation of ion beam irradiated polymers;** V.C. Chappa, C. Pastorino, M.F. del Grosso, C.R. Arbeitman, M. Müller, G. García Bermúdez. Nucl. Instr. and Meth. B (2010). En prensa.
28. **Effects of vertex corrections on diagrammatic approximations applied to the study of transport through a quantum dot.** Leandro Tosi, P. Roura-Bas , A. M. Llois and L. O. Manuel Phys. Rev. B (2010). En prensa
29. **Electronic and magnetic properties of NiPd and CoPd nanostructures,** J. Guevara, A. M. Llois, F. Aguilera-Granja y J.M. Montejano-Carrizales, Revista Mexicana de Física 56, 21 (2010)

30. [*Hysteresis switching loops in Ag-manganite memristive interfaces.*](#) N. Ghenzi, M. J. Sánchez, F. Gomez-Marlasca, P. Levy, and M. J. Rozenberg. *J. Appl. Phys.* **107**, 093719 (2010)
31. [*Mechanism for bipolar resistive switching in transition-metal oxides.*](#) M. J. Rozenberg, M. J. Sánchez, R. Weht, C. Acha, F. Gomez-Marlasca, and P. Levy. *Phys. Rev. B* **81**, 115101 (2010)
32. *Metamagnetic transitions for magnetic refrigeration*, M. Quintero, J. Sacanell, L. Ghivelder, M. Gomes, A. G. Leyva, and F. Parisi. *App. Phys. Letters* **97**, 121916 (2010).
33. *Correlated dynamics of water and amphiphilic molecules in thin Newton black films*, S. Di Napoli and Z. Gamba, *J. Chem. Phys.* **132**, 075101 (2010).
34. *Ab initio study of magnetism at the TiO₂/LaAlO₃ interface* M.Weissmann, V.Ferrari and A.Saul, *J.Mat.Sci* **45**, 4945 (2010).
35. “*Solid State forms of Zoledronic Acid: polymorphism in hydrates.*” R. Ruscica, M. Bianchi, M. Quintero, A. Martinez, D. R. Vega, *Journal of Pharmaceutical Sciences*, **99** [12], 4962-4972, (2010).
36. “*Aging Driven Decomposition in Zolpidem Hemitartrate Hemihydrate and the Single Crystal Structure of its Decomposition Products.* D. R. Vega, R. Baggio, D. Tombari, M. Roca . *Journal of Pharmaceutical Sciences*. En prensa
37. *Control of chemical reactions using external electric fields: The case of the LiCN isomerization.* G. E. Murgida, D. A. Wisniacki, P. I. Tamborenea y F. Borondo. *Chem. Phys. Lett.* **496**, 356, (2010)
38. *Vibrational modes of rare-earth formats.* E. Silva, M. Moura, A. Ayala, I. Guedes, G. Polla, D. Vega, D. Tobia, M. Saleta. *Journal of Raman Spectroscopy*, en prensa