

Producción Científica del personal del Centro de Geociencias 2006

Artículos Científicos Internacionales

1. Adams, A.J., Christianse, E.H., Kowallis, B.J., Carranza-Castañeda, O., Miller, W.E. **2006** Contrasting silicic magma series in Miocene-Pliocene Ash deposits in the San Miguel de Allende Graben, Guanajuato, Mexico: *Journal of Geology*, 114(2), 247-266
2. Aguilar-Pérez, L. Antonio, Ortega-Guerrero M. Adrián, Lugo-Hubp, José y Ortiz- Zamora Dalia del C., 2006. Análisis numérico acoplado de los desplazamientos verticales y generación de fracturas por extracción de agua subterránea, en las proximidades de la Ciudad de México. *Revista Mexicana de Ciencias Geológicas*. V 23, núm. 3, p. 247-261.
3. Aguirre-Díaz, G. J., Jaimes-Viera, M. C., and Nieto-Obregón, J., 2006, The Valle de Bravo Volcanic Field. Geology and geomorphometric parameters of a Quaternary monogenetic field at the front of the Mexican Volcanic Belt, in *Neogene-Quaternary continental margin volcanism: A perspective from Mexico*, Siebe, C., Macías, J.L., Aguirre-Díaz, G.J., eds., Geological Society of America Special Paper No. 402, p. 125-140.
4. Arizabalo, R., Oleschko, K., Korvin, G., Lozada, M., Castrejón, R. and Ronquillo, G., 2006. Lacunarity of Geophysical Well Logs from the Cantarell Reservoir in the Gulf of Mexico. *Geofísica Internacional*, v.45, Num. 2:99-113.
5. Arzate J.A., Alvarez R., Yutsis V., Pacheco J. y López-Loera H., 2006. Geophysical modeling of valle de Banderas graben and its structural relation to Bahía de Banderas, Mexico. *Revista Mexicana de Ciencias Geológicas*, v.23, no.2, pp.184-198 22)
6. Bellotti, N., Capra, L., Groppelli, G., Norini, G., 2006, Tectonic evolution of the Toluca Basin and its influence on the eruptive history of the Nevado de Toluca Volcano. *Journal of Volcanology and Geothermal Research*, 158: 21- 36.
7. Camprubí, A., Albinson, T., 2006. Depósitos epitermales en México: actualización de su conocimiento y reclasificación empírica. *Boletín de la Sociedad Geológica Mexicana*, v. 58 (1), p. 27-81.
8. Camprubí, A., Chomiak, B.A., Villanueva-Estrada, R.E., Canals, À., Norman, D.I., Stute, M., Cardellach, E., 2006. Fluid sources for the La Guitarra epithermal deposit (Temascaltepec district, Mexico): volatile and helium isotope analyses in fluid inclusions. *Chemical Geology*, v. 231 (3), p. 252-284.

9. Camprubí, A., González-Partida, E., Iriondo, A., 2006. Mineralizing fluids of the shallow epithermal Au-Ag deposits of the El Barqueño district, Jalisco, Mexico. *Journal of Geochemical Exploration*, v. 89 (1-3), p. 39-44.
10. Camprubí, A., González-Partida, E., Iriondo, A., Levresse, G., 2006. Mineralogy, fluid characteristics and depositional environment of the Paleocene low-sulfidation epithermal Au-Ag deposits of the El Barqueño district, Jalisco, Mexico. *Economic Geology*, v. 101 (1), 235-247.
11. Camprubí, A., González-Partida, E., Torres-Tafolla, E., 2006. Fluid inclusion and stable isotope study of the Cobre – Babilonia polymetallic epithermal vein system, Taxco district, Guerrero, Mexico. *Journal of Geochemical Exploration*, v. 89 (1-3), p. 33-38.
12. Capra, L., 2006. Abrupt climatic changes as triggering mechanisms of massive volcanic collapses. *Journal of Volcanology and Geothermal Research*, 155: 329-333.
13. Capra, L., Carreras, L., Arce, J.L., Macías, J.L., 2006, The lower Toluca pumice: a 21,700 yr B.P. plinian eruption of the Nevado de Toluca volcano, Mexico. *Geological Society of America Special Volume "Neogene-Quaternary continental margin volcanism: A perspective from Mexico"*.N. 42: 155- 174.
14. Carrasco-Núñez, G., Díaz-Castellón, R., Siebert, L., Hubbard, B., Sheridan, M. F., Rodríguez, S. R., 2006. Multiple edifice-collapse events in the Eastern Mexican Volcanic Belt: the role of sloping substrate and implications for hazard assessment. Eds. Tibaldi, A. and Lagmay, A., "The effects of basement structural and stratigraphic heritages on volcano behaviour". *Journal of Volcanology and Geothermal Research*, 158, p. 151-176.
15. Carrasco-Núñez, G., Ort, M., Romero, C., 2006. Evolution and hydrological conditions of a maar volcano (Atexcac crater, Eastern Mexico). *Journal of Volcanology and Geothermal Research*, <http://dx.doi.org/10.1016/j.jvolgeores.2006.07.001>
16. Carreón-Freyre, D., Cerca, M. 2006. Delineating the near-surface geometry of the fracture system affecting the valley of Queretaro, Mexico: Correlation of GPR signatures and physical properties of sediments. *Near Surface Geophysics*, EAGE (European Assoc. of Geoscientists and Engineers). 4(1): 49-55.
17. Carrillo-Chavez, A., Gonzalez-Partida, E., Morton-Bermea, O., Hernandez, E., Levresse, G., Soto, P., Tritlla, J. and Camprubi, A. 2006 Heavy Metals in rocks, sediments, mine tailings, leaching experiments and groundwater from the Mineral de Pozos historical mining site, north central Mexico. *Internacional Geology review*, vol. 48, p. 466-478
18. Chávez Cabello, G., Molina Garza, R., Delgado-Argote, L., Contreras-Flores, R., Ramírez, E., Ortega-Rivera, A., Böhnel, H., Lee, J., 2006, Geology and paleomagnetism of El Potrero pluton, Baja California: Understanding criteria for timing of deformation and evidence of pluton tilt during batholith growth: *Tectonophysics* 424, p. 1-17.

19. Dekkers, M. J., Böhnel, H. N., 2006, Reliable absolute palaeointensities independent of magnetic domain state: *Earth and Planetary Science Letters* 248, 507-516.
20. Echavarría, L., Nelson, E., Humphrey, J., Chavez, J., Escobedo, L., and Iriondo, A., 2006, Geological Evolution of the Caylloma Epithermal Vein District, Southern Perú: *Economic Geology*, v. 101, no. 4, p. 843–863.
21. García-Meza, J.V., Carrillo-Chavez, A. and Morton-Bermea, O. 2006 Sequential extractions on mine tailings samples after and before bioassays: implications on the speciation of metals during microbial re-colonization. *Environmental Geology*, vol. 49, p. 437-448.
22. Garza-González, C., Camprubí, A., González-Partida, E., Arriaga-García, G., Rosique-Naranjo, F., 2006. Hydrothermal alteration and fluid inclusion study of the Lower Cretaceous porphyry Cu-Au deposit of Tiámaro, Michoacán, Mexico. *Journal of Geochemical Exploration*, v. 89 (1-3), p. 124-128.
23. González-Esparza, J. A., Carrillo, E. Andrade, P. Sierra, S. Vazquez, C. Rodríguez, R. Pérez-Enríquez, S. Kurtz, X. Blanco- Cano, (2006), Calibration and testing of the MEXART antenna using solar transits, *JASR*, 38, 8, 1824-1827, doi:10.1016/j.asr.2005.09.032.
24. González-Partida, E., Camprubí, A., 2006. Evolution of mineralizing fluids in the Zn-Pb- Cu(-Ag±Au) skarn and epithermal deposits of the world-class San Martín district, Zacatecas, Mexico. *Journal of Geochemical Exploration*, v. 89 (1-3), p. 138-142.
25. González-Partida, E., Camprubí, A., González-Sánchez, F., 2006, Fluid inclusion study of the Plomositas – Los Arcos epithermal vein tract, Plomositas district, Sinaloa, Mexico. *Journal of Geochemical Exploration*, v. 89 (1-3), p. 143-148.
26. Grimalsky, V., S. Koshevaya, R. Pérez Enríquez, and A. Kotsarenko (2006), Interaction of Linear and Nonlinear Ion-Sound Waves with Inclusions of Dusty Plasma, *Physica Scripta*, 74, 317- 321, doi:10.1088/0031-8949/74/3/004.
27. Guzmán-Speziale, M., Gómez, J.M. (2006), Seismic strain-rate along the Middle America Trench reveals significant differences between Cocos-North America and Cocos-Caribbean convergence, *Geophysical Journal International*, 166, 179-185.
28. Hubbard, B., Sheridan, M.F., Carrasco-Núñez, G., Díaz, R., Rodríguez, S., 2006. Comparative lahar mapping at volcán Citlaltépetl, Mexico using SRTM, ASTER, and DTED-1 Digital topographic data. *Journal of Volcanology and Geothermal Research*.
<http://dx.doi.org/10.1016/j.jvolgeores.2006.09.005>.
29. Jödicke H., Jording A., Ferrari L., Arzate J., Mezger K., Rüpke L., 2006. Fluids release from the subducted Cocos plate and partial melting of the crust deduced from magnetotelluric studies in Southern Mexico: Implications for the generation of volcanism and subduction dynamics. *Journal of Geophysical Research*, v. 111, B08102, doi:10.1029/2005JB003739.

30. Lara, A., N. Gopalswamy, H. Xie, E. Mendoza-Torres, R. Pérez- Enríquez, and G. Michalek, 2006, Are halo coronal mass ejections special events?, *J. Geophys. Res.*, 111, A06107, doi:10.1029/2005JA011431.
31. Levresse, G., J. Tritlla, J. Villareal and E. González-Partida, 2006 The El Pilote fluorite skarn: A crustal deposit in the understanding and interpretation of the origin and mobilization of F from norther Mexico deposits. *Journal of Geochemical Exploration*, Vol. 89, N° 1-3, pp *Journal of Geochemical Exploration*, Vol. 89, N° 1-3, pp 205-210.
32. Loáiciga H.A., W.W. Yeh and A. Ortega-Guerrero, 2006. Probability density functions in the analysis of hydraulic conductivity data. *Journal of Hydrologic Engineering*, vol. 11, issue 5, pp. 442-450.
33. Luhr, J.F., Kimberly, P., Siebert, L, Aranda-Gómez, J.J., Housh, T.B., and Kysar Mattiotti, G., 2006, México's Quaternary volcanic rocks: Insights from the MEXPET petrological and geochemical database, in Siebe, C., Macías, J.L., and Aguirre-Díaz, G.J., eds., *Neogene-Quaternary continental margin volcanism: A perspective from Mexico: Geological Society of America Special Paper 402*, p. 1–44. (Publicado)
34. Méndez-Ortiz, B., A, Carrillo-Chávez, A., González-Partida, E., Tritlla, J., Levresse, G., González-Posadas, F., Martínez- Kemp, H., 2006. Chemistry of petroleum brines from oilproducing wells in Cretaceous rocks from Southeast Mexico. *Journal of Chemical Exploration* vol.89, p. 276-279.
35. Miranda-Martínez, M.E., Oleschko, K., Parrot, J.-F., Castrejón, F. Y Brambila, F., 2006. Porosidad de los Yacimientos Naturalmente Fracturados: Una Clasificación Fractal. *Revista Mexicana de Ciencias Geológicas*, v.23, núm.2:199-214.
36. Miretzky, P., Munoz, C. and Carrillo-Chavez, A. 2006. Experimental Zn(II) retention in a sandy loam soil by very small columns. *Chemosphere*, vol 65, p. 2082-2089.
37. Molina-Garza, R.S. y Alba-Valdivia, L., 2006, Paleomagnetism of the latest Cretaceous - Paleocene intrusive suite of the Mezcala district, southern Mexico, *Earth Planets and Space*, Vol. 58 (No. 10), pp. 1315-1322,..
38. Molina-Garza, R.S. y Ortega-Rivera, A., 2006 , Lithostratigraphy, paleomagnetism, and magnetostratigraphy of the Balsas Formation, northern Guerrero state, Mexico. *Revista Mexicana de Ciencias Geológicas*, 23, 215-232,
39. Nieto-Samaniego, S. A. Alaniz-Alvarez, G. Silva-Romo, M.H. Eguiza-Castro, C. C. Mendoza-Rosales, 2006, Maastrichtian to Miocene main deformation events in eastern Sierra Madre del Sur, Mexico, inferred from the geometry and age of major structures, *Geological Society of America Bulletin*, v. 118; no. 1/2; p. 1868–1882; doi: 10.1130/B25734.1

40. Norini, G., Groppelli, G., Lagmay, M., Capra, L., 2006, Recent lefto-blique slip faulting in the eastern-central Trans- Mexican Volcanic Belt. Seismic hazard and geodynamic implications. *Tectonics*; 25 (4): TC4012
41. Orozco-Esquivel M.T., Petrone C.M., Ferrari L., Tagami T., Manetti P., 2007. Geochemical and isotopic variability controlled by slab detachment in a subduction zone with varying dip: The eastern Trans-Mexican Volcanic Belt. *Lithos*, v. 93, p. 149-174.
42. Pacheco M., J., Arzate, J.A., Rojas E., Yutsis V., Arroyo M. y Ochoa G., 2006; Delimitation of soil fissure zones due to ground subsidence using gravity data and finite elements modeling in the Valley of Queretaro, Mexico. *Engineering Geology*, v.84, pp.143-160
43. Pérez Enríquez, R., A. Carrillo, A. Kotsarenko, J. López Cruz Abeyro, 2006, The G index of Interplanetary Scintillation Data and its Relation to Forbush Decreases During 1991-1994, *Solar Physics*, 236, 389-397, doi:10.1007/s11207-006-0074-9.
44. Pérez-Enríquez, R., A. Carrillo, and C. Rodríguez, 2006, Fractal Character of G Index of IPS Data for the Period 1991- 1994, Obtained From Multiscale Wavelet Análisis, *JASR*, 38, 8, 1819-1823, doi:10.1016/j.asr.2006.05.005.
45. Petrone C.M., Francalanci L., Ferrari L., Schaaf P., and Conticelli S., 2006. The San Pedro-Cerro Grande Volcanic Complex (Nayarit, Mexico): inferences on volcanology and magmatological evolution. *GSA Special Paper 402*, p. 65-98.
46. Proenza, J.A., Díaz-Martínez, R., Iriondo, A., Marchesi, C., Melgarejo, J.C., Gervilla, F., Garrido, C.J., Rodríguez-Vega, A., Lozano-Santacruz, R., and Blanco-Moreno, J.A., 2006, Primitive Cretaceous island-arc volcanic rocks in eastern Cuba: The Téneme Formation: *Geologica Acta*, v. 4, no. 1-2, p. 103–121.
47. Pulinet, S.A., D.Ouzounov, L. Ciruolo, R. Singh, G. Cervone, A. Leyva, M. Dunajacka, A. V. Karelin, K. A. Boyarchuk, and A.Kotsarenko. 2006, Thermal, atmospheric and ionospheric anomalies around the time of the Colima M7.8 earthquake of 21 January 2003. *Annales Geophysicae*, 24, 3, 835-849,
48. Rossotti, A., Carrasco-Núñez, G., Rosi, M., Di Muro, A., 2006. Eruptive dynamics of the “Citlaltépetl Pumice” at Citlaltépetl volcano, Eastern Mexico. *Journal of Volcanology and Geothermal Research*, 158, p. 401-429.
49. Tornos, F., Galindo, C., Casquet, C., Rodríguez-Pevida, L., Martínez, E., Martínez, C., Velasco, F., and Iriondo, A., 2006, Geochemistry and evolution of the Aguablanca (SW Spain) allochthonous gabbro-hosted Ni-(Cu) magmatic deposit: *Mineralium Deposita*, v. 41, p. 737-769.
50. Tritlla J., Levresse G., 2006, Comments to "(U/Th)/He dating of fluorite: application to the La Azul fluospar deposit in the Taxco mining district, Mexico" (Min. Dep., 39, 976-982) by Pi et al. *Mineralium Deposita*, 41, 3, 296-299. ISSN : 0026-4598

51. Valencia-Moreno, M., Iriondo, A., and González-León, C., 2006, New temporal constraints on the eastward migration of the Late Cretaceous-early Tertiary magmatic arc of NW Mexico based on $^{40}\text{Ar}/^{39}\text{Ar}$ hornblende geochronology of granitic rocks: *Journal of South American Earth Sciences*, v. 22, p. 22-38.
52. Weber, B., Iriondo, A., Premo, W., Hecht, L., and Schaaf, P., 2006, New insights into the history and origin of the southern Maya Block, SE Mexico: U-Pb-SHRIMP zircon geochronology from metamorphic rocks of the Chiapas Massif: *International Journal of Earth Sciences* (online, DOI: 10.1007/s00531-006-0093-7).
53. Weber, B., Schaaf, P., Valencia, V.A., Iriondo, A., and Ortega-Gutiérrez, F., 2006, Provenance ages of Late Paleozoic sandstones (Santa Rosa Formation) from the Maya block, SE México—implications on the tectonic evolution of western Pangea: *Revista Mexicana de Ciencias Geológicas*, v. 23, n. 2, p. 262-276.
54. Xu, S. S., Nieto-Samaniego, Alaniz-Alvarez, S. A., 2006, The deviations of fault length due to sampling and linkage and their influence on the D-L relationship, *International Journal of Earth Science*, v. 85, p. 841-853 DOI: 10.1007/s00531-005-0065-3.

Publicaciones nacionales arbitradas

1. Carranza-Castañeda, O., 2006, Paleomaztozoología de la Cuenca de San Miguel de Allende, Estado de Guanajuato, sus Contribuciones: El Intercambio Biotico entre las Américas. Capítulo en libro, CONACULTA-INAH.
2. Carranza-Castañeda, Óscar, 2006, Late Tertiary fósil localities in central México between 19°–23°N, in Carranza-Castañeda, Óscar, and Lindsay, E.H., eds., *Advances in late Tertiary vertebrate paleontology in Mexico and the Great American Biotic Interchange*: Universidad Nacional Autónoma de México, Instituto de Geología and Centro de Geociencias, *Publicación Especial 4*, p. 45–60.
3. Osuna E., Figueroa-Sandoval, B., Oleschko, K., Flores-Delgadillo, L., Martínez- Menes, M., González-Cossio, F., 2006. Efecto de la estructura del suelo sobre el desarrollo radical del maíz con dos sistemas de labranza. *Agrociencia*, 40: 27-38. ISI.
4. Steadman, D.W., and Carranza-Castañeda, Óscar, 2006, Early Pliocene to Early Pleistocene birds from central Mexico, in Carranza-Castañeda, Óscar, and Lindsay, E.H., eds., *Advances in late Tertiary vertebrate paleontology in Mexico and the Great American Biotic nterchange*: Universidad Nacional Autónoma de México, Instituto de Geología and Centro de Geociencias, *Publicación Especial 4*, p. 61–71.