



## Artículos Arbitrados Publicados

### ASTROFÍSICA

1. **Aretxaga, I., Hughes, D.H.**, Dunlop, J.S., "Confirmation of the effectiveness of submm source redshift estimation based on rest-frame radio-FIR photometry", MNRAS 358, 1240-1246, 2005.
2. Mortier, A.M.J., Serjeant, S., Dunlop, J.S., Scott,S.E., Ade, P., Alexander,D.; Almaini, O.; **Aretxaga, I.; Baugh, C.; Benson, A.J.; Gaztañaga, E., Hughes, D.**, and 68 coauthors,"The SCUBA Half-Degree Extragalactic Survey - I. Survey motivation, design and data processing", MNRAS 363, 563 - 580, 2005.
3. **Cardona, O.**, Simonneau, E., Crivellari, L., "Analytic partition function for plasmas", RMF 51, 476-481, 2005.
4. **Carrasco, E.**, Avila, R., **Carramiñana, A.**, "High altitude wind velocity at Sierra Negra and San Pedro Martir", PASP 117, 104-110, 2005.
5. **Mercado, A., Carrasco, L.**, "Application of Non-Linear Analysis to Variability of 3C390.3", RMAA, 41, 477-482, 2005.
6. Rodriguez-Merino, L. H., **Chávez , M., Bertone, E.**, Buzzoni, A., "UVBLUE: A New High-Resolution Theoretical Library of Ultraviolet Stellar Spectra", ApJ 626, 411-424, 2005.
7. Franchini, M., Morossi, C. P., Di Marcantonio, P., Castelli, F, Malagnini, M.L., **Chávez, M.**, "Synthetic Lick Indices and Detection of Alpha Enhanced Stars. III. F-G-K Stars with  $[Fe/H]>+0.0$ ", ApJ 634, 1319-1335, 2005.
8. **Vega, O.**, Silva, L., Panuzzo P., Bressan A., Granato, G.L., **Chávez., M**, "The Evolution of Actively Star Forming Galaxies in the mid infrared", MNRAS 364, 1286-1298, 2005.
9. **Chavushyan, V. H.**, Verkhodanov, O.V., **Valdés, J. R., Mujica, R.**, Trushkin, S.A., "IRAS F02044+0957: an interacting system", Ap 48, 89-98, 2005.
10. **Gaztañaga, E.**, Norberg, P., Baugh, C.M., Croton, D.J., "Statistical analysis of galaxy surveys - II. The three-point galaxy correlation function measured from the 2dFGRS", MNRAS 364, 620 - 634, 2005.
11. **Gaztañaga, E.**, Scoccimarro, R., "The three-point function in large-scale structure: redshift distortions and galaxy bias", MNRAS, 361, 824 - 836, 2005.
12. Van Kampen, E., Percival, W.J., Crawford, M., Dunlop, J.S., Scott, S.E., Bevis, N., Oliver, S., Pearce, F., Kay, S., **Gaztañaga, E., Hughes, D., Aretxaga, I.**, "The extragalactic submillimetre population: predictions for the SCUBA Half-Degree Extragalactic Survey (SHADES)", MNRAS 359, 469-480, 2005.



## Artículos Arbitrados Publicados

13. **Lekht, E. E.**, Munitsyn, V. A., Tolmachev, A. M., "Monitoring of the H<sub>2</sub>O maser in W31(2) during 1981-2003", AR 49, 44-56, 2005.
14. **Lekht, E. E., Mendoza-Torres, J. E.**, Rudnitskij, G. M., Tolmachev, A. M., "Variability of the H<sub>2</sub>O maser associated with the M-supergiant S Persei", A&A 437, 127-133, 2005.
15. **Lekht, E.E.**, Munitsyn, V.A., Tolmachev, A.M., "Flares of the H<sub>2</sub>O maser in W31(2)", AstL 31, 315-326, 2005.
16. Pashchenko, M.I., **Lekht, E.E.**, "Masers in the cool molecular cloud L379", AstR. 49, 624-633, 2005.
17. Ramírez, O., **Lekht, E.**, Tolmachev, A.M., "A Strong flare of the H<sub>2</sub>O maser in Sagittarius B2 (M)", AstR. 49, 777-782, 2005.
18. Richards A.M.S., Cohen R.J., Crocker M., **Lekht E.E., Mendoza E.**, Samodurov V.A., "MERLIN and Pushchino observations of H<sub>2</sub>O masers in outer Galactic SFR S128N", Ap & SS 295, 19-25, 2005.
19. **Mayya, D., Carrasco, L., Luna, A.**, "The discovery of spiral arms i the starburst galaxy M82", ApJ 628, L33-L36, 2005.
20. Kamath, U.S., Anupama, G.C., Ashok, N.M., **Mayya, Y.D.**, Sahu, D.K., "Optical and near-infrared spectroscopy of nova V1494 Aquilae 1999 no. 2", MNRAS 361, 1165-1172, 2005.
21. Barway, S., **Mayya, Y.D.**, Kembhavi, A.K and Pandey, S.K., "Multicolor Surface Photometry of Lenticulars I. The Data", AJ 129, 630-646, 2005.
22. **Mayya, Y. D., Bizyaev, D., Romano, R.**, García-Barreto, J. A., Vorobyov, E. I., "The detection of nonthermal radio continuum spokes and study of star formation in the Cartwheel", ApJ 620, 35-38, 2005.
23. **Mendoza-Torres, J. E., Torres-Papaqui, J. P.,** Wilhelm, K., "Explosive events in the solar atmosphere seen in extreme-ultraviolet emission lines", A&A 431, 339-344, 2005.
24. Zickgraf, F.-J., Krautter, J., Reffert, S., Alcalá, J.M., **Mújica, R.**, Covino, E., Sterzik, M.F., "Identification of a complete sample of northern ROSAT All-Sky Survey X-ray sources VIII. The late-type stellar component", A&A 433, 151-171, 2005.
25. K-i.Churyumov, I.V. Lukyanyk, L. S. Chubko, V. V. Kleshcho, A. A. Berezhnoy, **V. H. Chavushyan**, L. Sandoval, Palma, A., "Exploration of Spectra of Periodic Comet 153P/IKEYA-ZHANG", Suppl. Ser. 5, 472-476, 2005.



## Artículos Arbitrados Publicados

26. **Plionis, M.**, Basilakos, S., Georgantopoulos, I., Georgakakis, "XMM-Newton Observations of Optically Selected Sloan Digital Sky Survey Clusters", ApJ 622, 17-20, 2005.
27. Basilakos, S., **Plionis, M.**, Georgakakis, A., Georgantopoulos, I., "The XMM-Newton/2dF Survey - VI. Clustering and bias of the soft X-ray point sources", MNRAS 356, 183-191, 2005.
28. Basilakos, S., **Plionis, M.**, "Cosmological constraints from X-ray AGN clustering and Type Ia supernova data", MNRAS 360, 35-35, 2005.
29. Gaga, T., **Plionis, M.**, Basilakos, S., Georgantopoulos, Geogakakis, "The XMM-Newton/2dF survey-VIII. The extended X-ray sources", MNRAS 363, 811-817, 2005.
30. Bournaud, F., Combes, F., Jog, C.J., **Puerari, I.**, "Lopsided spiral galaxies: evidence from gas accretion", A&A 438, 507-520, 2005.
31. **Puerari, I.**, Valdez-Gutiérrez, M., **Hernández-López, I.**, "The Interacting Galaxy Pair NGC 5394/95: Near-Infrared Photometry, Structure, and Morphology.", ApJ 130, 1524-1534, 2005.
32. Seigar,M.S., Block,D.L., **Puerari,I.**, Chorney,N.E., James, P.A., "Dust-penetrated arm classes: insights from rising and falling rotation curves", MNRAS 359,1065-1076, 2005.
33. Hernández-Toledo, H., Ávila-Reese, V., Conselice, C.J., **Puerari, I.**, "The Structural Properties of Isolated Galaxies, Spiral-Spiral Pairs, and Mergers: The Robustness of Galaxy Morphology During Secular Evolution", AJ 129, 682-697, 2005.
34. **Rodríguez, M.**, Rubin, R. H., "The [Fe IV] Discrepancy: Constraining the Iron Abundances in Nebulae", ApJ 626, 900-908, 2005.
35. Esteban, C., García-Rojas, J., Peimbert, M., Peimbert, A., Ruiz, M.-T., **Rodríguez, M.**, Carigi, L., "Carbon and Oxygen Galactic Gradients: Observational Values from H II Region Recombination Lines", ApJ 618, 95-98, 2005.
36. Garcia-Rojas, J.E., Peimbert, C., Peimbert, A., **Rodríguez, M.**, Ruiz, M.T., "Deep echelle spectrophotometry of S 311, a Galactic H II region located outside the solar circle", MNRAS 362, 301-312, 2005.
37. **Rosa-González,D.**, "Subarcsecond radio observations of the dwarf starburst galaxy NGC 3077", MNRAS 364, 1304-1308, 2005.
38. **Silantyev, N. A.**, "Radiative transfer and Faraday effect in turbulent atmospheres", A&A 433, 1117-1125, 2005.



## Artículos Arbitrados Publicados

39. Gnedin, Yu. N., **Silantyev, N. A.**, Piotrovich, M.Yu, Pogodin, M. A., "Polarization effects of radiation from magnetized envelopes and extended accretion structures", *AstR* 49, 179-189, 2005.
40. **Silich, S., Tenorio-Tagle G., Añorve Zeferino, G. A.**, "On the X-ray Emission from Massive Star Clusters and their Evolving Superbubbles", *ApJ* 635, 1116-1125, 2005.
41. Melo, V., Muñoz-Tuñón, C., Maíz Apellániz, J, **Tenorio-Tagle, G.**, "Young superstar clusters in the starburst of M82: The catalog", *ApJ* 619, 270-290, 2005.
42. **Tenorio-Tagle, G., Silich, S., Rodríguez-González, A.**, Muñoz-Tuñón, C., "On the extreme stationary outflows from super-star clusters: from superwinds to supernebulae and further massive star formation", *ApJ* 620, 217-222, 2005.
43. **Tenorio-Tagle, G., Silich, S., Rodríguez, A.**, Muñoz-Tuñón, C., "On the Extreme Positive Feedback Star-Forming Mode from Massive and Compact Super star Clusters", *ApJ L* 628, L13-L16, 2005.
44. Melo, V.P., Muñoz-Tuñón, C., Maíz-Apellániz, J., **Tenorio-Tagle,G.**, "Erratum: Young Super Star Clusters in the Starburst of M82: The Catalogue", *ApJ* 632, 684-688, 2005.
45. Solorio, T.; **Fuentes, O; Terlevich, R.; Terlevich, E.**, "An active instance-based machine learning method for stellar population studies", *MRAS* 363, 543-554, 2005.
46. Lipari, S., **Terlevich, R.**, Zheng, W., Garcia-Lorenzo, B., Sánchez, S. F., Bergmann, M., "Infrared mergers and infrared quasi-stellar objects with galactic winds -III. Mrk 231: an exploding young quasi-stellar object with compositeoutflow/broad absorption lines (and multiple expanding superbubbles)", *MNRAS* 360, 416-446, 2005.
47. Denicolo, G., **Terlevich, R., Terlevich, E.**, Forbes, D., Terlevich, A., **Carrasco, L.**, "Group, field and isolated early type galaxies-I. Observations and nuclear data", *MNRAS* 356, 1440-1465, 2005.
48. Denicolo, G., **Terlevich, R., Terlevich, E.**, Forbes, D., Terlevich, A., "Group, field and isolated early-type galaxies II. Global trends from nuclear data", *MNRAS* 356, 1440-1465, 2005.
49. **Tovmassian, H. M., Tiersh, H., Tovmassian, G. H., Chavushyan, V. H., Navarro, S. G., Neizvestny, S., Torres-Papaqui, J. P.**, " Photometric and spectroscopic study of the Shakhbazian compact galaxy groups SHCG 74, SHCG 188, SHCG 251, SHCG 348", *RMAA* 41, 3-16, 2005.



## Artículos Arbitrados Publicados

50. **Tovmassian, H. M.**, Tiersch, H., Tovmassian, G. H., Neizvestny, S., **Torres-Papaqui, J. P.**, "Spectroscopy and Photometry of ShCG 191-Abell 1097", *AstN* 326, 362-369, 2005.
51. **Tovmassian, H.M.**, Tiersch, H., **Chavushyan, V.H.**, Tovmassian, G.H. Navarro S.G., Neizvestny S., **Torres-Papaqui, J.P.**, "Shakhbazian compact galaxy groups. IV. Photometric and spectroscopic study of ShCG 8, ShCG 14, ShCG 19, and ShCG 22", *A&A* 439, 973-979, 2005.
52. **Valdés, J. R.**, Berta, S, Bressan, A., Franceschini, A., Rigopoulou, D., Rodrígiero, G., "NIR Spectroscopy of Luminous Infrared Galaxies and the Hydrogen Recombination Photon Deficit", *A&A* 434, 149-161, 2005.

## OPTICA

53. M. Cywiak, **J. F. Aguilar-Valdez**, B. Barrientos. "Low-numerical-aperture Gaussian beam confocal for profiling optical smooth surfaces". *Opt. Eng.*, **44**, 1, (2005), 13604-1-13604-7.
54. **V. Arrizón-Peña**, L. A. González-López, R. Ponce, A. Serrano-Heredia. "Computer-generated holograms with optimum bandwidths obtained with twisted-nematic liquid-crystal displays". *Appl. Opt.* **44**, (2005), 1625-1634.
55. **V. Arrizón-Peña**, G. Méndez-Vázquez, D. Sánchez-de-la-Llave. "Accurate encoding of arbitrary complex fields with amplitude-only liquid cristal spatial light modulators". *Optics Express*, **13**, 20, (2005), 7913-7927.
56. C. López-Mariscal, M. A. Bandres, J. C. Gutiérrez-Vega, **S. Chávez-Cerda**. "Observation of parabolic nondiffracting optical fields". *Opt. Express*, **13**, 7, (2005), 2364-2369.
57. R. I. Hernández-Aranda, S. Chávez-Cerda, J. C. Gutiérrez-Vega. "Theory of the unstable Bessel resonator". *J. Opt. Soc. Am. A*, **22**, 9, (2005), 1909-1917.
58. J. Rodríguez-Asomoza, R. Rosas-Romero, S. E. Lobato-Larios, R. Alejos-Palomares, J. A. Navarro-Martínez, **C. Gutiérrez-Martínez**. "Electric signal sensor using an electrooptic coherence modulator". *IEEE Transactions on Instrumentation and Measurement*, **54**, 1, 347- 351.
59. Ricárdez-Vargas, **M. D. Iturbe Castillo**, R. Ramos-García, K. Volke-Sepúlveda, V. Ruíz-Cortés. "Hollow spheres as individual movable micromirrors in Optical tweezers". *Opt. Express*, **13**, 3, (2005), 968-976.



### Artículos Arbitrados Publicados

60. **A. Jaramillo-Núñez**, B. Sánchez-Rinza. "Characterization of a coordinate measuring machine of large dimensions". *JART*, **3**, 3, (2005). 187-196.
61. **N. Korneev-Zabello**, J. Soto. "The nonlinear Faraday rotation-based dynamic holography in rubidium vapor". *Opt. Commun.* **245**, (2005), 437-442.
62. O. Pottiez, **E. A. Kuzin**, B. Ibarra-Escamilla, F. Gutiérrez-Zainos, U. Ruiz-Corona, J. T. Camas-Anzueto. "High-order amplitude regularization of an optical pulse train using a power-symmetric NOLM with adjustable contrast". *IEEE Photon. Technol. Lett.*, **17**, 1, (2005), 154-156.
63. **E. A. Kuzin**, S. Mendoza-Vázquez, J. Gutiérrez-Gutiérrez, B. Ibarra-Escamilla, J. W. Haus, R. Rojas-Laguna. "Intra-pulse Raman frequency shift versus conventional Stokes generation of diode laser pulses in optical fibers". *Optics Express*, **13**, 9, (2005), 3388-3396.
64. C. Trono, **E. A. Kuzin**, B. Ibarra Escamilla, R. A. Vázquez-Sánchez, G. C. Righini. "Fabrication of fiber Bragg gratings for a multipoint laser sensor". *Atti della Fondazione Giorgio Ronchi*, **54**, 3, (2005), 465-474.
65. O. Pottiez, **E. A. Kuzin**, B. Ibarra-Escamilla, F. Méndez-Martínez. "Theoretical investigation of the NOLM with highly twisted fibre and a  $\lambda/4$  birefringence bias". *Opt. Commun.* **254**, (2005), 152-167.
66. B. M. Rodríguez-Lara, **H. M. Moya-Cessa**, A. B. Klimov. "Combining Jaynes-Cummings and anti-Jaynes-Cummings dynamic in a trapped-Ion system driven by a laser". *Phys. Rev. A*, **71**, (2005), 023811-1-023811-6.
67. S. Mancini, D. Vitali, **H. M. Moya-Cessa**. "Quantum dynamics in single-spin measurement". *Phys. Rev. B*, **71**, (2005), 054406-1-054406-6.
68. G. T. Rubín-Linares, **H. M. Moya-Cessa**. "Scheme to measure squeezing and phase properties of a harmonic oscillator". *J. Mod. Opt.*, **52**, 12, (2005), 1751-1756.
69. **A. Olivares-Pérez**, J. C. Ibarra-Torres, M. Ortiz-Gutiérrez, M. Pérez-Cortéz, I. Fuentes-Tapia. "Rosin (Colophony) holograms sensitized with ammonium dichromate®". *Opt. Mat.*, **27**, (2005), 1825-1831.
70. S. Toxqui-López, **A. Olivares-Pérez**, I. Fuentes-Tapia. "Polyvinyl acetate with cellulose dinitrate holograms". *Opt. Mat.* (2005). En Prensa
71. A. T. Tuqan, K. M. Kelly, G. Aguilar, **J. C. Ramírez-San-Juan**, J. S. Nelson. "Evaluation of single versus multiple cryogen spray cooling spurts on in vitro model human skin". *Lasers in Medical Sciences*, **20**, (2005), **80-86**.



### Artículos Arbitrados Publicados

72. K. M. Kelly, B Choi, S. Mc Farlane, A. Motosue, B Jung, M. H. Khan, **J. C. Ramírez-San-Juan**, J. S. Nelson. "Description and analysis of treatments for Port-wine stain birthmarks". *Arch Facial Plast Surg*, **7**, (2005) 287-294.
73. M. Pérez-González, C. Zuñiga-Islas, **F. J. Renero-Carrillo**, A. Torres-Jacome. "Optical properties of amorphous silicon germanium obtained by low-frecuency plasma-enhanced chemical vapor deposition from SiH<sub>4</sub> + GeF<sub>4</sub> and from SiH<sub>4</sub> + GeH<sub>4</sub>". *Opt. Eng.*, **44**, 4, (2005), 043801-043805.
74. A. M. Pérez-González, **F. J. Renero-Carrillo**, C. Zuñiga-Islas, A. Torres-Jacome. "Effects of boron addition on a Si<sub>90</sub>Ge<sub>10</sub>: H films obtained by low frecuency plasma enhanced chemical vapour deposition". *J. Phys.: Condens. Matter*, **17**, (2005), 3975-3983.
75. M. Fernández-Guasti, A. Meléndez-Covarrubias, **F. J. Renero-Carrillo**, A. Cornejo Rodríguez. "LCD Pixel shape and far-field diffraction patterns". *Optik*, **116**, 6, (2005), 265-269.
76. S. Koshevaya, I. Moroz, V. Grimalsky, M. Tecpoyotl-Torres, J. Escobedo-Alatorre, **J. J. Sánchez-Mondragón**. "Comparison of volume and integrated P-I-N modulators in millimeter wave range". *J. Infrared and Millimeter Waves*, **26**, 3, (2005), 387-408.
77. A. Zamudio-Lara, J. Escobedo-Alatorre, **J. Sánchez-Mondragón**, M. Tecpoyotl-Torres. "A comparison between unidimensional circular and spherical photonic crystal stacks". *Elsevier Journal of Optical Materials*, **27**, (2005), 1255-1259.
78. J. Escobedo-Alatorre, **J. Sánchez-Mondragón**, M. Torres-Cisneros, R. Selvas-Aguilar, M. Basurto-Pensado. "A device approach to propagation in nonlinear photonics crystal". *Elsevier Journal of Optical Materials*, **27**, (2005), 1260-1265.
79. **A. Shcherbakov**, E. Tepichín-Rodríguez, M. Sánchez-Sánchez. "Scattering light by short acoustic pulses in a crystalline collinear cell and coherent processing of ultra-high frequency radio-wave electronic pulses". *Optik*, **116**, (2005), 493-499.
80. J. C. Solorio-Leyva, J. G. Suárez-Romero, J. B. Hurtado-Ramos, J. G. Cortés-Reynoso, **E. Tepichín-Rodríguez**. "Corrections of size-of-source effec and distance effect in radiometric measurements of radiance". *Appl. Opt.*, **44**, 13, (2005), 2511-2518.
81. E. Custodio-García, P. J. Sebastián, J. Campos-Alvarez, **C. G. Treviño-Palacios**, E. Andrés-Zarate, Q. A. Córdova A, H. de la O-León. "Solar conduction heat transfer in fired clay bricks". *Solar Energy Materials and Solar Cells*, **88**, 2, (2005), 169-178.



### Artículos Arbitrados Publicados

82. E. Andrés-Zarate, E. Custodio G, P. J. Sebastián, **C. G. Treviño-Palacios**, R. Rodríguez-Vera, H. J. Puga-Soberanes. "Defect detection in metals using electronic speckle pattern interferometry". *Solar Energy Materials and Solar Cells*, **88**, 2, (2005), 217-225.
83. **G. Urcid-Serrano**, A. Padilla-Vivanco. "Far-field diffraction patterns of circular sectors and related apertures". *Appl. Opt.* **44**, 36, (2005), 7677-7696.
84. J. J. Sánchez-Escobar, **S. Vázquez-Montiel**. "Experimental interferogram analysis using an automatic polynomial fitting method based on evolutionary computation". *Optical Engineering*, **44**, 4, (2005), 1-7.
85. F. Cruz-Meneses, G. Rodriguez-Zurita, **V. Arrizón-Peña**. "Interferometric sinograms of transparent objects with stepping wise shifted Ronchi ruling for optical tomography". *Rev. Mex. Fís.*, **51**, 6, (2005), 591-595.
86. F. Gracia-Témich, **A. Cornejo-Rodríguez**, F. Granados-Agustín, H. John Caulfield. "Apodization of the flat mirror support of a newton telescope". *Rev. Mex. Fís.*, **51**, 1, (2005), 104-109.
87. F. Gutiérrez-Zainos, **B. Ibarra-Escamilla**, E. A. Kuzin, U. Ruiz-Corona, O. Pottiez. "Investigación experimental del espejo de lazo óptico no lineal con un acoplador simétrico y una placa retardadora de un cuarto de onda en el lazo". *Rev. Mex. Fís.*, **51**, 6, (2005), 574-579.
88. V. I. Moreno-Oliva, C. I. Robledo-Sánchez, A. Cordero-Dávila, P. Nanco Hernández, **A. Jaramillo-Núñez**. "Reconstrucción 3D de la sagita de una superficie en rotación". *Rev. Mex. Fís.*, **51**, 6, (2005), 636-640.
89. O. Flores-Ramírez, **N. Korneev-Zabello**. "Efecto de los defectos de películas delgadas del polímero electro-óptico en la conductividad". *Superficies y Vacío*, **18**, 1, (2005), 26-30.

### ELECTRÓNICA

90. Dainet Berman-Mendoza, **Mariano Aceves-Mijares**, Luis Raúl Berriel-Valdos, Jazmín Carranza, Jorge Pedraza, Carlos Domínguez-Horna, And Ciro Falcony. "Silicon-rich silicon oxide films boost UV sensitivity" *Laser Focus World*, pp 103-105 September (2005).
91. A. Luna-Lopez, **M. Aceves-Mijares**, O. Malik, and R. Glaenzer, "Low- and high-resistivity silicon substrate characterization using the Al/silicon-rich oxide/Si structure with comparison to the metal oxide semiconductor technique", *Journal of Vacuum Science & Technology*, A: Vacuum, Surfaces and Films, May 2005, Volume 23, Issue 3, pp. 534-538. LA PARTICIPACIÓN DE LOS ESTUDIANTES: A. Luna-Lopez- estudiante Doctoral



### Artículos Arbitrados Publicados

92. A. G. Rojas H., **F. Renero C.**, **W. Calleja**, R. Pérez, "Diseño de sistemas ópticos Afocales con microlentes de silicio", Rev. Mex. De Fís., 51(5) Pags. 530-534, 2005
93. A. Jiménez-P, **F.J. De la Hidalga-W**, and M.J. Deen, "Modelling of the Dynamic Threshold MOSFET", IEE Proceedings on Circuits, Devices and Systems, Vol. 152, No. 5 , p. 502-508, October 2005.
94. J Gracios Marin, C.A., Vargas Emilio, **Díaz Sánchez Alejandro**, "Describing an IMS using FNRTPN: AVHDL approach", Robotics and Computer Integrated Manufacturing, Elsevier, U.K. Vol. 21 Issue 3 junio 2005, pp.241-247.
95. C. Muñiz Montero and **A. Díaz Sánchez**, "Offset Compensation in Current Mode Delay Lines," Cientitech Magazine, año 10, No. 24, Marzo del 2005, pp. 23-27, ISSN 1405-2601.
96. Martínez-Castillo, J; Díaz-Sánchez, A; Torres-Jácome, "Amplificador Transimpedancia BiCMOS para Sistemas de Comunicaciones en Altas Frecuencias," de Información Tecnológica-Vol. 16 N°6-2005, págs.: 79-86.
97. **V. Grimalsky**, S. Koshevaya, E. Gutierrez- D., and O.V. Kolokoltsev, "Surface ultrasonic envelope solitons and wave collapse in solid film-substrate systems". Journal of Physics: Conference Series, V.23, Pp. 68–77, 2005 (UK, Institute of Physics Publ.)
98. **V. Grimalsky**, S. Koshevaya, A. Kotsarenko, and R. Perez Enriquez,. "Penetration of the electric and magnetic field components of Schumann resonances into the ionosphere", Annales Geophysicae, V.23, Pp. 2559–2564, 2005 (France, European Geosciences Union).
99. S.V.Koshevaya, **V.V.Grimalsky**, R.Perez-Enriquez, and A.N.Kotsarenko,. Physica Scripta, "Increase of the transparency for cosmic radio waves due to the decrease of density of the ionosphere caused by acoustic waves" V.72, Pp. 91–99, 2005 (Sweden, Institute of Physics Publ.)
100. A. D. Boardman, Yu. G.Rapoport, **V.V.Grimalsky**, B.A.Ivanov, S.V.Koshevaya, L.Velasco, and C.E.Zaspel, "Excitation of Vortices Using Linear and Nonlinear Magnetostatic Waves".Physical Review E, V.71, Paper No 026614 (pp. 026614-1-026614-11), 2005 (USA, American Physical Society).
101. A.Kotsarenko, O.Molchanov, M.Hayakawa, S.V.Koshevaya, **V.V.Grimalsky**, R.Perez-Enriquez, and J.A.Lopez-Abeyro, 2000, "Investigation of ULF Magnetic Anomaly During Izu Earthquake Swarm and Mijakejima Volcano Eruption at Summer 2000 Japan". Natural Hazards and Earth System Sciences, V.5, No 1, Pp. 63-69, 2005 (France, European Geosciences Union).



### Artículos Arbitrados Publicados

102. S. Koshevaya, N.Makarets, **V. Grimalsky**, A.Kotsarenko, and R.Perez-Enriquez,, "Spectrum of the Seismic-Electromagnetic and Acoustic Waves Caused by Seismic and Volcano Activity". Natural Hazards and Earth System Sciences, V.5, No 1, Pp. 1-7, 2005 (France, European Geosciences Union).
103. **P. Halevi** and Adan S.Sanchez "Spontaneous emission in a high-contrast one dimensional photonic crystal", Optics Comm. **251**,109-114(2005).
104. Adan S.Sanchez and **P.Halevi**, "Spontaneous emission in one-dimensional photonic crystals" Phys.Rev.E **72**,056609(2005) - 11 pp.
105. J. Manzanares-Martinez, F.Ramos-Mendieta, and **P.Halevi**, "Temperature-tuning of two-dimensional photonic crystals in presence of phonons and plasma of electrons and holes", Phys.Rev.B **72**,035336(2005) - 9 pp.
106. J. Manzanares-Martinez, F.Ramos-Mendieta, and **P.Halevi**, "Tuning of transmission peaks in two-dimensional semiconductor-based photonic crystals with line defects of cylinders", Appl. Phys. Lett.**87**,101110(2005) - 3 pp *and* Virtual J.Nanoscale Sci.Tech. (12 Sep. 2005).
107. **G. Jovanovic Dolecek**, M.M. Alvarez\*, and M. Martinez, "One simple method for design of multiplierless FIR filters", Journal of Applied Research and Technology, vol.3, No.2, August 2005, pp.125-138. (Publicado con estudiante doctoral M.M.Alvarez)
108. J. Díaz Carmona, **G. Jovanovic Dolecek**: "Diseño de filtros FIR de retraso fraccionario mediante optimizacion en frecuencia"Journal Revista Internacional, Información Tecnologica, ISSN 0716-8756, vol.16, No3, 2005, pp.81-88.
109. **G. Jovanovic-Dolecek**, and S.K. Mitra, "A new multistage comb-modified rotated sinc (RS) decimator with sharpened magnitude response", IEICE Transactions Special Issue on Recent Advances in Circuits and Systems, Japan, vol.E88-D, No.7, 2005, pp.1331-1339.
110. **G. Jovanovic-Dolecek**, and S.K. Mitra "A New Two-stage Sharpened Comb Decimator", IEEE Transactions on Circuits and Systems, TCAS I: Regular Papers, vol.52, N07, July 2005, pp.1416-1420.
111. Physica Status Solidi **O. Malik**, V. Grimalsky, A. Torres-J., J. De La Hidalga-W., "Applications of nanocrystalline metal oxide films in monocrystalline silicon light emitting diodes". C, V.2, No 10, No 10, Pp. 3645-3648, 2005 (Germany, Wiley-Interscience Publ.).
112. **E. Tlelo-Cuautle**, D. Torres-Muñoz, L. Torres-Papaqui, "On the computational synthesis of CMOS voltage followers", IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, vol. E88-A, no. 12, ISSN:



### Artículos Arbitrados Publicados

**0916-8508**, December 2005. Indexada: INSTITUTTE FOR SCIENTIFIC INFORMATION, SCIENCE CITACION INDEX.

113. Sánchez-López C., **Tlelo-Cuautle E.**, Díaz-Sánchez A., "Symbolic Noise Analysis For MOST Circuits Using Nullors", International Journal on Computer Research, 12(3), 2005. NOVA PUBLISHERS, USA.
114. **E. Tlelo-Cuautle**, J. Aguilera-Meza, "Enhancing the symbolic analysis of analog circuits", Journal of Applied Research and Technology, vol. 3, no. 2, pp. 150-160, ISSN: 1665-6423, August 2005. INDEXADA EN: LATINDEX, UNAM.
115. J. Plaza-Castillo, **Tlelo-Cuautle E.**, Torres-Jácome A., "Solution of the surface potential versus distance at various bulk potentials for silicon", Modelling, Control and Application. An added volume of DCDIS Journal, Series B: Applications and Algorithms, Watam Press, Waterloo, pp. 333-336, ISSN: **1492-8760**, July 2005. Indexada: INSTITUTTE FOR SCIENTIFIC INFORMATION, SCIENCE CITACION INDEX-
116. **E. Tlelo-Cuautle**, C. Sánchez-López, F. Sandoval-Ibarra, "Computing symbolic expressions in analog circuits using nullors", Revista Iberoamericana de Computación y Sistemas, CIC-IPN, México, ISSN 1405-5546, 2006. Indexada: PADRÓN DEL CONACYT.
117. Torres-Papaqui L., Torres-Muñoz D., **Tlelo-Cuautle E.**, "Synthesis of VFs and CFs by manipulation of generic cells", International Journal of Analog Integrated Circuits and Signal Processing, vol. 46, no. 2, Kluwer Academic Publishers, ISSN: **0925-1030**, February 2006. Indexada: INSTITUTTE FOR SCIENTIFIC INFORMATION, SCIENCE CITACION Leticia Torres-Papaqui se graduó Oct. 2004, Delia Torres-Muñoz: Tesista de Maestría.
118. Arllene-M. Pérez-G, Francisco-J. Renero-C., Carlos Zuñiga-I., **Alfonso Torres-J.**, "Effects of Boron addition on a-Si<sub>90</sub>Ge<sub>10</sub>:H films obtained by low frequency plasma enhanced chemical vapour deposition", Journal of Physics: Condensed Matter, 17, 3975-3983, (2005).
119. Arllene M. Pérez, Carlos Zúñiga, Francisco J. Renero and **Alfonso Torres**, "Optical properties of amorphous silicon germanium obtained by low-frequency plasma-enhanced chemical vapor deposition from SiH<sub>4</sub> + GeF<sub>4</sub> and from SiH<sub>4</sub> + GeH<sub>4</sub>", Optical Engineering Vol. 44, No. 4, pp. 043801-1-5, April 2005. Estudiantes: Arllene M. Pérez, Carlos Zúñiga.
120. **Torres Torres R.**, R. Murphy, "Enabling a Compact Model to Simulate the RF Behavior of MOSFETs in SPICE", International Journal of RF and Microwave Computer-Aided Engineering, Vol. 15, No. 3, mayo 2005, pp. 255-263.
121. **Torres-Torres R., R. S. Murphy-Arteaga** and A. Reynoso-Hernández, "Analytical Model and Parameter Extraction to Account for the Pad Parasitics in RF-CMOS,"



### Artículos Arbitrados Publicados

IEEE Trans. on Electron Dev., Vol. 52, No. 7, pp. 1335 – 1342, 2005.ISSN: 0018-9383

122. **Rosales-Quintero P., A. Torres-Jacome, R. Murphy-Arteaga, F. J. De la Hidalga Wade**, L. F. Marsal, R. Cabré, and J. Pallarès, "Influence of the a-SiGe:H thickness on the conduction mechanisms of n-amorphous-SiGe:H/p-crystalline-Si heterojunction diodes", *J. Appl. Phys.* 97, Vol. 97, Issue 8, 15 April 2005.
123. **Zhenrui Yu, and Mariano Aceves**, "Study of the conduction properties of silicon-rich oxide under illumination" *Thin Solid Films*, 473 (2005), 145-150.

### Ciencias Computacionales

124. Luis López-Gutiérrez, **Leopoldo Altamirano-Robles**. "Decision fusion for target detection using multi-spectral image sequences from moving cameras". *Lecture Notes in Computer Science*, Vol. 3523. Estoril, Portugal, June 2005. pp 720-728.
125. Cesar Torres Huitzil, **Miguel Arias Estrada**, "FPGA-based Configurable Systolic Architecture for Window-based Image Processing", *EURASIP Journal on Applied Signal Processing*, Special Issue on Machine Perception on a Chip. No. 7, 2005. pp 1024-1034.
126. López-Escobar Saúl, **Carrasco-Ochoa J. A., Martínez-Trinidad J. Fco.** "Global k-means with similarity functions.", *CIARP 2005*, *Lecture Notes in Computer Science*, Vol. 3773 Editorial Springer. Havana Cuba, November 2005. pp 392-399
127. Hernández-Reyes Edith, **Carrasco-Ochoa J. A., Martínez-Trinidad J. Fco.** "Classifier selection based on data complexity measures". *CIARP 2005*, *Lecture Notes in Computer Science*, Vol. 3773. Editorial, Springer. Havana Cuba, November 2005. pp 586-592.
128. Rodríguez-Colín Raúl, **Carrasco-Ochoa J.A., Martínez-Trinidad J. Fco.** "Reward-Punishment Editing for Mixed Data". *CIARP 2005*, *Lecture Notes in Computer Science*, Vol. 3773. Editorial, Springer. Havana Cuba, November 2005. pp 481-488.
129. Olvera-López José A., **Carrasco-Ochoa J. Ariel and Martínez-Trinidad José Fco.** "Sequential Search for Decremental Edition". *Lecture Notes in Computer Science*, Vol. 3578 Springer. Brisbane, Australia. Julio 2005, pp 280-285.
130. **Rene Cumplido**, Simon Jones, Roger Goodall, Steve Bateman, "A high-performance processor for embedded real-time control", *IEEE Transactions on Control Systems Technology*, Volume 13, Issue 3, May 2005 Page(s):485 – 492.
131. Olmos Ivan, **Jesus A. Gonzalez**, and Mauricio Osorio. "Mining Common Patterns on Graphs". *Lecture Notes in Artificial Intelligence*, Springer Verlag, ISSN 0302-9743, Vol. 3801, December 2005.



### Artículos Arbitrados Publicados

132. Thamar Solorio and **Aurelio López López**. "Learning Named Entity Recognition in Portuguese from Spanish". Lecture Notes in Computer Science, vol. 3406, Springer, 2005. pp. 762-768.
133. Ayaquica-Martínez I. O., **Martínez-Trinidad J. F., Carrasco-Ochoa J. A.** "Conceptual k-means algorithm with similarity functions". CIARP 2005, Lecture Notes in Computer Science, Vol. 3773. Editorial, Springer. Havana Cuba, November 2005. pp 368-376.
134. J. Arturo Olvera-López, **J. Fco. Martínez-Trinidad and J. Ariel Carrasco-Ochoa**. "Edition Schemes based on BSE". CIARP 2005, Lecture Notes in Computer Science, Vol. 3773. Editorial, Springer. Havana Cuba, November 2005. pp 360-367.
135. Thamar Solorio, Manuel Pérez-Coutiño, **Manuel Montes-y-Gómez, Luis Villaseñor-Pineda**, and **Aurelio López López**. "Question Classification in Spanish and Portuguese". Lecture Notes in Computer Science, vol. 3406, Springer, 2005. pp.612-619
136. Alberto Téllez-Valero, **Manuel Montes-y-Gómez, Luis Villaseñor-Pineda**. "A Machine Learning Approach to Information Extraction". Lecture Notes in Computer Science, vol. 3406, Springer, 2005. pp. 539-547.
137. Paolo Rosso, **Manuel Montes-y-Gómez**, Davide Buscaldi, Aarón Pancardo-Rodríguez, and **Luis Villaseñor-Pineda**. "Two Web-based approaches for Noun Sense Disambiguation". Lecture Notes in Computer Science, vol. 3406, Springer, 2005. pp 267-279.
138. Aarón Pancardo-Rodríguez, **Manuel Montes-y-Gómez, Luis Villaseñor-Pineda**, Paolo Rosso. "A mapping between Classifiers and Training Conditions for WSD". Lecture Notes in Computer Science, vol. 3406, Springer, 2005. pp. 246-249.
139. Davide Buscaldi, Paolo Rosso, and **Manuel Montes y Gómez**. "Context Expansion with Global Keywords for a Conceptual Density-Based WSD". Lecture Notes in Computer Science, vol. 3406, Springer, 2005. pp. 263-266.
140. M. Pérez-Coutiño, T. Solorio, **M. Montes-y-Gómez, A. López-López** and **L. Villaseñor-Pineda**. "Question Answering for Spanish Supported by Lexical Context Annotation". CLEF 2004, Lecture Notes in Computer Science, Vol. 3491. Springer, 2005. pp 502-511.
141. José Manuel Gómez Soriano, **Manuel Montes y Gómez**, Emilio Sanchis Arnal, Paolo Rosso. "A passage Retrieval System for Multilingual Question Answering". TSD 2005. Lecture Notes in Computer Science, Vol. 3658. Springer, 2005. pp 443-450. September 2005.



### Artículos Arbitrados Publicados

142. **Manuel Montes y Gómez.** "Minería de Texto empleando la Semejanza entre Estructuras Semánticas". Revista Computación y Sistemas. Volumen 9 Número 1, Julio-Septiembre, 2005. pp. 63-81.
143. José Manuel Gómez-Soriano, **Manuel Montes-y-Gómez**, Emilio Sanchis-Arnal, **Luis Villaseñor-Pineda**, Paolo Rosso. "Language-Independent Passage Retrieval for Question Answering". MICAI 2005. Lecture Notes in Artificial Intelligence, Vol.3789. Springer, 2005. pp. 816-823. November 2005.
144. Humberto Pérez Espinosa and **Carlos Alberto Reyes García**, "Building and Training of a New Mexican Spanish Voice for Festival", in Lecture Notes in Artificial Intelligence 3789: Advances in Artificial Intelligence, edited by Alexander Gelbukh, Alvaro de Albornoz, and Hugo Terashima-Marin, Springer, Berlin, 2005, pp 870-879, ISBN 3-540-29896-7, ISSN: 0302-9743. November 2005.
145. Orion F. Reyes Galaviz and **Carlos Alberto Reyes García**, "Infant Cry Classification to Identify Hypo Acoustics and Asphyxia comparing an Evolutionary-Neural System with a Neural Network System", in Lecture Notes in Artificial Intelligence 3789: Advances in Artificial Intelligence, edited by Alexander Gelbukh, Alvaro de Albornoz, and Hugo Terashima-Marin, Springer, Berlin, 2005, pp 949-958, ISBN 3-540-29896-7, ISSN: 0302-9743. November 2005.
146. Agustín León-Barranco, **Carlos A. Reyes-García**, "ARGEN + AREPO: Improving the Search Process with Artificial Genetic Engineering", in Lecture Notes in Computer Science 3512: Computational Intelligence and Bioinspired Systems, Edited by Joan Cabestany, Alberto Prieto and Francisco Sandoval, Springer, Berlin, June 2005, pp 637-645, ISBN 3-540-26208-3, ISSN 0302-9743
147. **Luis Villaseñor-Pineda**, Viet Bac Le, **Manuel Montes-y-Gómez** & Manuel Pérez-Coutiño. "Toward Acoustic Models for Languages with Limited Linguistic Resources". Lecture Notes in Computer Science, vol. 3406, Springer, 2005. pp. 433-436. February 2005.
148. Rita Aceves-Pérez, **Luis Villaseñor-Pineda** and **Manuel Montes-y-Gómez**. "Towards a Multilingual QA System based on the Web Data Redundancy". Lecture Notes in Artificial Intelligence, No. 3528, Springer, 2005. pp. 32-37. June 2005.
149. Rafael Guzmán-Cabrera, **Manuel Montes-y-Gómez**, Paolo Rosso. "Búsqueda de Colocaciones en la Web para Sinónimos de WordNet". Acta Universitaria Vol. 15, No. 2, Mayo-Agosto 2005. pp. 50-56.