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ARTICULOS EN REVISTAS INDEXADAS

1. E.A. Kaner and F. Pérez Rodríguez. “Compensation and increase of sound absorption in magnetoacoustic resonance and Doppler-shifted acoustic cyclotron resonance”, *Fiz. Nizk. Temp.*, T. **14**, No. 1, 39-51 (1988), en ruso [Sov. J. Low Temp. Phys. **14**, 21-27 (1988), en inglés].
2. N.M. Makarov, F. Pérez Rodríguez and V.A. Yampol’skii. “Nonlinear skin effect and electromagnetic sound generation”, *Phys. Lett. A*, **130**, No. 6, 390-394 (1988).
3. N.M. Makarov, F. Pérez Rodríguez and V.A. Yampol’skii. “Electromagnetic excitation of sound in metals in the nonlinear anomalous skin effect”, *Zh. Eksp. Teor. Fiz.*, **94**, 368-379 (1988), en ruso [Sov. Phys.-JETP, **67**, 1943-1949 (1988), en inglés].
4. N.M. Makarov, F. Pérez Rodríguez and V.A. Yampol’skii. “Hysteresis and jumps for the amplitude of electromagnetically excited sound in metals placed in a magnetic field”, *Phys. Lett. A*, **133**, No. 9, 536-542 (1988).
5. N.M. Makarov, F. Pérez Rodríguez and V.A. Yampol’skii. “Peaked structure of an acoustic field excited by strong electromagnetic waves in a metal”. *Fiz. Tverd. Tela* (Leningrad), T. **31**, No. 7, 31-35 (1989), en ruso [Sov. Phys.-Solid State, **31**, 1116-1118 (1989), en inglés].
6. N.M. Makarov, F. Pérez Rodríguez and V.A. Yampol’skii. “Nonlinear generation of sound in metals in the current state”, *Zh. Eksp. Teor. Fiz.*, T. **96**, No. 6(12), 2149-2162 (1989), en ruso [Sov. Phys.-JETP, **69**, 1216-1223 (1989), en inglés].
7. F. Pérez-Rodríguez and P. Halevi. “Interaction of excitons with a generalized Morse surface potential: s-polarized incidence of light at a semiconductor surface”. *Phys. Rev. B* **45**, 11854-11862 (1992).
8. P. Halevi and F. Pérez-Rodríguez. “Optical manifestation of excitons in semiconductors with an extrinsic surface potential”, *Fiz. Nizk. Temp. Vol.* **18**, No. 10, 1135-1141 (1992) [Sov. J. Low Temp. Phys. **18** (10), 795-800 (1992)].
9. L.M. Fisher, N.V. Il’in, I.F. Voloshin, N.M. Makarov, V.A. Yampol’skii, F. Pérez-Rodríguez, and R.L. Snyder. “On the applicability of the critical state model to the description of electromagnetic properties of high- T_c superconductors”. *Physica C* **206**, 195–201 (1993).
10. F. Pérez-Rodríguez and P. Halevi. “Quantized polarization waves of excitons at semiconductor surfaces”. *Phys. Rev. B* **48** (Rapid Communications), 2016-2019 (1993).

11. F. Pérez-Rodríguez, N.M. Makarov and V.A. Yampol'skii. "Nonlinear electromagnetic generation of sound in a metal plate". Phys. Rev. B **48**, 9434-9446 (1993).
12. N.M. Makarov, G.B. Tkachev, V.A. Yampol'skii, and F. Pérez-Rodríguez. "Current states in a metal plate" . J. Phys.: Condens. Matter **5**, 7469-7480 (1993). ISSN:0953-8984
13. L.M. Fisher, I.F. Voloshin, N.M. Makarov, V.A. Yampol'skii, E. López-Cruz, and F. Pérez-Rodríguez. "Features of the electromagnetic absorption in high- J_c melt-textured samples". J. Appl. Phys. **75**(11), 7414-7417 (1994). ISSN:0021-8979.
14. F. Pérez-Rodríguez, Wei Wang, and E. Canessa. "Optical diffraction from fractals with a structural transition", Optics Comm., Vol. **108**, 185-190 (1994).
15. B. Flores-Desirena, F. Pérez-Rodríguez and P. Halevi. "Interaction of exciton-polaritons with the surface potential of thin semiconductor films: s-polarization geometry", Phys. Rev. B **50** , 5404-5411 (1994).
16. L.M. Fisher, J. Mirković, I.F. Voloshin, N.M. Makarov, V.A. Yampol'skii, F. Pérez-Rodríguez, and R.L. Snyder. "Frequency limitations for the applicability of the critical state model". Appl. Supercond., Vol. **2**, No. 10-12, 685-687 (1994).
17. F. Pérez-Rodríguez, I.V. Baltaga, K.V. Il'enko, N.M. Makarov, V.A. Yampol'skii, L.M. Fisher, A.V. Kalinov, I.F. Voloshin. "Interaction of Electromagnetic Waves in Hard Superconductors". Physica C, **251**, 50-60 (1995).
18. F. Pérez-Rodríguez, N.M. Makarov, V.A. Yampol'skii, I.O. Lyubimova, O.I. Lyubimov. "Size effect in Hard Superconductors at Unilateral Excitation". Appl. Phys. Lett. **67** (3), 419-421 (1995). ISSN:0003-6951.
19. F. Pérez-Rodríguez and P. Halevi. "Interaction of excitons with a generalized Morse surface potential: p-polarization geometry of the incident light at a semiconductor surface". Phys. Rev. B **53**, 10086-10093 (1996).
20. F. Pérez-Rodríguez, N.M. Makarov, V.A. Yampol'skii, I.O. Lyubimova, O.I. Lyubimov. "Effect of the substrate on the ac response of superconductors with strong pinning to an incident plane wave". J. Appl. Phys. **80**, 6370-6377 (1996). ISSN:0021-8979.
21. I.F. Voloshin, A.V. Kalinov, S.E. Savel'ev, L.M. Fisher, V.A. Yampol'skii, and F. Pérez-Rodríguez, "Electrodynamics of hard superconductors in crossed magnetic fields", Zh. Eksp. Teor. Fiz. **111**, 1071-1084 (1997), en ruso [JETP, **84**, 592-598 (1997), en inglés].

22. O.I. Lyubimova, I.V. Baltaga, A.A. Kats, V.A. Yampol'skii, and F. Pérez-Rodríguez, "Interaction of electromagnetic waves in a hard superconducting plate with unilateral excitation", *Fiz. Nizk. Temp.* **23**, 389-398 (1997), en ruso [Low Temp. Phys. **23**, 285-292 (1997), en inglés].
23. J. Madrigal-Melchor, F. Pérez-Rodríguez, J.A. Maytorena and W.L. Mochán. "An optical spectroscopy for detecting quantized polarization waves of excitons". *Appl. Phys. Lett.* **71**, 69-71 (1997).
ISSN:0003-6951.
24. F. Pérez-Rodríguez, A. Pérez-González, J.R. Clem, G. Gandolfini, and M.A.R. LeBlanc, "Flux-line cutting in granular high-temperature superconductors". *Phys. Rev. B* **56**, 3473-3480 (1997).
25. O.I. Lyubimov, I.O. Lyubimova, V.A. Yampol'skii, F. Pérez-Rodríguez. "Size effect in high-temperature superconductors at unilateral electromagnetic excitation". *Rev. Mex. Fís.* **43**, 592-599 (1997).
ISSN:0035-001X.
26. S.A. Derev'anko, I.O. Lyubimova, V.A. Yampol'skii, F. Pérez-Rodríguez, "Stimulated transparency of a superconducting plate caused by nonlinear interaction of electromagnetic waves", *Appl. Phys. Lett.* **71**, 953-955 (1997).
ISSN:0003-6951.
27. A. Silva-Castillo, R.A. Brito-Orta, A. Pérez-González, and F. Pérez-Rodríguez, "Double critical-state model for the weak-link regime of granular high- T_c superconductors", *Physica C* **296**, 75-83 (1998).
28. J. Madrigal-Melchor, F. Pérez-Rodríguez, A. Silva-Castillo, H. Azucena-Coyotécatl, "Manifestation of near-surface localized excitons in spectra of diffuse reflection of light", *Phys. Solid State* **40**, 796-797 (1998).
29. F. Pérez-Rodríguez, J. Récamier and W.L. Mochán. "Direct photon-phonon coupling at (001) surfaces of zinc-blende structure crystals", *Surface Science* **414**, 93-106 (1998).
30. A. Silva-Castillo, F. Pérez-Rodríguez, "Infrared 45° reflectometry of very thin films", *J. Appl. Phys.* **86**, 1404-1409 (1999).
ISSN:0021-8979.
31. H. Azucena-Coyotécatl, N.R. Grigorieva, B.A. Kazennov, J. Madrigal-Melchor, B.V. Novikov, F. Pérez-Rodríguez, and A.V. Sel'kin, "Optical spectroscopy of near-surface excitonic states", *Superficies y Vacío* **9**, 313-315 (1999).
32. L.M. Fisher, A.V. Kalinov, M. LeBlanc, F. Pérez-Rodríguez, S.E. Savel'ev, I.F. Voloshin, V.A. Yampol'skii, "Suppression of the magnetic moment of a hard superconductor under the action of a transverse magnetic field", *Physica B* **284-288**, 863-864 (2000).

33. F. Pérez-Rodríguez, N.M. Makarov, O.M. Yevtushenko, A. Panchekha, “Multi-fractal properties of the nonlinear electromagnetic response of irreversible type-II superconductors”, Phys. Lett. A **266**, 409-413 (2000).
34. A. Silva-Castillo and F. Pérez-Rodríguez, “Infrared 45° reflectometry of anisotropic ultrathin films and heterostructures”, Phys. Stat. Sol. (b) **219**, 215-225 (2000).
35. A. Silva-Castillo, J. Madrigal-Melchor, F. Pérez-Rodríguez, “Applications of the 45° reflectometry in the study of optical properties of confined semiconductor systems”, Microelectron. J. **31**, 433-436 (2000).
36. L.M. Fisher, K.V. Il’enko, A.V. Kalinov, M.A.R. LeBlanc, F. Pérez-Rodríguez, S.E. Savel’ev, I.F. Voloshin, V.A. Yampol’skii, “Suppression of the magnetic moment under the action of a transverse magnetic field in hard superconductors”, Phys. Rev. B **61**, 15382-15391 (2000).
37. J. Madrigal-Melchor, H. Azucena-Coyotécatl, A. Silva-Castillo, F. Pérez-Rodríguez, “Light scattering from slightly rough semiconductor surfaces near exciton resonance”, Phys. Rev. B **61**, 15993-16005 (2000).
38. H. Azucena-Coyotécatl, N.R. Grigorieva, B.A. Kazennov, J. Madrigal-Melchor, B.V. Novikov, F. Pérez-Rodríguez, and A.V. Sel’kin, “Optical spectroscopy of near-surface excitonic states”, Thin Solid Films **373**, 227-230 (2000).
39. S.A. Derev’anko, V.A. Yampol’skii, O.I. Lyubimov, and F. Pérez-Rodríguez, “Effect of the stimulated transparency of a superconducting plate due to the nonlinear wave interaction”, Physica C **353**, 38-48 (2001).
40. F. Pérez-Rodríguez, M.A.R. LeBlanc, G. Gandolfini, “Flux-line cutting in granular high- T_c and semi-reversible classical type-II superconductors”, Supercond. Sci. Technol. **14**, 386-397 (2001).
41. N. Atenco-Analco, N.M. Makarov, F. Pérez-Rodríguez, “Surface scattering frequency and optical absorptivity of exciton in quasi-two-dimensional quantum wells”, Solid State Commun. **119**, 163-167 (2001).
42. A.F. Carballo-Sánchez, F. Pérez-Rodríguez, A. Pérez-González, “Magnetic response of hard superconductors subjected to parallel rotating magnetic fields”, J. Appl. Phys. **90**, 3455-3461 (2001).
ISSN:0021-8979.
43. A. Silva-Castillo and F. Pérez-Rodríguez, “Quantization of longitudinal excitons in CuCl thin films”, J. Appl. Phys. **90**, 3662-3664 (2001).
ISSN:0021-8979.
44. A. Silva-Castillo and F. Pérez-Rodríguez, “45° reflectometry of semiconductor quantum wells”, Mod. Phys. Lett. B **15**, 683-687 (2001).

45. N. Atenco-Analco, B. Flores-Desirena, A. Silva-Castillo, F. Pérez-Rodríguez, “Optical properties of near-surface exciton quantum wells”, *Superficies y Vacío* **13**, 134-139 (2001).
46. N. Atenco-Analco, N.M. Makarov, F. Pérez-Rodríguez, “Surface relaxation frequency of ground-state exciton in quantum wells”, *Microelectron. J.* **33**, 375-378 (2002).
47. N. Atenco-Analco, F. Pérez-Rodríguez, J. Madrigal-Melchor, “Dispersión de luz por la superficie rugosa de una película excitónica delgada sobre un substrato metálico”, *Rev. Mex. Fís.* **48**, 197-204 (2002).
ISSN:0035-001X.
48. B. Flores-Desirena, A. Silva-Castillo, F. Pérez-Rodríguez, “Optical manifestation of quantized longitudinal polarization waves of excitons in thin films”, *J. Appl. Phys.* **93**, 3308-3314 (2003).
ISSN:0021-8979.
49. B. Flores-Desirena, F. Pérez-Rodríguez, “Optical manifestation of magnetoexcitons in near-surface quantum wells”, *Appl. Surf. Sci.* **212-213**, 127-130 (2003).
50. N. Atenco-Analco, F. Pérez-Rodríguez, N. M. Makarov “Surface-induced broadening and shift of exciton resonances in the thin film regime”, *Appl. Surf. Sci.* **212-213**, 782-786 (2003).
51. C. Romero-Salazar and F. Pérez-Rodríguez, “Critical state of anisotropic hard superconductors”, *Supercond. Sci. Technol.* **16**, 1273-1281 (2003).
52. C. Romero-Salazar and F. Pérez-Rodríguez, “Magnetic behavior of granular high- T_c superconductors in the weak-link regime”, *J. Non-Cryst. Sol.* **329**, 159-162 (2003).
53. N. Atenco-Analco, N. M. Makarov, F. Pérez-Rodríguez, “Surface-induced broadening and shift of exciton ground-state resonance in quantum wells”, *Phys. Stat. Sol. (c)* **0**, 2921-2925 (2003).
54. P.I. Kuznetsov, J. Madrigal-Melchor, F. Pérez-Rodríguez, S.O. Romanovsky, A.V. Sel'kin, and G.G. Yakushcheva, “Fine structure of reflectance spectra due to exciton quantization in near-surface quantum wells based on ZnS_xSe_{1-x} ternary alloys”, *Phys. Stat. Sol. (c)* **0**, 2926-2930 (2003).
55. C. Romero-Salazar and F. Pérez-Rodríguez, “Elliptic flux-line-cutting critical-state model”, *Appl. Phys. Lett.* **83**, 5256-5258 (2003).
ISSN:0003-6951.

56. N. Atenco-Analco, F. Pérez-Rodríguez, N.M. Makarov, “Broadening and shift of excitonic resonances in quantum wells with adiabatic interface roughness”, *Superficies y Vacío* **16**(3), 7-11 (2003).
57. C. Romero-Salazar and F. Pérez-Rodríguez, “Response of hard superconductors to crossed magnetic fields: elliptic critical-state model”, *Physica C* **404**, 317-321 (2004).
58. B. Flores-Desirena, F. Pérez-Rodríguez “Optical response of magnetoexcitons in near-surface double quantum wells”, *Phys. Stat. Solidi (c)* **1**, No. S1, S38-S41 (2004).
59. E. Sánchez-Mora, E. Gómez-Barojas, J.M. Gracia-Jiménez, R. Silva-González, and F. Pérez-Rodríguez, “Synthesis and characterization of $Fe_2O_3 - TiO_2$ thin films grown by the sol-gel method”, *Phys. Stat. Solidi (c)* **1**, No. S1, S116-S120 (2004).
60. F. L. Pérez-Sánchez, F. Pérez-Rodríguez, “Manifestation of surface phonons in far infrared reflectivity of diamond-type semiconductors”, *Phys. Stat. Solidi (c)* **1**, No. 11, 3065-3068 (2004).
61. F.L. Pérez-Sánchez, F. Pérez-Rodríguez, “Fonones en cristales con estructura de diamante”, *Rev. Mex. Fís. E* **50** (2), 96-103 (2004).
ISSN:1870-3542.
62. C. Romero-Salazar, L.D. Valenzuela-Alacio, A.F. Carballo-Sánchez, and F. Pérez-Rodríguez, “Flux-line cutting in hard superconductors”, *J. Low Temp. Phys.* **139**, 273-280 (2005).
ISSN: 0022-2291.
63. N. Atenco-Analco, N. M. Makarov, F. Pérez-Rodríguez, “Exciton spectrum of surface-corrugated quantum wells: The adiabatic self-consistent approach”, *Rev. Mex. Fís.* **51**, 53-63 (2005).
ISSN:0035-001X.
64. P. Halevi and F. Pérez-Rodríguez, “From photonic crystals (via homogenization) to metamaterials”, *Proc. SPIE*, **6320**, 63200T (2006) (*9 pages*).
ISSN:0277-786X.
65. B. Flores-Desirena, F. Pérez-Rodríguez, “Propiedades ópticas de magnetoexcitones en un pozo cuántico doble cerca de la superficie”, *Superficies y Vacío*, **19**(4), 5-9 (2006).
ISSN:1665-3521.
66. B. Flores-Desirena and F. Pérez-Rodríguez, “Magnetoexcitons in near-surface symmetric and asymmetric double quantum wells: optical properties”, *J. Appl. Phys.* **102**, 063530 (2007) (*8 pages*).
ISSN:0021-8979.

67. R. Márquez-Islas, B. Flores-Desirena, and F. Pérez-Rodríguez, “Exciton polaritons in one-dimensional metal-semiconductor photonic crystals”, *J. Nanosci. Nanotechnol.* **8**, 6584-6588 (2008).
ISSN:1533-4880.
68. J. Tlamani-Amador and F. Pérez-Rodríguez, “Effective thermal parameters for a bilayer”, *J. Appl. Phys.* **104**, 093535 (2008) (*6 pages*).
ISSN:0021-8979
69. B. Flores-Desirena, R. Márquez-Islas, N. Atenco-Analco, and F. Pérez-Rodríguez, “On the coupling of size-quantized excitons with light in one-dimensional dielectric-semiconductor photonic crystals”, *Rev. Mex. Fís. S* **52**(2), 87-94 (2008).
ISSN:0035-001X.
70. F. L. Pérez-Sánchez and F. Pérez-Rodríguez, “Electromagnetic excitation of phonons at C(001) surfaces”, *J. Phys.: Condens. Matter* **21**, 355010 (2009) (*9 pages*).
ISSN:0953-8984.
71. V. Cerdán-Ramírez, B. Zenteno-Mateo, M. P. Sampedro, M.A. Palomino-Ovando, B. Flores-Desirena, and F. Pérez-Rodríguez, “Anisotropy effects in magneto-dielectric photonic crystals”, *J. Appl. Phys.* **106**, 103520 (2009) (*8 pages*)
ISSN:0021-8979.
72. A. Paredes-Juárez, F. Díaz-Monge, N.M. Makarov, and F. Pérez-Rodríguez, “Nonlocal effects in the electrodynamics of metallic slabs”, *JETP Lett.* **90**, 687-692 (2009), en ruso. (*JETP Lett.* **90**, 623-627 (2009), en inglés).
ISSN:0021-3640 (Print), 1090-6487 (Online).
73. A. Nabiałek, S. Vasiliev, V. Chabanenko, F. Pérez-Rodríguez, S. Piechota, and H. Szymczak, “The influence of magnetic history on the stability of critical state and the dynamics of flux jumps in conventional NbTi superconductor”, *Acta Phys. Pol. A* **118**, 343-345 (2010).
ISSN:0587-4246 (Print), 1898-794X (Online).
74. F.L. Pérez-Sánchez and F. Pérez-Rodríguez, “Theoretical study on photon-phonon coupling at (001)-(2×1) Surfaces of Ge and α -Sn”, *Phys. Status Solidi B* **248**, 1379-1387 (2011).
ISSN: 0370-1972 (print), 1521-3951 (online).
75. B. Flores-Desirena and F. Pérez-Rodríguez, “Photon-magnetoexciton coupling in quantum wells induced by in-plane electric field”, *J. Appl. Phys.* **109**, 014303 (2011) (*8 pages*).
ISSN:0021-8979.

76. B. Zenteno-Mateo, V. Cerdán-Ramírez, B. Flores-Desirena, M. P. Sampedro, E. Juárez-Ruiz, and F. Pérez-Rodríguez, “Effective permittivity tensor for a metal-dielectric superlattice”, *Progress in Electromagnetics Research Letters (PIER Lett.)* **22**, 165-174 (2011).
ISSN: 1937-6480.
77. J.A. Reyes-Avendaño, U. Algredo-Badillo, P. Halevi, and F. Pérez-Rodríguez, “From photonic crystals to metamaterials: the bianisotropic response”, *New J. Phys.* **13**, 073041 (2011) (*33 pages*).
Online at <http://www.njp.org/>
ISSN:1367-2630.
78. R. Cortés-Maldonado, J.E. Espinosa-Rosales, A.F. Carballo-Sánchez, F. Pérez-Rodríguez, “Flux-cutting and flux-transport effects in type-II superconductor slabs in a parallel rotating magnetic field”, *Fizika Nizkikh Temperatur* **37**, No. 11, 1190-1200 (2011) [*Low Temperature Physics* **37**, No. 11, 947-956 (2011)].
Online at <http://fntr.ilt.kharkov.ua/list.php>
http://ltp.aip.org/resource/1/ltpheg/v37/i11/p947_s1?isAuthorized=no
ISSN: 1063-777X (Print), 1090-6517 (Online).
79. M. Pal, U. Pal, J.M. Gracia, and F. Pérez-Rodríguez, “Effects of crystallization and dopant concentration on the emission behavior of TiO₂:Eu nanophosphors”, *Nanoscale Research Letters* **7**: 1 (2012) (*12 pages*).
Online at: <http://www.nanoscalereslett.com/content/7/1/1>
ISSN: 1556-276X.
80. A. Nabiałek, A. Wiśniewski, V.V. Chabanenko, S.V. Vasiliev, T.V. Tsvetkov, and F. Pérez-Rodríguez, “The influence of crystal anisotropy on the critical state stability and flux jumps dynamics in a single crystal of La_{1.85}Sr_{0.15}CuO₄”, *Supercond. Sci. Technol.* **25**, 035005 (2012) (*10 pages*).
Online at: <http://iopscience.iop.org/0953-2048/25/3/035005>
ISSN: 0953-2048.
81. R. Márquez-Islas, B. Flores-Desirena, and F. Pérez-Rodríguez, “Quantized longitudinal exciton-polaritons in periodic metal-semiconductor nanostructures”, *Photonics and Nanostructures – Fundamentals and Applications* **10**, 69-82 (2012).
Online at <http://dx.doi.org/10.1016/j.photonics.2011.07.003>
ISSN:1569-4410.
82. E. Sánchez-Mora, M. Fernández-Candelario, E. Gómez-Barojas and F. Pérez-Rodríguez, “Influence of Fe Ions on the Optical Properties of Fe-ZnO Inverse Opals”, *Journal of Superconductivity and Novel Magnetism* **26**, 2447-2449 (2013).
Online at <http://link.springer.com/article/10.1007/s10948-012-1609-y>
ISSN: 1557-1939 (Print version), 1557-1947 (Electronic version).

83. D.V. Kadygrob, N.M. Makarov, F. Pérez-Rodríguez, T.M. Slipchenko, and V.A. Yampol'skii, "Enhanced transmission of terahertz radiation through periodically modulated slabs of layered superconductors", *New. J. Phys.* **15**, 023040 (2013) (*9 pages*).
 Online at <http://dx.doi.org/10.1088/1367-2630/15/2/023040>
 ISSN: 1367-2630.
84. I.S. Solís-Mora, M.A. Palomino-Ovando, and F. Pérez-Rodríguez, "Elastic superlattices with simultaneously negative effective mass density and shear modulus", *J. Appl. Phys.* **113**, 093508 (2013) (*5 pages*).
 View online: <http://dx.doi.org/10.1063/1.4794314>
 ISSN: 0021-8979.
85. V.V. Chabanenko, S.V. Vasiliev, A. Nabialek, G.S. Shushmakova, F. Pérez-Rodríguez, V.F. Rusakov, A. Szewczyk, B.N. Kodess, M. Gutowska, J. Wieckowski, H. Szymczak, "Boundaries of the critical state stability in a hard superconductor Nb₃Al in the $H - T$ plane", *Fizika Nizkikh Temperatur* **39**, No. 4, 424-434 (2013) [Low Temperature Physics **39**, No. 4, 329-337 (2013)].
 View online: <http://dx.doi.org/10.1063/1.4801433>
 ISSN: 1063-777X (Print), 1090-6517 (Online).
86. J. Flores-Méndez and F. Pérez-Rodríguez, "Metasolid with anisotropic mass density", *Europhys. Lett.* **103**, 54001 (2013) (*6 pages*).
 View online: <http://dx.doi.org/10.1209/0295-5075/103/54001>
 ISSN: 0295-5075.
87. R. Cortés-Maldonado, O. De la Peña-Seaman, V. García-Vázquez, and F. Pérez-Rodríguez, "On the extended elliptic critical-state model for hard superconductors", *Supercond. Sci. Technol.* **26**, 125001 (2013) (*9 pages*).
 Online at: <http://dx.doi.org/10.1088/0953-2048/26/12/125001>
 ISSN: 0953-2048.
88. A. Paredes-Juárez, D. A. Iakushev, B. Flores-Desirena, N. M. Makarov, F. Pérez-Rodríguez, "Nonlocal Effect on Optic Spectrum of a Periodic Dielectric-Metal Stack", *Optics Express* **22**, No. 7, 7581-7586 (2014).
 DOI:10.1364/OE.22.007581
 ISSN: 1094-4087.
89. J. A. Reyes-Avendaño, M. P. Sampedro, E. Juárez-Ruiz, F. Pérez-Rodríguez, "Bianisotropic metamaterials based on twisted asymmetric crosses", *Journal of Optics* **16**, 065102 (2014) (*14 pages*).
 DOI:10.1088/2040-8978/16/6/065102
 ISSN: 2040-8978.
90. V. Chabanenko, E. Kuchuk, V.V. Yurchenko, P. Mikheenko, I. Abal'osheva, R. Cortés-Maldonado, F. Pérez-Rodríguez, J. Karpinski, N.D. Zhigadlo, S. Katrych, and R. Puźniak, "Magnetic field penetration in MgB₂ single crystals:

- Pinning and Meissner holes”, Fizika Nizkikh Temperatur, **40**, No. 7, 801-806 (2014) [Low Temperature Physics **40**, No. 7, 621-625 (2014)].
View online: <http://dx.doi.org/10.1063/1.4887061>
ISSN: 1063-777X (Print), 1090-6517 (Online).
91. J.I. Peña-Flores, A.F. Palomec-Garfias, C. Márquez-Beltrán, E. Sánchez-Mora, E. Gómez-Barojas, and F. Pérez-Rodríguez, “Fe effect on the optical properties of $\text{TiO}_2:\text{Fe}_2\text{O}_3$ nanostructured composites supported on SiO_2 microspheres assemblies”, Nanoscale Research Letters, **9**: 499 (2014), (*7 pages*).
View online: <http://www.nanoscalereslett.com/content/9/1/499>
doi:10.1186/1556-276X-9-499
ISSN: 1556-276X.
92. S. V. Vasiliev, O. M. Chumak, V. V. Chabanenko, F. Pérez-Rodríguez, and A. Nabiałek, “Stability of Bilayer Superconductors against Thermomagnetic Avalanche”, Acta Phys. Pol. A, **126**, No. 4A, A-84–A-87 (2014).
DOI: 10.12693/APhysPolA.126.A-84
ISSN:0587-4246 (Print), 1898-794X (Online).
93. O. M. Chumak, V. V. Chabanenko, V. F. Rusakov, S. V. Vasiliev, F. Pérez-Rodríguez, A. Nabiałek, “Threshold Field for Runaway Instability of Bilayer Hard Type-II Superconductor”, J. Low Temp. Phys., **179**, 75-82 (2015).
DOI:10.1007/s10909-014-1230-5
ISSN: 0022-2291.
94. F. Díaz-Monge, A. Paredes-Juárez, D. A. Iakushev, N. M. Makarov, F. Pérez-Rodríguez, “THz photonic bands of periodic stacks composed of resonant dielectric and nonlocal metal”, Optical Materials Express, **5**, Iss. 2, pp. 361-372 (2015).
<http://dx.doi.org/10.1364/OME.5.000361>
eISSN: 2159-3930.
95. V. Mezhuyev, F. Pérez-Rodríguez, “Metamodelling approach and software tools for physical modelling and simulation” International Journal of Software Engineering & Computer Sciences (IJSECS), Volume 1, pp. 1-13, (2015).
<http://dx.doi.org/10.15282/ijsecs.1.2015.1.0001>
ISSN: 2289-8522.
96. E. Gutiérrez-Reyes, J. Flores-Méndez, A. L. González, and F. Pérez-Rodríguez, “Anisotropic mass density by three-dimensional elastic metamaterials”, Proc. SPIE **9438**, 94381H (March 23, 2015), *10 pages*;
<http://dx.doi.org/10.1117/12.2084270>
ISSN: 0277-786X.
97. A. Paredes-Juárez, D. A. Iakushev, B. Flores-Desirena, N. M. Makarov, F. Pérez-Rodríguez, “Landau damping of electromagnetic transport via dielectric-metal superlattices”, Optics Letters **40**, Issue 15, pp. 3588-3591 (2015)

<http://dx.doi.org/10.1364/OL.40.003588>
ISSN: 0146-9592.

98. R. Márquez-Islas, B. Zenteno-Mateo, B. Flores-Desirena, A. Reyes-Coronado, F. Pérez-Rodríguez, “Plasma-phonon polaritons in superlattices of semimetal bismuth and polaritonic material”, *Optical Materials Express*, **5**, Iss. 12, pp. 2820-2834 (2015).
DOI:10.1364/OME.5.002820
eISSN: 2159-3930.
99. V.V. Chabanenko, E.I. Kuchuk, V.F. Rusakov, I. Abaloszewska, A. Nabialek, F. Pérez-Rodríguez, “Transformation of the critical state in hard superconductors resulting from thermomagnetic avalanches”, *Fizika Nizkikh Temperatur* **42**, No. 4, 311-334 (2016), in Russian [Low Temperature Physics **42**, 239-257 (2016), in English].
<http://dx.doi.org/10.1063/1.4947599>
ISSN: 1063-777X (Print), 1090-6517 (Online).
100. E. Juárez-Ruiz, R. Cortés-Maldonado, F. Pérez-Rodríguez, “Relationship between the Inverses of a Matrix and a Submatrix”, *Computación y Sistemas*, **20**, No. 2, pp. 251-262 (2016).
doi: 10.13053/CyS-20-2-2083
ISSN: 1405-5546.
101. S. S. Apostolov, Z. A. Maizelis, N. M. Makarov, F. Pérez-Rodríguez, T. N. Rokhmanova, and V.A. Yampol'skii, “Transmission of THz waves through layered superconductors controlled by DC magnetic field”, *Phys. Rev. B*, **94**, 024513 (2016).
doi: 10.1103/PhysRevB.94.024513
ISSN: 2469-9950
102. S. Cortés-López and F. Pérez-Rodríguez, “Quantization of electromagnetic modes in a hyperbolic negative-index layered superconductor slab”, *Acta Phys. Pol. A*, **130**, No. 2, 641-644 (2016).
DOI: 10.12693/APhysPolA.130.641
ISSN:0587-4246 (Print), 1898-794X (Online).
103. C. Romero-Salazar, O. A. Hernández-Flores, V. Chabanenko, E. I. Kuchuk, I. Abaloszewska, A. Nabialek, F. Pérez-Rodríguez, “Obtaining a rough flux front in type-II superconductors using a critical state model”, *Acta Phys. Pol. A*, **130**, No. 2, 645-648 (2016).
DOI: 10.12693/APhysPolA.130.645
ISSN:0587-4246 (Print), 1898-794X (Online).
104. A. Konovalenko, E. Gutiérrez-Reyes, A. L. González, J. Flores-Méndez, F. Pérez-Rodríguez, “Nonlocal metasolid response of homogenized phononic crystals”, *J. Appl. Phys.* **121**, 155102 (2017) (*9 pages*).

DOI: 10.1063/1.4981129
ISSN:0021-8979.

105. V. V. Chabachenko, E. E. Zubov, A. Nabialek, R. O. Kochkanjan, R. Escudero, F. Morales, F. Pérez-Rodríguez, S. Zolotar, R. Puźniak, “The magnetic properties of C-Ni carbon-metal complexes”, Low Temperature Physics **43**, 625-630 (2017). [Fizika Nizkikh Temperatur **43**, No. 5, 782-788 (2017)]
<http://dx.doi.org/10.1063/1.4985218>
ISSN: 1063-777X (Print), 1090-6517 (Online)
106. A. Konovalenko and F. Pérez-Rodríguez, “Nonlocal response of tunable photonic metamaterials with semiconductor inclusions”, Journal of the Optical Society of America B **34**, 2031-2040 (2017).
<https://doi.org/10.1364/JOSAB.34.002031>
ISSN: 0740-3224
107. C. Romero-Salazar, O. A. Hernández-Flores, O. Chumak, F. Pérez-Rodríguez, and V. Chabanenko, “Emulating rough flux patterns in type-II superconducting cylinders using the elliptic critical-state model”, J. Appl. Phys. **122**, 143904 (2017) (*7 pages*).
DOI: 10.1063/1.4994905
ISSN:0021-8979.
108. D. A. Iakushev, N. M. Makarov, F. Pérez-Rodríguez, “Narrow-pass-band filters based on binary superlattices with strong impedance contrast”, Low Temperature Physics **43**, 914-918 (2017). [Fizika Nizkikh Temperatur **43**, No. 8, 1141-1145 (2017)]
<http://dx.doi.org/10.1063/1.5001289>
ISSN: 1063-777X (Print), 1090-6517 (Online).
109. S. G. Castillo-López, N. M. Makarov, and F. Pérez-Rodríguez, “Quantum resonances of Landau damping in the electromagnetic response of metallic nanoslabs”, Optics Letters **43**, No. 10, 2410-2411 (2018)
<https://doi.org/10.1364/OL.43.002410>
ISSN: 0146-9592.
110. C.E. Ávila-Crisóstomo, E. Sánchez-Mora, V. García-Vazquez, F. Pérez-Rodríguez, “Magnetic response of Fe nanoparticles embedded in artificial SiO₂ opals”, Journal of Magnetism and Magnetic Materials, **465**, 252-259 (2018)
<https://doi.org/10.1016/j.jmmm.2018.05.087>
ISSN: 0304-8853.
111. S. G. Castillo-López, F. Pérez-Rodríguez, N. M. Makarov, “Quantum Discretization of Landau Damping”, Low Temperature Physics **44**, 1251-1260 (2018) [Fiz. Nizk. Temp. 44, 1606-1617 (2018)],

doi: 10.1063/1.5078522
ISSN: 1063-777X (Print), 1090-6517 (Online).

112. S. Cortés-López, F. Pérez-Rodríguez, “Nonlocal optical response of a layered high-temperature superconductor slab”, *Low Temperature Physics* **44**, 1272-1279 (2018) [Fiz. Nizk. Temp. 44, 1630-1638 (2018)],
doi: 10.1063/1.5078611
ISSN: 1063-777X (Print), 1090-6517 (Online).
113. S. G. Castillo-López, A. A. Krokhin, N. M. Makarov, and F. Pérez-Rodríguez, “Electrodynamics of superlattices with ultra-thin metal layers: quantum Landau damping and band gaps with nonzero density of states”, *Optical Materials Express* **9**, 673-686 (2019).
<http://dx.doi.org/10.1364/OME.5.000361>
eISSN: 2159-3930.
114. V. Chabanenko, A. Nabiałek, R. Puźniak, O. Kuchuk, O. Chumak, F. Pérez-Rodríguez, U. Pal, V. Garcia-Vazquez, R. Cortés-Maldonado, J. Qian, X. Yao, and H. Szymczak, “Magnetic moment inversion at giant flux jump: dynamical property of critical state in type-II superconductors”, *Scientific Reports* **9**, 6233 (2019).
<https://doi.org/10.1038/s41598-019-42699-5>
eISSN: 2045-2322.
115. A. Konovalenko, J. A. Reyes-Avendaño, A. Méndez-Blas, F. Cervera, E. Myslivets, S. Radic, J. Sánchez-Dehesa, and F. Pérez-Rodríguez, “Nonlocal electrodynamics of homogenized metal-dielectric photonic crystals”, *Journal of Optics* **21**, 085102 (2019).
<https://doi.org/10.1088/2040-8986/ab2a4e>
ISSN: 2040-8978.
116. P. L. Valdés-Negrín, B. Flores-Desirena, M. Toledo-Solano, and F. Pérez-Rodríguez, “Magnetoexciton-photon coupling in a semiconductor quantum microcavity subjected to a parallel electric field”, *AIP Advances* **10**, 065223 (2020).
<https://doi.org/10.1063/5.0011533>
ISSN: 2158-3226.
117. S. Cortés-López, S. L. Gastélum-Acuña, F. J. Flores-Ruiz, V. Garcia-Vazquez, R. García-Llamas, F. Pérez-Rodríguez, “Berreman effect in bimetallic nanolayered metamaterials”, *Optical Materials* **99**, 109578 (2020).
<https://doi.org/10.1016/j.optmat.2019.109578>
ISSN: 0925-3467.
118. S. Cortés-López, F. Pérez-Rodríguez, “Excitation of Josephson plasma waves in a layered high-temperature superconductor slab embedded in a high refractive index dielectric”, *Low Temperature Physics* **46**, 531-537 (2020) [Fiz. Nizk.

- Temp. **46**, 630-637 (2020)].
<https://doi.org/10.1063/10.0001058>
ISSN: 1063-777X (Print), 1090-6517 (Online).
119. C. E. Ávila-Crisóstomo, U. Pal, F. Pérez-Rodríguez, M. G. Shelyapina, A. A. Shmyreva, “Local-field effect on the hybrid ferromagnetic-diamagnetic response of opals with Ni nanoparticles”, Journal of Magnetism and Magnetic Materials, **514**, 167102 (2020),
<https://doi.org/10.1016/j.jmmm.2020.167102>
ISSN: 0304-8853.
120. J. Capistrán-Martínez, D. Loeza-Díaz, D. Mora-Herrera, F. Pérez-Rodríguez, M. Pal, “Theoretical evaluation of emerging Cd-free Cu₃BiS₃ based solar cells using experimental data of chemically deposited Cu₃BiS₃ thin film”, Journal of Alloys and Compounds, **867**, 159156 (2021).
<https://doi.org/10.1016/j.jallcom.2021.159156>
ISSN: 0925-8388.
121. F. Villa-Villa, J. A. Gaspar-Armenta, F. Pérez-Rodríguez, “Homogenization of 1-D Magneto-Photonic Crystals by Using 4 × 4 Characteristic Matrices”, IEEE TRANSACTIONS ON MAGNETICS, **57**, 2300108 (2021).
DOI: 10.1109/TMAG.2020.3049057
ISSN: 0018-9464.

ARTICULOS EN EXTENSO

1. F. Pérez-Rodríguez. “Excitación electromagnética no lineal del sonido en los metales”. Compendio de tesis doctoral editado por la Universidad Estatal de Jarkov “A.M. Gorki”, Jarkov, URSS,(1989), 16 páginas (en ruso).
2. P. Halevi, F. Pérez-Rodríguez. “Estados superficiales de excitones y su manifestación en espectros ópticos”. Memorias del Primer Coloquio de Física de Superficies, CIF-US, Hermosillo, Sonora, (1991), pp. 1-7.
3. L.M. Fisher, I.F. Voloshin, N.M. Makarov, V.A. Yampol’skii, F. Pérez-Rodríguez, E. López-Cruz. “Electromagnetic absorption in high- T_c melt textured samples” en *Applied superconductivity*, Vol. 1, editado por H.C. Freyhardt, (Informationsgesellschaft Verlag, Germany, 1993) pp. 811-814.

4. L.M. Fisher, I.F. Voloshin, N.M. Makarov, V.A. Yampol'skii, F. Pérez-Rodríguez, E. López-Cruz. "Critical state model and electrodynamics of high- T_c superconductors" en *Applied superconductivity*, Vol. 1, editado por H.C. Freyhardt, (Informationsgesellschaft Verlag, Germany, 1993) pp. 815-818.
5. F. Pérez Rodríguez. "Propiedades electromagnéticas no lineales de superconductores de alta temperatura crítica". Memorias de la IV Escuela de Verano en Física: La Visión Molecular de la Materia, Lab. de Cuernavaca, IFUNAM, Cuernavaca, Mor., (1995), pp. 229-234.
6. S.A. Derev'anko, I.O. Lyubimova, O.I. Lyubimov, V.A. Yampol'skii, F. Pérez-Rodríguez, "Nonlinear interaction of the electromagnetic waves irradiating the plate of a hard superconductor from the opposite sides", *Magnetic and Superconducting Materials (MSM-99)* , Vol. A, edited by M. Akhavan, J. Jensen, K. Kitazawa (World Scientific Publishing, Singapore, 2000), pp. 681-688.
7. A. Silva-Castillo, F. Pérez-Rodríguez, "Infrared response of semiconductor superlattices: 45° reflectometry", en *Surface Science and its Applications*, edited by O. de Melo and I. Hernández-Calderón (World Scientific Publishing, Singapore, 2000), pp. 220-222.
8. L.M. Fisher, K.V. Ilyenko, A.V. Kalinov, M.A.R. LeBlanc, F. Pérez-Rodríguez, S.E. Savel'ev, I.F. Voloshin, and V.A. Yampol'skii, "Damping of magnetic moment by swinging magnetic field in hard superconductors". MSMW'2001 Symposium Proceedings, (Institute of Electrical and Electronics Engineers Inc, 2001),pp. 380-382.
ISBN: 0-7803-6473-2
9. N. Atenco-Analco, N.M. Makarov, F. Pérez-Rodríguez, "Effect of surface scattering on excitonic spectrum in quantum wells", Proceedings of the Progress in Electromagnetic Research Symposium (PIERS Proceedings) 2004, Pisa, Italy, pp. 281-284.
ISSN: 1559-9450
10. N. Atenco-Analco, F. Pérez-Rodríguez, N.M. Makarov, "Effect of the surface scattering on spectral and optical properties of excitons in the thin film regime", Memorias del IX Encuentro Regional de Investigación y Enseñanza de la Física 2004, Puebla, Pue., México, (Benemérita Universidad Autónoma de Puebla y Sociedad Mexicana de Física, Puebla, 2005), pp. 63-64.
ISBN: 968-863-885-4
11. R. Márquez-Islas, B. Flores-Desirena, F. Pérez-Rodríguez, "Excitón-polariton en cristales fotónicos unidimensionales", Memorias del XI Encuentro Regional de Investigación y Enseñanza de la Física, IFUAP-FCFM 2006, (Benemérita Universidad Autónoma de Puebla y Sociedad Mexicana de Física, 2007), pp.

44-47.

ISBN: 978-968-9182-31-3.

12. F. Pérez-Rodríguez, F. Díaz-Monge, N. M. Makarov, R. Márquez-Islas, B. Flores-Desirena, "Spatial-dispersion effects in one-dimensional photonic crystals with metallic inclusions", MSMW'07 Symposium Proceedings, Kharkov, Ukraine (Institute of Electrical and Electronics Engineers Inc, 2007), pp. 92-97.
ISBN: 1-4244-1237-4
DOI: 10.1109/MSMW.2007.4294583
13. R. Márquez-Islas, B. Flores-Desirena, F. Pérez-Rodríguez, "Relación de dispersión en un cristal fotónico unidimensional con polarización p y s", Memorias del XII Encuentro Regional de Investigación y Enseñanza de la Física 2007, División Regional Puebla de la SMF, Puebla, México (Benemérita Universidad Autónoma de Puebla y Sociedad Mexicana de Física, 2008), J44 (*6 pages*).
ISBN: 978-607-7541-15-8
14. B. Zenteno-Mateo, B. Flores-Desirena, F. Pérez-Rodríguez, "Parámetros efectivos para cristales fotónicos 1D homogeneizados con inclusiones metalomagnéticas", Memorias del XII Encuentro Regional de Investigación y Enseñanza de la Física 2007, División Regional Puebla de la SMF, Puebla, México, (Benemérita Universidad Autónoma de Puebla y Sociedad Mexicana de Física, 2008), V41 (*4 pages*).
ISBN: 978-607-7541-15-8
15. F. Pérez-Rodríguez, B. Zenteno-Mateo, B. Flores-Desirena, "Effective parameters for metamaterials with magnetic inclusions", NATO Advanced Research Workshop & META'08 Proceedings, Marrakesh, Morocco (2008), pp. 492-500.
16. N. Espinosa-Torres, F. Pérez-Rodríguez, M.G. Hernández-Ordua, J. Tlamani-Amador, J.C. Ruiz-Aguilar, M. Tlapopal-Betancourt, "Estudio físico-químico de desechos industriales en los estados de Puebla-Tlaxcala-Veracruz con la finalidad de reciclaje". Memorias y Trabajos del Symposium 14: Estrategias de vinculación academia-industria, XVIII International Materials Research Congress, Cancún (2009), pp. 39-41.
17. N. M. Makarov, A. Paredes-Juárez, F. Díaz-Monge, F. Pérez-Rodríguez, "Is the Drude-Lorentz model adequate for a metallic slab within terahertz/infrared frequency range?" MSMW'2010 Symposium Proceedings, Kharkov, Ukraine (Institute of Electrical and Electronics Engineers Inc, 2010), W-22 (*3 pages*).
ISBN: 978-1-4244-7898-9.
doi:10.1109/MSMW.2010.5546027
18. E. López-Cruz, J.F. Rivas-Silva y F. Pérez-Rodríguez, "La investigación experimental en laboratorios de uso común", en *PERSPECTIVA DE LOS RETOS:*

INNOVANDO JUNTOS. OBRA COLEGIADA DE LA BENEMÉRITA UNIVERSIDAD AUTÓNOMA DE PUEBLA - III. El cierre de brechas con miras a la consolidación de la investigación y el posgrado en la Benemérita Universidad Autónoma de Puebla, Coordinadora María Verónica del Rosario Hernández Huesca, (BUAP, Puebla, México, 2014) 48-50.
ISBN BUAP, vol. III/VII: 978-607-487-736-6.

19. A. Konovalenko, J. A. Reyes-Avendaño, and F. Pérez-Rodríguez, “Chiral metamaterials based on twisted U-shaped inclusions”, in Latin America Optics and Photonics Conference, OSA Technical Digest (online) (Optical Society of America, 2014), paper LM4A.33.
ISBN: 978-1-55752-825-4
<http://www.opticsinfobase.org/abstract.cfm?URI=LAOP-2014-LM4A.33>
<http://dx.doi.org/10.1364/LAOP.2014.LM4A.33>
20. E. Gutiérrez-Reyes, J. Flores-Méndez, A. L. González, F. Pérez-Rodríguez, “Infrared response of metal-dielectric periodic multilayer stacks”, in VI Taller sobre Metamateriales, Cristales Fotónicos, Cristales Fonónicos y Estructuras Plasmónicas, San Miguel de Allende, 11-14 de Enero, 2015, pp. 47-49.
21. C. E. Ávila-Crisóstomo, E. Sánchez-Mora, F. Pérez-Rodríguez, “Synthesis and modeling of SiO₂ opals with Fe inclusions”, in VI Taller sobre Metamateriales, Cristales Fotónicos, Cristales Fonónicos y Estructuras Plasmónicas, San Miguel de Allende, 11-14 de Enero, 2015, pp. 55,56.
22. V. Chabanenko, E. Zubov, R. Cortés-Maldonado, F. Pérez-Rodríguez, R. Escudero, F. Morales, R. Kochkanjan, A. Zaritovskii, O. Kuchuk, S. Zolotar, A. Nabialek, “Magnetic properties of nanostructured C-Co and C-Ni complexes”, in VI Taller sobre Metamateriales, Cristales Fotónicos, Cristales Fonónicos y Estructuras Plasmónicas, San Miguel de Allende, 11-14 de Enero, 2015, pp. 57-59.
23. V. V. Chabanenko, E. I. Kuchuk, A.E. Philippov, V.F. Rusakov, O.M. Chumak, R. Cortés-Maldonado , F. Pérez-Rodríguez, I. Abal'osheva, A. Nabialek, “Fractal-like structure of magnetic field penetration into superconducting NbTi disc: stochastic jumps of flux bundles and Meissner holes”, in VI Taller sobre Metamateriales, Cristales Fotónicos, Cristales Fonónicos y Estructuras Plasmónicas, San Miguel de Allende, 11-14 de Enero, 2015, pp. 88-90.
24. A. Konovalenko, J. A. Reyes-Avendaño, and F. Pérez-Rodríguez, “Influence of metal conductivity on the chirality of metamaterials with twisted U-shaped resonators”, in VI Taller sobre Metamateriales, Cristales Fotónicos, Cristales Fonónicos y Estructuras Plasmónicas, San Miguel de Allende, 11-14 de Enero, 2015, pp. 111-113.

25. A. Konovalenko, J. A. Reyes-Avendaño, and F. Pérez-Rodríguez, “A Wideband Double-Negative Metamaterial Based on Framed Crosses”, Proceedings of META’15 New York - USA, The 6th International Conference on Metamaterials, Photonic Crystals and Plasmonics, pp. 1468-1469.
ISBN 978-2-9545460-7-0
26. S. Cortés-López, F. Pérez-Rodríguez, “Metamaterial Behavior of Hyperbolic Bimetallic Nanostructures”, Proceedings of META16 Malaga - Spain, The 7th International Conference on Metamaterials, Photonic Crystals and Plasmonics, pp. 467-468 (2016), ISSN 2429-1390.
27. S. Cortés-López, F. Díaz-Monge, F. Pérez-Rodríguez, “Nonlocal effective dielectric response of photonic superlattices”, in Latin America Optics and Photonics Conference (Optical Society of America, 2016), paper LTu4A.45
ISBN: 978-1-943580-16-3
doi:10.1364/LAOP.2016.LTu4A.45
<http://dx.doi.org/10.1364/LAOP.2016.LTu4A.45>