

Producción científica - IFUAP

Libro	Nombre del libro	Año de publicación	Nombre del Autor (es)	Editorial	Registro ISBN
1	Películas de óxido de zinc impurificadas con indio: Física del estado sólido y de semiconductores (Spanish Ed.)	2012	Luis Castañeda Aviña	Académica Española	ISBN-10: 3848475782, ISBN-13: 978-3848475780

Capítulo de libro	Nombre del capítulo	Nombre del libro	Nombre del Autor (es)	Año de publicación	Editorial	ISBN
1	Transparent conducting oxides: selected materials for thin film solar cells	Advances in Materials Science Research (Vol.14)	Luis Castañeda Aviña	2012	Nova Publishers	978-1-61942-937-6
2	Transparent conductors: Invisible materials with high technology applications	Advances in Materials Science Research (Vol. 14)	Luis Castañeda Aviña	2012	Nova Publishers	978-1-61942-937-6
3	Study of scattering and transport statistics of the power-law banded random matrix model	Proceedings of the Joint GISELA-CHAIN Conference	J. A. Méndez Bermúdez, A.J Martínez Mendoza, Fermin Serrano	2012	Consorzio COMETA	978-88-95892-05-4
4	Ion implantation for the fabrication of plasmonic nanocomposites: A Brief Review	Ion Implantation	Umapada Pal and Ovidio Peña Rodríguez	2012	InTech	978-953-51-0634-0
5	Localized surface plasmons of multifaceted metal nanoparticles	Complex-shaped metal nano-particles	Cecilia Noguez y Ana Lilia González	2012	Wiley-Vch	978-3-527-33077-5

Artículo	Nombre del artículo	Año de publicación	Nombre del Autor (es)	Nombre de la revista	Registro ISSN
1	Chemical spray pyrolysis deposited fluorine-doped zinc oxide thin films: Effect of acetic acid content in the starting solution on the physical properties	2012	L. Castañeda, A., Maldonado, J. Rodríguez-Baez, J.C., Cheang-Wong, M. López-Fuentes and M. de la L. Olvera.	Materials Science in Semiconductor Processing	1369-8001
2	Synthesis and characterization of PbSe nanoparticles obtained by a colloidal route using Extran as a surfactant at low temperature	2012	R. Romano-Trujillo, E. Rosendo, M. Ortega, A. Morales-Sánchez, J.M. Gracia, T. Díaz, G. Nieto, G. García, J.A. Luna-López and M. Pacio	Nanotechnology	0957-4484
3	Synthesis and study of optical and photocatalytic properties of Mn and Sm doped ZnS grown by sol gel	2012	Estela Gómez-Barojas, Enrique Sánchez-Mora, Carolina Castillo-Abriz, Esperanza Flores-Rodríguez and Rutilo Silva-González	Journal of Superconductivity and Novel Magnetism	1557-1939

4	Influence of Fe Ions on the Optical Properties of Fe-ZnO Inverse Opals	2012	E. Sánchez Mora, M. Fernández Calendario, E. Gómez Barojas, F. Pérez Rodríguez	Journal of Superconductivity and Novel Magnetism	1557-1939
5	Bulk and surface analysis of $Ti_{1-x}Fe_xO_2/Fe_2O_3$ composites prepared by solid state reaction for photocatalytic applications	2012	M.J. Robles-Águila, M.P. Elizalde-González, M.E. Mendoza, R. Silva-González, H. Yee-Madeira	Surface and Interface Analysis	1096-9918
6	Modulation of the propagation speed of mechanical waves in silicon quantum dots embedded in a silicon-nitride film	2012	C. Torres-Torres, A. López-Suárez, R. Torres-Martínez, A. Rodríguez, J.A. Reyes-Esqueda, L. Castañeda, J.C. Alonso, and A. Oliver	Optics Express	eISSN: 1094-4087
7	Photoconductivity, photoluminescence and optical Kerr nonlinear effects in zinc oxide films containing chromium nanoclusters	2012	C. Torres-Torres, M.L. García-Cruz, L. Castañeda, R. Rangel Rojo, L. Tamayo-Rivera, A. Maldonado, M. Avendaño-Alejo, R. Torres-Martínez	Journal of Luminescence	0022-2313
8	Formation of indium-doped zinc oxide thin films using ultrasonic spray pyrolysis: the importance of the water content in the aerosol solution and the substrate temperature for enhancing electrical transport	2012	Rajesh R. Biswal, Jaime Vega-Pérez, María de la Luz Olvera, Arturo Maldonado, Rosario E. Moctezuma, Luis Castañeda	Materials	1996-1944
9	Study of Morphological and Optical Properties of Porous Silicon	2012	E. Gómez-Barojas, O. López-Hernández, F. Flores-García, J. Tepal-Prisco, R. Silva-González,	Journal of Supercond Nov Magn	
10	Homogenization theory for periodic distributions of elastic cylinders embedded in a viscous fluid	2012	Edgar Reyes-Ayona, Daniel torrent, and José Sánchez-Dehesa	Journal of Acoustical Society of America	0001-4966
11	Tunable resonance transmission modes in hybrid heterostructures based on porous silicon	2012	Karina S Pérez, Octavio Estevez, Antonio Méndez-Blas, Jesús Arriaga, Gabriela Palestino and Miguel E Mora-Ramos	Nanoscale Research Letters	
12	Demonstration of photon Bloch oscillations and Wannier-Stark ladders in dual-periodical multilayer structures based on porous silicon	2012	J. Octavio Estevez, Jesús Arriaga, Antonio Méndez-Blas, Edgar Reyes-Ayona, José Escorcía and Vivechana Agarwal	Nanoscale Research Letters	
13	Band structure of magneto-metallo-dielectric photonic crystals with hybrid one- and two-dimensional periodicity	2012	E. Reyes-Ayona, P. Halevi	Physica Status Solidi (b)	1521-3951
14	Experimental realization of the porous silicon optical multilayers based on the 1-s sequence	2012	J.O. Estevez, J. Arriaga, A. Méndez-Blas, M.G. Robles-Cháirez, and D.A. Contreras Solorio	Journal of Applied Physics	0021-8979
15	Localized defect modes in dual-periodical multilayer structures based on porous silicon	2012	K. Pérez, J.O. Estevez, A. Méndez-Blas, and J. Arriaga	Journal of the Optical Society of America B	0740-3224
16	Exact propagators on the lattice with applications to diffractive effects	2012	E. Sadurní	J. of Physics A: Mathematical and Theoretical	1751-8113
17	A diffractive mechanism of focusing	2012	W.B. Case, E. Sadurní, and W.P. Schleich	Optics Express	

18	From closed to open one-dimensional Anderson model: Transport versus spectral statistics	2012	S. Sorathia, F.M. Izrailev, V.G. Zelevinsky, and G.L. Celardo	Physical Review E	1539-3755
19	Photonic heterostructures with Lévy-type disorder: Statistics of coherent transmission	2012	A.A. Fernández-Marín, J. A. Méndez-Bermúdez, and Víctor. A. Gopar	Physical Review A	1050-2947
20	Multifractal dimensions for critical random matrix ensembles	2012	J.A. Méndez-Bermúdez, A. Alcázar-López and Imre Varga	Europhysics Letters (EPL)	0295-5075
21	Scaling properties of discontinuous maps	2012	J.A. Méndez-Bermúdez and R. Aguilar-Sánchez	Physical Review E	1539-3755
22	Anomalous localisation near the band centre in the 1D Anderson model: Hamiltonian map approach	2012	L. Tessieri, I.F. Herrera-González, F.M. Izrailev	Physica E: Low-dimensional Systems and Nanostructures	1386-9477
23	Chaos and statistical relaxation in quantum systems of interacting particles	2012	J.F. Santos, F. Borgonovi and F.M. Izrailev	Physical Review Letters	0031-9007
24	Onset of chaos and relaxation in isolated systems of interacting spins: Energy Shell approach	2012	L.F. Santos, F. Borgonovi, F.M. Izrailev	Physical Review E	1539-3755
25	Non-conventional Anderson localization in bilayered structures	2012	E.J. Torres-Herrera, F.M. Izrailev and N.M. Makarov	Europhysics Letters (EPL)	0295-5075
26	Anomalous localization in low-dimensional systems with correlated disorder	2012	F.M. Izrailev, A.A. Krokhin, N.M. Makarov	Physics Reports	0370-1573
27	Decoherence at constant excitation	2012	Juan Mauricio Torres, Emerson Sadurní and Thomas Seligman	Physica Scripta	1402-4896
28	Nearest level spacing statistics in open chaotic systems: Generalization of the Wigner Surmise	2012	Charles Poli, Germán A. Luna Acosta and, Hans-Jürgen Stöckmann	Physical Review Letters	0031-9007
29	Unidirectional two-dimensional periodic waveguides	2012	A. Alcázar-López, J.A. Méndez-Bermúdez and G.A. Luna-Acosta	Rev.Mexicana de Física S	0035-00IX
30	Phase space evolution and discontinuous Schroedinger Waves	2012	E. Sadurní	J. of Physics: Conference Series	1742-6596
31	Crystallization induced porosity control and photocatalytic activity of ordered mesoporous TiO ₂	2012	Chang Woo Kim, Umapada Pal, Sangji Park, Young Hwan Kim, Jinheung Kim and Young Soo Kang	The Royal Society of Chemistry Advance	2046-2069
32	Morphology evolution of hydrothermally grown ZnO nanostructures on gallium doping and their defect structures	2012	Guadalupe Pineda-Hernández, Alejandro Escobedo-Morales, Umapada Pal, and Ernesto Chigo-Anota	Materials Chemistry and Physics	0254-0584
33	Photoluminescence (PL) quenching and enhanced photocatalytic activity of Au-decorated ZnO nanorods fabricated through microwave-assisted chemical synthesis	2012	Ma. de Lourdes Ruiz Peralta, U. Pal, and R. Sánchez Zeferino	Applied Materials & Interfaces	
34	Phase transition in multiferroic YMnO ₃ and its solid solution YMn _(0.93) Fe _(0.07) O ₃	2012	U. Salazar-Kuri, M.E. Mendoza, J.M Siqueiros	Physica B	0921-4526
35	Esfuerzo de cedencia en fluidos magneto-reológicos bajo perturbaciones	2012	F. Donado, E. López-Molina, J.L. Carrillo	Revista Mexicana de Física S	0035-00IX

36	Gram-scale synthesis of highly crystalline, 0-D and 1-D SnO ₂ nanostructures through surfactant-free hydrothermal process	2012	Umapada Pal, Mou Pal, Raúl Sánchez Zeferino	Journal of Nanoparticle Research	2193-9772
37	Bulk and surface analysis of Ti _{1-x} Fe _x O ₂ /Fe ₂ O ₃ composites prepared by solid state reaction for photocatalytic applications	2012	M.J. Robles-Águila, M.P. Elizalde-González, M.E. Mendoza, R. Silva-González, H. Yee-Madeira	Surface and Interface Analysis	1096-9918
38	Electron scattering by ferroelectric 2D arrays of quantum dots	2012	R.E. Moctezuma, J.L. Carrillo	Ferroelectrics	0015-0193
39	Evolution of the complexity of the domain structure in boracites	2012	R.E. Moctezuma, J.L. Carrillo and M.E. Mendoza	Rev. Mexicana de Física (S)	0035-001X
40	Structure and physical properties of magneto-rheological slurries under perturbation	2012	E.M. de la Calleja, J.L. Carrillo and F. Donado	Rev. Mexicana de Física (S)	0035-001X
41	Biodiesel from Jatropha curcas oil using Zn for esterification step and solar radiation as energy source	2012	Grisel Corro, Nallely Tellez, Fortino Bañuelos, María Eugenia Mendoza	Fuel	0016-2361
42	Hydrothermally grown ultra-fine SnO ₂ and SnO ₂ :Ag nanoparticles and their optical characteristics	2012	E. Sánchez-Zeferino, U. Pal, M. Barboza-Flores, P. Santiago, L. Rendón, and V. Garibay Febles	Science of Advanced Materials	1947-2935
43	Synthesis of monodispersed red emitting LiAl ₅ O ₈ :Fe ³⁺ nanophosphors	2012	Abhijit P. Jadhav, Amol Pawar, U. Pal, Byung Kyu Kim and Young Soo Kang	Science of Advanced Materials	1947-2935
44	2D radial distribution function of silicene	2012	M.R. Chávez- Castillo, M. A. Rodríguez-Meza, L. Meza-Montes	Revista Mexicana de Física	0035-001X
45	Morphology defined ZnO nanostructures through microwave assisted chemical synthesis: Growth mechanism, defect structure, and emission behaviours	2012	Ma. De Lourdes Ruiz Peralta, J. García Serrano, U. Pal	Advanced Science Letters	1936-6612
46	Effects of crystallization and dopant concentration on the emission behavior of TiO ₂ :Eu nanophosphors	2012	M. Pal, U. Pal, J.M. Gracia, and F. Pérez-Rodríguez	Nanoscale Research Letters	1556-276X
47	Cohesive motion in one-dimensional flocking	2012	Victor Dossetti	Journal of Physics A: Math. and Theoretical	1751-8113
48	Blue and red dual emission nanophosphor CaMgSi ₂ O ₆ :Eu ⁿ⁺ ; crystal structure and electronic configuration	2012	A.U. Pawar, Abhijit P. Jadhav, U. Pal, Byung Kyu Kim, Young Soo Kang	Journal of Luminescence	0022-2313
49	Metamagnetism and weak ferromagnetism in nickel (II) oxalate crystals	2012	E. Romero-Tela, M.E. Mendoza and R. Escudero	Journal of Physics: Condensed Matter	0953-8984
50	Concentration and temperature effect on Controlling pore size and surface area of mesoporous titania by using template of F-68 and F-127 Co-Polymer in the sol-gel process	2012	Nitin A. Jadhav, Chang Woo Kim, Umapada Pal, and Yang Soo Kang	Journal of Nanoscience and Nanotechnology	

51	Uranyl complexes formed with a para-t-butylcalix[4]arene bearing phosphinoyl pendant arms on the lower rim. Solid and solution studies	2012	F. de M. Ramírez, S. Varbanov, J.-C. Bünzli, J.F. Rivas-Silva, M.A. Ocaña-Bribiesca, M.A. Cortés-Jácome and J.A. Toledo-Antonio	Radiochim. Acta	0033-8230
52	Interfacial and coexistence properties of soft spheres with a short-range attractive Yukawa fluid: Molecular dynamics simulations	2012	M. González-Melchor, G. Hernández Coccoletzi, J. López-Lemus, A. Ortega-Rodríguez, P. Orea	Journal of Chemical Physics	0021-9606
53	On the centre of mass velocity in molecular dynamics simulations	2012	Gloria Arlette Méndez-Maldonado, Minerva González-Melchor, José Alejandre, Gustavo A. Chapela	Revista Mexicana de Física	0035-001X
54	Ab-initio studies of the adsorption of a B ad-atom on GaN surfaces	2012	L. Palomino-Rojas, Reyes García-Díaz, Gregorio H. Coccoletzi, and Noboru Takeuchi	Journal of Crystal Growth	0022-0248
55	Analytical Static Structure factors for the restricted primitive model	2012	G.A. Méndez Maldonado, H. Ruiz Estrada, M. González Melchor, J.F. Rivas Silva, J. Nieto Frausto	Physica A: Statistical Mechanics and its Applications	0378-4371
56	Franck-Condon factors for diatomic molecules for an arbitrary anharmonic potential	2012	I. Urdaneta, Lourdes Sandoval, Alejandro Palma	Journal of Molecular Spectroscopy	0972-0871
57	Variational approach to the confined hydrogen atom with a moving nucleus	2012	F. M. Fernández, N. Aquino and A. Flores-Riveros	International Journal of Quantum Chemistry	0021-9606
58	Influence of point defects on the electronic properties of boron nitride nanosheets	2012	E. Chigo Anota, R.E. Ramírez Gutiérrez, A. Escobedo Morales, Gregorio H.Coccoletzi	Journal of Molecular Modeling	1610-2940
59	DFT studies of the phenol adsorption on boron nitride sheets	2012	José Mario Galicia Hdz., Gregorio Hernández Coccoletzi and Ernesto Chigo Anota	Journal of Molecular Modeling	1610-2940
60	Theoretical study of the formation of a GaAs bilayer on Si(111)	2012	Alfredo Ramirez Torres, Gregorio Hernandez Coccoletzi, Raul Alfonso Vazquez Nava, Mirna Lopez Fuentes, and Noboru Takeuchi	Computational Materials Science	
61	First principles calculations of the Sc adsorption on Si(001)-c(2x4)	2012	Maria Teresa Romero, Gregorio Hernandez Coccoletzi, and Noboru Takeuchi	Surface science	
62	First principles studies of the graphene-phenol interactions	2012	Jose Mario Galicia Hernandez, Maria Teresa Romero de la Cruz, Minerva Gonzalez Melchor, and Gregorio Hernandez Coccoletzi	Journal of Molecular Modeling	1610-2940
63	Electron-phonon interaction and superconductivity in Tl-Pb-Bi alloys from first principles: Importance of spin-orbit coupling	2012	O. De la Peña-Seaman, R. Heid, and K.-P. Bohnen	Physical Review B	1098-0121
64	First principles study of phonon properties in magnetic double-layer manganites	2012	O. De la Peña-Seaman, R. Heid, and K.-P. Bohnen	Physical Review B	1098-0121

65	Quantized longitudinal exciton-polaritons in periodic metal-semiconductor nanostructures	2012	R. Márquez-Islas, B. Flores-Desirena, F. Pérez-Rodríguez	Photonics and Nanostructures-Fundamentals and Appls.	1569-4410
66	Synthesis and study of optical and photocatalytic properties of Mn and Sm doped ZnS grown by sol gel	2012	Estela Gómez-Barojas, Enrique Sánchez-Mora, Carolina Castillo-Abriz, Esperanza Flores-Rodríguez and Rutilo Silva-González	Journal of Superconductivity and Novel Magnetism	1557-1939
67	Self-organization approach for THz polaritonic metamaterials	2012	A. Reyes-Coronado, M.F. Acosta, R.I. Merino, V.M. Orera, G. Kenanakis, N. Katsarakis, Ch. Mavidis, J. García de Abajo, E.N. Economou, C.M. Soukoulis	Optics Express	1094-4087
68	The interplay among electric, magnetic, and structural properties in the non-superconducting Ru ($\text{Sr}_{2-x}\text{Ba}_x$) $\text{Gd Cu}_2\text{O}_{8\pm z}$ system	2012	M. Abatal, V. García-Vázquez, E. Chavira, E. González and A. Tejada	Journal of Low Temperature Physics	0022-2291
69	Study on the structural, electrical and magnetic properties of the Ru ($\text{Sr}_{2-x}\text{Ba}_x$) $\text{Gd Cu}_2\text{O}_{8\pm z}$ system	2012	M. Abatal, V. García-Vázquez, E. Chavira, E. González and A. Tejada	IEEE Transactions on Magnetism	1051-8223
70	Plasmonic excitation and manipulation with an electron beam	2012	Ernst Jan R. Vesseur, Javier Aizpurua, Toon Coenen, Alejandro Reyes-Coronado, Philip E. Batson, and Albert Polman.	Material Research Bulletin	0883-7694

Ponencia	Nombre de la ponencia	Año de exposición	Nombre del Ponente	Nombre del evento donde se presentó la ponencia
1	Onset of Chaos and Thermalization in Isolated Quantum Systems of interacting particles	ago-12	Dr. Felix Izrailev	Dynamics and Thernodynamics in isolated quantum systems
2	Superradiance transition in photosynt	ago-12	Dr. German Luna Acosta	Dynamics and Thernodynamics in isolated quantum
3	Estancia de colaboración	ago-12	Mtro. Andrei Jesús Martínez Mendoza	Budapest University Of Technology and Economics
4	Fisicoquímica de superficies, con aplicaciones en espuma y emulaciones	nov-12	Dr. Dminique Langevin	4ta Reunión de la Red Temática de Materiales Complejos y Nanoestruc-turados del IFUAP
5	Nuevas Propiedades de materiales de carbono de baja dimensionalidad	nov-12	Dr. Pilar López Sancho	4ta Reunión de la Red Temática de Materiales Complejos y Nanoestruc-turados del IFUAP
6	Dye-sensitized solar cell	nov-12	Dr. Greco Oskam	4ta Reunión de la Red Temática de Materiales
7	Quantum plasmon resonances in metallic nanoparticles and dimers	nov-12	Dra. Angela Camacho	4ta Reunión de la Red Temática de Materiales Complejos y Nanoestruc-turados del IFUAP
8	Los Ferroeléctricos a la luz de la radiación sincrotronicas	nov-12	Dr. Luis Fuentes Cobas	4ta Reunión de la Red Temática de Materiales Complejos y Nanoestruc-turados del IFUAP
9	Making a NESS out of equilibrium	nov-12	Dr. Hernán Larralde	4ta Reunión de la Red Temática de Materiales Complejos y Nanoestruc-turados del IFUAP
10	Caracterización óptica de nanopartículas de CdSe:Cu	Febrero y Marzo 2012	Mario Arturo Martínez Cruz	III Congreso Nacional de Ciencias e Ingenierias en Materiales
11	Optical and Structural Characterization of Li-doped Cds Nanoparticles	nov-12	Ugaliel Sandoval Flores	Fall Meeting of the Materials Research Society
12	2012 Spring Meeting	abr-12	Dra. Estela Gomez Baroja	2012 Spring Meeting
13	Innovacion in Strongly Correlated Electronic Systems School and Workshop	jun-12	Raul Cortes Maldonado	International Center for Theoretical Physics
14	Estancia de colaboración	ago-12	DR. E.J. DOEDEL	Concordia University Montreal, Canada
15	Estancia de colaboración	feb-12	Dr. Raúl Alfonso Vasquez	Centro de Investigaciones en Óptica
16	Estancia de colaboración	feb-12	Dr. Gabriel Canto	Universidad Autónoma de Campeche
17	Estancia de colaboración	feb-12	Dra. Ma.Teresa Romero de la Cruz	Facultad de Ciencias Físico Matemáticas, UA de Colima
18	Estancia de colaboración	mar-12	Dra. Ines Urdaneta Santos	Universidad Autónoma Metropolitana
19	Ciencia para todos	oct-12	Dra. Dolores García Toral	Faculta de Físico Matematicas BUAP
20	El Enfoque Algebraico a Hamiltonianos con Dependencias Temporal	dic-12	Dr. Alejandro Palma	QUITEL MEXICO 2011
21	Estancia de colaboración	feb-12	Dr. Raúl Alfonso Vasquez	Centro de Investigaciones en Óptica
22	Metallic Plutonium: Does it have a Subsystem of f-electrons Forming a VBS (Valence-Bond Sate) in the Ground state	ago-12	Dr. Juan Francisco Rivas Silva	XXI INTERNATIONAL MATERIAL RESEARCH CONGRESS
23	Las Matematicas de la las moléculas y los balones de futbol	mar-12	Dr. José Antonio de la Peña	Jornadas de Divulgación de la Ciencia - IFUAP

24	First principles study of the spin-orbit coupling effect on the TI-Pb superconducting ally	feb-12	Dr. Omar de la Peña Seaman	APS March Meeting 2012
25	Shannon and Fisher entropies for the spherically confined hydrogen atom in soft and hard cavities	nov-12	Dr. Antonio Flores Riveros	XI Reunión Mexicana de Físicoquímica Teórica
26	Estancia de colaboración	dic-12	Dr. Manuel Berrondo	Universidad de UTAH, USA
27	Estancia de colaboración	dic-12	Dr. Norberto Aquino	UAM
28	Estancia de colaboración	dic-12	Dra. Carmen Domene	King's College London UK
29	Preparation and Characterization of Electrodeposited CuInSe Thin Films on Flexible Substrates for Solar Cell Application	jun-12	Dra. Estela Calixto	38th IEEE Photovoltaic Specialist Conference
30	Metafluid with anisotropic mass dynamic	sep-12	Dr. Jesus Arriaga	Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales
31	Metafluidos con masa dinamica anisotropica	oct-12	Dr. Jesus Arriaga	LV Congreso Nacional de Física
32	Porous Semiconductors-Science and Technology PSST-2012	mar-12	Mtra. Karina Sandra Pérez Aguilar	Porous Semiconductors-Science and Technology PSST-2012
33	Estancia de colaboración	abr-12	Mtra. Zorayda Lozano	Department of Physics Bath United Kingdom
34	Matematerials, Photonic Crystals	feb-12	Dr. Felipe Pérez	META'12 INPARIS
35	Síntesis Controlada del Tamaño y Morfología de Nanoestructuras	jun-12	Dr. Anatoliy Konovalenko	NANOMEX'12