



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



LUIS ANTONIO PEREZ LOPEZ

Datos Generales

Nombre: LUIS ANTONIO PEREZ LOPEZ

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 24 años

Nombramientos

Vigente: INVESTIGADOR TITULAR C TC Definitivo
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Desde 16-02-2019

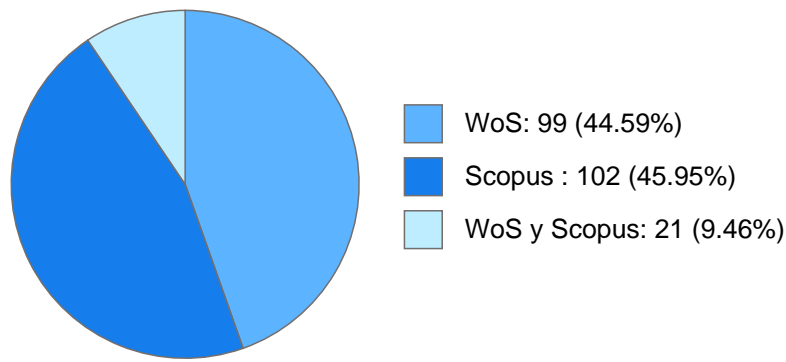
Estímulos, programas, premios y reconocimientos

SNI III 2021 - VIGENTE
SNI II 2009 - 2020
SNI I 2008
PRIDE D 2018 - 2024
PRIDE C - 2018

LUIS ANTONIO PEREZ LOPEZ

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Volatile biomarker detection using metal-decorated silicon nanowires for environmental and biomedical applications: A DFT study	IVONNE JUDITH HERNANDEZ HERNANDEZ LUIS ANTONIO PEREZ LOPEZ Santana J.E.	APPLIED SURFACE SCIENCE	2025
2	Doped diamond nanowires for NO and NO ₂ adsorption and sensing: A DFT investigation	LUIS ANTONIO PEREZ LOPEZ Cid B.J. Santana J.E. et al.	DIAMOND AND RELATED MATERIALS	2025
3	A comparative DFT study of CO and NO capture by copper- and titanium-functionalized SiC and GeC monolayers	IVONNE JUDITH HERNANDEZ HERNANDEZ FRANCISCO DE SANTIAGO VARELA ALMA LORENA MARCOS VIQUEZ et al.	MATERIALS LETTERS	2024
4	Urea adsorption and detection using silicon nanowires doped with B, Al, C, Ge, N, and P: A DFT investigation	IVONNE JUDITH HERNANDEZ HERNANDEZ LUIS ANTONIO PEREZ LOPEZ Santana J.E. et al.	PHYSICA B-CONDENSED MATTER	2024
5	DFT insight into the structural, vibrational, and electronic properties of thin [110] Ge nanowires as anodic material for Li batteries	ALVARO MIRANDA DURAN FERNANDO SALAZAR POSADAS LUIS ANTONIO PEREZ LOPEZ et al.	Materials Today Communications	2024
6	Highly sensitive amphetamine drug detection based on silicon nanowires: Theoretical investigation	LUIS ANTONIO PEREZ LOPEZ Santana J.E. Sosa A.N. et al.	Surfaces And Interfaces	2023

LUIS ANTONIO PEREZ LOPEZ

7	Theoretical study of [111]-germanium nanowires as anode materials in rechargeable batteries: a density functional theory approach	IVONNE JUDITH HERNANDEZ HERNANDEZ LUIS ANTONIO PEREZ LOPEZ Jiménez-Sánchez R. et al.	REVISTA MEXICANA DE FISICA	2023
8	DFT investigation of metal-decorated silicon carbide nanosheets for the adsorption of NH ₃	LUIS ANTONIO PEREZ LOPEZ Arellano L.G. Cid B.J. et al.	Materials Today Communications	2023
9	Hydrogen storage on tin carbide monolayers with transition metal adatoms	ALMA LORENA MARCOS VIQUEZ FRANCISCO DE SANTIAGO VARELA ALVARO MIRANDA DURAN et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2023
10	Metal-decorated siligene as work function type sensor for NH ₃ detection: A DFT approach	LUIS ANTONIO PEREZ LOPEZ Cid B.J. Santana J.E. et al.	APPLIED SURFACE SCIENCE	2023
11	Exploring the electronic and mechanical properties of lithium-decorated silicon carbide nanowires for energy storage	MARIA DEL ROCIO NAVA LARA LUIS ANTONIO PEREZ LOPEZ Gonzalez M. et al.	Journal of Energy Storage	2023
12	Enhanced reversible hydrogen storage performance of light metal-decorated boron-doped siligene: A DFT study	ALVARO MIRANDA DURAN LUIS ANTONIO PEREZ LOPEZ MIGUEL CRUZ IRISSON et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2022
13	Tin carbide monolayers decorated with alkali metal atoms for hydrogen storage	ALMA LORENA MARCOS VIQUEZ MIGUEL CRUZ IRISSON LUIS ANTONIO PEREZ LOPEZ et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2022
14	Transition metal-decorated germanene for NO, N ₂ and O ₂ sensing: A DFT study	LUIS ANTONIO PEREZ LOPEZ Sosa A.N. Santana J.E. et al.	Surfaces And Interfaces	2022
15	NH ₃ capture and detection by metal-decorated germanene: a DFT study	ALVARO MIRANDA DURAN LUIS ANTONIO PEREZ LOPEZ TAMARA ALICIA TREJO BECERRIL et al.	JOURNAL OF MATERIALS SCIENCE	2022
16	Adsorption of diatomic gas molecules on transition-metal-decorated GeC monolayers	ALMA LORENA MARCOS VIQUEZ ALVARO MIRANDA DURAN MIGUEL CRUZ IRISSON et al.	JOURNAL OF MATERIALS SCIENCE	2022
17	Critical Current Density in d-Wave Hubbard Superconductors	LUIS ANTONIO PEREZ LOPEZ Millán J.S. Millán J. et al.	Materials	2022
18	Tunable electronic properties of silicon nanowires as sodium-battery anodes	LUIS ANTONIO PEREZ LOPEZ Arellano L.G. Salazar F. et al.	INTERNATIONAL JOURNAL OF ENERGY RESEARCH	2022

LUIS ANTONIO PEREZ LOPEZ

19	Alkali and transition metal atom-functionalized germanene for hydrogen storage: A DFT investigation	TAMARA ALICIA TREJO BECERRIL LUIS ANTONIO PEREZ LOPEZ MIGUEL CRUZ IRISSON et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2021
20	Hydrogen storage capacities of alkali and alkaline-earth metal atoms on SiC monolayer: A first-principles study	ALVARO MIRANDA DURAN LUIS ANTONIO PEREZ LOPEZ MIGUEL CRUZ IRISSON et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2021
21	Silicon nanowires as acetone-adsorptive media for diabetes diagnosis	LUIS ANTONIO PEREZ LOPEZ De Santiago F. Santana J.E. et al.	APPLIED SURFACE SCIENCE	2021
22	Molecular oxygen dissociation on tin carbide monolayers with gold adatoms	ALVARO MIRANDA DURAN MIGUEL CRUZ IRISSON LUIS ANTONIO PEREZ LOPEZ et al.	MATERIALS LETTERS	2021
23	A comparison of optimal doping behaviors between d- and s*- wave superconducting ground states	LUIS ANTONIO PEREZ LOPEZ B. Millan I. J. Hernandez-Hernandez et al.	REVISTA MEXICANA DE FISICA	2021
24	Tin carbide monolayers as potential gas sensors	ALVARO MIRANDA DURAN LUIS ANTONIO PEREZ LOPEZ Marcos-Viquez A.L. et al.	MATERIALS LETTERS	2021
25	Hydrogen storage on metal decorated pristine siligene and metal decorated boron-doped siligene	ALVARO MIRANDA DURAN LUIS ANTONIO PEREZ LOPEZ Cid B.J. et al.	MATERIALS LETTERS	2021
26	Fluorinated porous silicon as sensor material for environmentally toxic gases: a first-principles study	ALVARO MIRANDA DURAN LUIS ANTONIO PEREZ LOPEZ MIGUEL CRUZ IRISSON et al.	Materials Advances	2021
27	Adsorption of urea on metal-functionalized Si nanowires for a potential uremia diagnosis: A DFT study	ALVARO MIRANDA DURAN LUIS ANTONIO PEREZ LOPEZ Santana J.E. et al.	MATERIALS LETTERS	2021
28	Gas adsorption enhancement on transition-metal-decorated tin carbide monolayers	ALMA LORENA MARCOS VIQUEZ ALVARO MIRANDA DURAN LUIS ANTONIO PEREZ LOPEZ et al.	MATERIALS LETTERS	2021
29	CO and CO ₂ adsorption performance of transition metal-functionalized germanene	ALVARO MIRANDA DURAN LUIS ANTONIO PEREZ LOPEZ Sosa A.N. et al.	MATERIALS LETTERS	2021
30	Hydrogen storage on bidimensional GeC with transition metal adatoms	ALVARO MIRANDA DURAN LUIS ANTONIO PEREZ LOPEZ Arellano L.G. et al.	MATERIALS LETTERS	2021
31	Light metal functionalized two-dimensional siligene for high capacity hydrogen storage: DFT study	ALVARO MIRANDA DURAN LUIS ANTONIO PEREZ LOPEZ TAMARA ALICIA TREJO BECERRIL et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2021

LUIS ANTONIO PEREZ LOPEZ

32	Ab initio study of hydrogen storage on metal-decorated GeC monolayers	FRANCISCO DE SANTIAGO SILVA ALVARO MIRANDA DURAN LUIS ANTONIO PEREZ LOPEZ et al.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	2021
33	Optimal electronic doping in p-wave superconductors	LUIS ANTONIO PEREZ LOPEZ B. Millan I. J. Hernandez-Hernandez et al.	REVISTA MEXICANA DE FISICA	2021
34	Mechanical and Electronic Properties of Tin Carbide Nanowires	LUIS ANTONIO PEREZ LOPEZ Marcos-Viquez A.L. Miranda Á. et al.	PHYSICA STATUS SOLIDI A-APPLICATION S AND MATERIALS SCIENCE	2020
35	Electronic properties of [111] hydrogen passivated Ge nanowires with surface substitutional lithium	LUIS ANTONIO PEREZ LOPEZ Arellano L.G. Salazar F. et al.	IOP Conference Series-Material s Science and Engineering	2020
36	Quasi-one-dimensional silicon nanostructures for gas molecule adsorption: a DFT investigation	LUIS ANTONIO PEREZ LOPEZ Francisco de Santiago Jose Eduardo Santana et al.	APPLIED SURFACE SCIENCE	2019
37	Lithiation effects on the structural and electronic properties of Si nanowires as a potential anode material	LUIS ANTONIO PEREZ LOPEZ De Santiago F. González J.E. et al.	Energy Storage Materials	2019
38	Interstitial sodium and lithium doping effects on the electronic and mechanical properties of silicon nanowires: a DFT study	LUIS ANTONIO PEREZ LOPEZ Salazar F. Trejo-Baños A. et al.	JOURNAL OF MOLECULAR MODELING	2019
39	A Bogoliubov-de Gennes study of d-wave Hubbard superconductors under magnetic field	CESAR GABRIEL GALVAN PEÑA LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN	PHYSICA B-CONDENSED MATTER	2019
40	Quantum confinement effects on the harmful-gas-sensing properties of silicon nanowires	ELIEL CARVAJAL QUIROZ LUIS ANTONIO PEREZ LOPEZ Francisco de Santiago et al.	INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY	2018
41	First principles band gap engineering of [110] oriented 3C-SiC nanowires	LUIS ANTONIO PEREZ LOPEZ Cuevas, Jose Luis De Santiago, Francisco et al.	COMPUTATIONA L MATERIALS SCIENCE	2018
42	Lithium effects on the mechanical and electronic properties of germanium nanowires	LUIS ANTONIO PEREZ LOPEZ A. Gonzalez-Macias F. Salazar et al.	Nanotechnolog y	2018
43	Molecular oxygen adsorption and dissociation on Au ₁₂ M clusters with M = Cu, Ag or Ir	LAURA MICHELLE JIMENEZ DIAZ LUIS ANTONIO PEREZ LOPEZ	EUROPEAN PHYSICAL JOURNAL D	2018

LUIS ANTONIO PEREZ LOPEZ

44	Carbon monoxide sensing properties of B-, Al- and Ga-doped Si nanowires	LUIS ANTONIO PEREZ LOPEZ F. de Santiago A. Trejo et al.	Nanotechnology	2018
45	Optimal doping for d-wave superconducting ground states within the generalized Hubbard model	LUIS ANTONIO PEREZ LOPEZ B. Millan J. Samuel Millan	REVISTA MEXICANA DE FISICA	2018
46	Theoretical study of the mechanical and electronic properties of [111]-Si nanowires with interstitial lithium	LUIS ANTONIO PEREZ LOPEZ A. Gonzalez-Macias F. Salazar et al.	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2018
47	Silicon nanowires as potential gas sensors: A density functional study	LUIS ANTONIO PEREZ LOPEZ Miranda, A. de Santiago, F. et al.	SENSORS AND ACTUATORS B-CHEMICAL	2017
48	Molecular dynamics approach for crystal structures of methane A and B	LUIS ANTONIO PEREZ LOPEZ Galvan, Cesar G. Cabrera-Trujillo, Jose M. et al.	INTERNATIONAL JOURNAL OF MODERN PHYSICS C	2017
49	Electronic properties of fluorinated silicon carbide nanowires	LUIS ANTONIO PEREZ LOPEZ Miranda, A.	COMPUTATIONAL MATERIALS SCIENCE	2016
50	Vortices in Hubbard Superconductors: A Bogoliubov-de Gennes Approach	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Galvan, Cesar G.	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM	2016
51	Effects of surface passivation by lithium on the mechanical and electronic properties of silicon nanowires	LUIS ANTONIO PEREZ LOPEZ Salazar, F. Cruz-Irisson, M.	SOLID STATE COMMUNICATIONS	2016
52	Effects of Non-Uniform Occupancy on Selective Transport Through Nanochannels	HEINRICH FIDENCIO TERBORG DEL ROSAL LUIS ANTONIO PEREZ LOPEZ	JOURNAL OF STATISTICAL PHYSICS	2015
53	Application of Bogoliubov-de gennes equations to vortices in Hubbard superconductors	CHUMIN WANG CHEN CESAR GABRIEL GALVAN PEÑA LUIS ANTONIO PEREZ LOPEZ	Materials Research Society Symposium Proceedings	2015
54	First-Brillouin-zone integration areas for anisotropic superconducting states	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millan J.S. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2014
55	ARPES-parameterized Hubbard approach to d-wave cuprate superconductors	LUIS ANTONIO PEREZ LOPEZ CESAR GABRIEL GALVAN PEÑA CHUMIN WANG CHEN	AIP Conference Proceedings	2014

LUIS ANTONIO PEREZ LOPEZ

56	Controlling stability and electronic properties of small-diameter SiC nanowires by fluorination	Alvaro Miranda Miguel Cruzlrisson LUIS ANTONIO PEREZ LOPEZ	INTERNATIONAL JOURNAL OF NANOTECHNOL OGY	2014
57	Electronic structure and optical vibrational modes of 3C-SiC nanowires	Alvaro Miranda LUIS ANTONIO PEREZ LOPEZ Miguel Cruzlrisson et al.	INTERNATIONAL JOURNAL OF NANOTECHNOL OGY	2014
58	Chiral and non-chiral p-wave superconducting states from correlated hopping interactions	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millan, J. S.	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	2014
59	Sputtering of the target surface by Cs+ ions: Steady-state concentration of implanted cesium and emission of CsM+ cluster ions	MARIA MANSUROVA LUIS ANTONIO PEREZ LOPEZ Kudriavtsev, Yu. et al.	TECHNICAL PHYSICS	2013
60	Ionization potential and ion yield of CsM clusters sputtered from Si	MARIA MANSUROVA LUIS ANTONIO PEREZ LOPEZ Kudriavtsev, Yu. et al.	SURFACE AND INTERFACE ANALYSIS	2013
61	Vibrational spectrum, caloric curve, low-temperature heat capacity, and debye temperature of sodium clusters: The Na139+ case	Huziel E. Saucedo JOSE DE JESUS PELAYO CARDENAS LUIS ANTONIO PEREZ LOPEZ et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2013
62	Size and shape dependence of the vibrational spectrum and low-temperature specific heat of au nanoparticles	Huziel E. Saucedo LUIS ANTONIO PEREZ LOPEZ IGNACIO LUIS GARZON SOSA et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2013
63	d-Wave superconductivity from correlated-hopping interactions determined by angle-resolved photoemission spectroscopy	CESAR GABRIEL GALVAN PEÑA LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN	PHYSICS LETTERS A	2012
64	MINIMAL TRAFFIC MODEL WITH SAFE DRIVING CONDITIONS	HEINRICH FIDENCIO TERBORG DEL ROSAL LUIS ANTONIO PEREZ LOPEZ	INTERNATIONAL JOURNAL OF MODERN PHYSICS C	2012
65	Theoretical study of electronic and mechanical properties of GeC nanowires	F. Salazar LUIS ANTONIO PEREZ LOPEZ	COMPUTATIONA L MATERIALS SCIENCE	2012
66	AXELROD MODEL OF SOCIAL INFLUENCE WITH CULTURAL HYBRIDIZATION	ALEJANDRO RADILLO DIAZ LUIS ANTONIO PEREZ LOPEZ MARCELO DEL CASTILLO MUSSOT	INTERNATIONAL JOURNAL OF MODERN PHYSICS C	2012

LUIS ANTONIO PEREZ LOPEZ

67	BCS-Hubbard model applied to anisotropic superconductors	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millan, J. S.	PHYSICA C-SUPERCONDU CTIVITY AND ITS APPLICATIONS	2011
68	ISSPIC XV - 15th international symposium on small particles and inorganic clusters	IGNACIO LUIS GARZON SOSA LUIS ANTONIO PEREZ LOPEZ GABRIELA ALICIA DIAZ GUERRERO et al.	EUROPEAN PHYSICAL JOURNAL D	2011
69	Magnetic-field influence on anisotropic p- and d-wave superconductivity	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millan, J. Samuel	JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA	2010
70	SPIN SINGLET AND TRIPLET SUPERCONDUCTIVITY INDUCED BY CORRELATED HOPPING INTERACTIONS	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millan, J. Samuel	INTERNATIONAL JOURNAL OF MODERN PHYSICS B	2010
71	Density functional study of the cysteine adsorption on Au nanoclusters	LUIS ANTONIO PEREZ LOPEZ X. Lopez Lozano IGNACIO LUIS GARZON SOSA	EUROPEAN PHYSICAL JOURNAL D	2009
72	Structural and electronic properties of PtPd and PtNi nanoalloys	ALEJANDRO RADILLO DIAZ YAXK' IN U KAN CORONADO GONZALEZ LUIS ANTONIO PEREZ LOPEZ et al.	EUROPEAN PHYSICAL JOURNAL D	2009
73	Axelrod models of social influence with cultural repulsion	ALEJANDRO RADILLO DIAZ LUIS ANTONIO PEREZ LOPEZ MARCELO DEL CASTILLO MUSSOT	PHYSICAL REVIEW E	2009
74	Intrinsic chirality in gold nanoclusters	LUIS ANTONIO PEREZ LOPEZ	Abstracts Of Papers Of The American Chemical Society	2009
75	Structural, electronic, and thermal properties of aluminum nanoclusters	MARIA MANSUROVA LAURA MICHELLE JIMENEZ DIAZ ITZEL ERANDENI SANTIZO HUERTA et al.	Abstracts Of Papers Of The American Chemical Society	2009
76	DFT study of the cysteine adsorption on Au-55 clusters	LUIS ANTONIO PEREZ LOPEZ IGNACIO LUIS GARZON SOSA Lopez-Lozano, Xochitl	Abstracts Of Papers Of The American Chemical Society	2009
77	Low-symmetry structures of Au-32(Z) (Z = +1, 0, -1) clusters	ABRAHAM FOUAD JALBOUT FLAVIO FERNANDO CONTRERAS TORRES LUIS ANTONIO PEREZ LOPEZ et al.	JOURNAL OF PHYSICAL CHEMISTRY A	2008

LUIS ANTONIO PEREZ LOPEZ

78	Nodal effects on the electronic specific heat of anisotropic superconductors	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millan, J. Samuel	PHYSICA B-CONDENSED MATTER	2008
79	Intrinsic Chirality in Bare Gold Nanoclusters: The Au(34)(-) Case	ITZEL ERANDENI SANTIZO HUERTA FRANCISCO JAVIER HIDALGO MORENO LUIS ANTONIO PEREZ LOPEZ et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2008
80	Analysis of the BCS equations for anisotropic superconductivity	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millan, J. Samuel et al.	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2008
81	Electronic specific heat of anisotropic superconductors and its doping dependence	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millán J.S. et al.	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2007
82	Symmetry phase diagrams of the superconducting ground states induced by correlated hoppings interactions	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Samuel Millán J. et al.	PHYSICA C-SUPERCONDU CTIVITY AND ITS APPLICATIONS	2007
83	Ab-initio and tight-binding studies of porous Si and Ge	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Cruz M.	REVISTA MEXICANA DE FISICA	2007
84	Enantiospecific adsorption of chiral molecules on chiral gold clusters	LUIS ANTONIO PEREZ LOPEZ IGNACIO LUIS GARZON SOSA López-Lozano X.	PHYSICAL REVIEW LETTERS	2006
85	Electronic specific heat of s-, p-, and d-wave superconducting states	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millán J.S.	AIP Conference Proceedings	2006
86	Phase transition and diffusivity in social hierarchies with attractive sites	GERARDO GARCIA NAUMIS MARCELO DEL CASTILLO MUSSOT LUIS ANTONIO PEREZ LOPEZ et al.	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	2006
87	The triplet superconductivity in square lattices and its optimal doping dependence	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millán J.S.	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2006
88	Superconducting gap symmetry determined by the electron density	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millán J.S.	PHYSICA B-CONDENSED MATTER	2006
89	Social hierarchies with an attractive site distribution	GERARDO GARCIA NAUMIS MARCELO DEL CASTILLO MUSSOT LUIS ANTONIO PEREZ LOPEZ et al.	INTERNATIONAL JOURNAL OF MODERN PHYSICS C	2006

LUIS ANTONIO PEREZ LOPEZ

90	p-wave superconductivity in a two-dimensional generalized Hubbard model	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millán J.S.	PHYSICS LETTERS A	2005
91	A unified description of s-, p- and d-wave superconductivity	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Samuel Millán J.	PHYSICA B-CONDENSED MATTER	2005
92	Structural properties of bimetallic clusters from density functional calculations	LUIS ANTONIO PEREZ LOPEZ KARO MICHAELIAN PAUW IGNACIO LUIS GARZON SOSA et al.	INTERNATIONAL JOURNAL OF MODERN PHYSICS B	2005
93	Spin triplet pairing and superconducting states in square lattices	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millán J.S.	PHYSICA C-SUPERCONDU CTIVITY AND ITS APPLICATIONS	2004
94	Doping-dependent superconducting symmetry in Hubbard systems	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN	JOURNAL OF LOW TEMPERATURE PHYSICS	2003
95	d-wave hole superconductivity in low-dimensional Hubbard systems	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN	SOLID STATE COMMUNICATIO NS	2002
96	AC conduction in quasiperiodic lattices	CHUMIN WANG CHEN RAUL OVIEDO ROA VICENTA SANCHEZ MORALES et al.	Materials Research Society Symposium Proceedings	2001
97	dx ² -y ² pairing in the generalized Hubbard square-lattice model	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN	SOLID STATE COMMUNICATIO NS	2001
98	Electrical conductivity and localization in quasiperiodic lattices	CHUMIN WANG CHEN RAUL OVIEDO ROA LUIS ANTONIO PEREZ LOPEZ et al.	Ferroelectrics	2001
99	Renormalization approach to the Kubo formula in Fibonacci systems	VICENTA SANCHEZ MORALES LUIS ANTONIO PEREZ LOPEZ RAUL OVIEDO ROA et al.	PHYSICAL REVIEW B	2001
100	Ac conductivity of the transparent states in Fibonacci chains	RAUL OVIEDO ROA LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN	PHYSICAL REVIEW B	2000
101	Effects of the correlated hopping on the d-wave superconductivity	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN	JOURNAL OF SUPERCONDUCT IVITY AND NOVEL MAGNETISM	2000

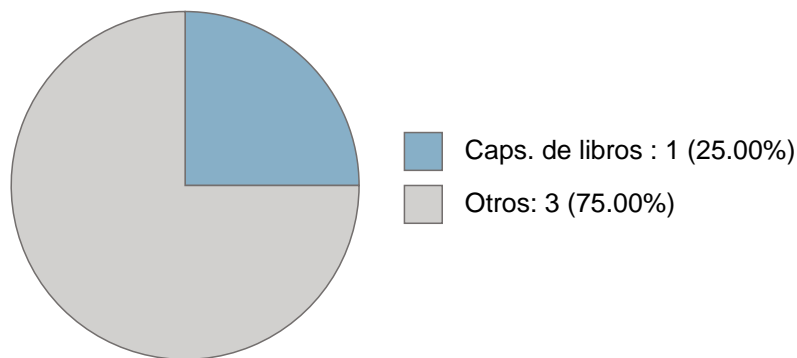
LUIS ANTONIO PEREZ LOPEZ

102	Two-particle states in the generalized Hubbard model	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN	PHYSICA B-CONDENSED MATTER	1999
103	Hole pairing in the Hubbard model	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	1998
104	Enhanced hole pairing in generalized hubbard systems	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN	SOLID STATE COMMUNICATIONS	1998
105	Hole pairing symmetry in attractive Hubbard model	CHUMIN WANG CHEN ORACIO NAVARRO CHAVEZ RAUL OVIEDO ROA et al.	PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS	1997
106	Nonperturbative results for attractive Hubbard pairings in triangular lattices	LUIS ANTONIO PEREZ LOPEZ ORACIO NAVARRO CHAVEZ CHUMIN WANG CHEN	PHYSICAL REVIEW B	1996

LUIS ANTONIO PEREZ LOPEZ

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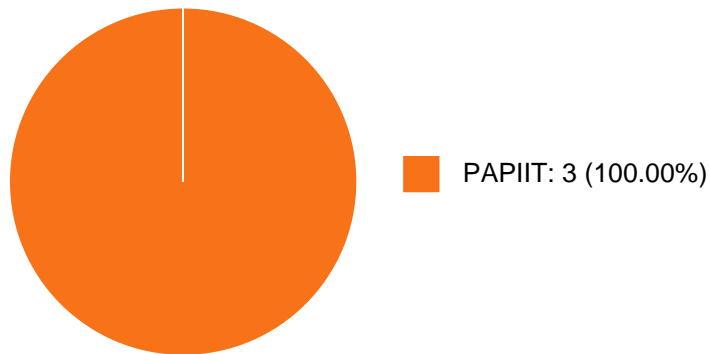


#	Título	Autores	Alcance	Año	ISBN
1	First-principles study on the adsorption of hydrogen molecules on alkali-decorated germanene for energy storage	LUIS ANTONIO PEREZ LOPEZ de Santiago F. Sosa A.N. et al.	Conferencia Paper	2019	9788361506515
2	Silicon carbide monolayer with alkali and alkaline earth metal adatoms for H2 storage: A computational study	LUIS ANTONIO PEREZ LOPEZ de Santiago F. Arellano L. et al.	Conferencia Paper	2019	9788361506515
3	Spin singlet and triplet superconductivity induced by correlated hopping interactions	LUIS ANTONIO PEREZ LOPEZ CHUMIN WANG CHEN Millan J.S.	Capítulo de un Libro	2011	9789814340793
4	Density functional study of the cysteine adsorption on Au nanoparticles	LUIS ANTONIO PEREZ LOPEZ IGNACIO LUIS GARZON SOSA López-Lozano X.	Conferencia Paper	2007	1420063421

LUIS ANTONIO PEREZ LOPEZ

PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

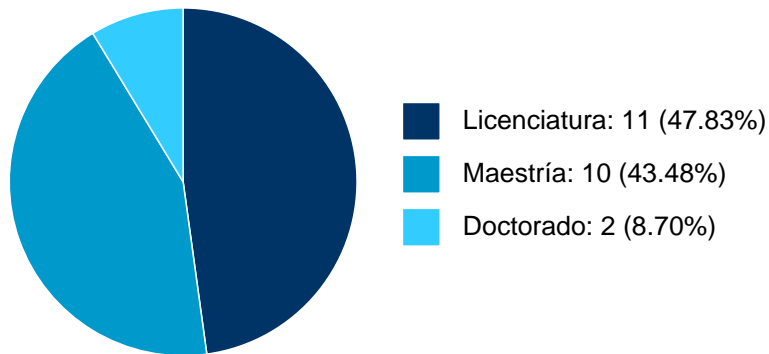


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Propiedades físicas de sistemas de baja dimensionalidad	LUIS ANTONIO PEREZ LOPEZ	Recursos PAPIIT	01-01-2017	31-12-2019
2	Fenómenos físicos en sistemas de dimensionalidad restringida.	LUIS ANTONIO PEREZ LOPEZ	Recursos PAPIIT	01-01-2020	31-12-2022
3	Fenómenos físicos en sólidos de baja dimensionalidad	LUIS ANTONIO PEREZ LOPEZ	Recursos PAPIIT	01-01-2023	31-12-2025

LUIS ANTONIO PEREZ LOPEZ

PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Estudio teórico-experimental de espectroscopías Raman e infrarroja en silicio poroso	Tesis de Maestría	VICENTA SANCHEZ MORALES,	CHUMIN WANG CHEN, LUIS ANTONIO PEREZ LOPEZ, et al.	Facultad de Ciencias, Instituto de Física, Instituto de Investigaciones en Materiales,	2024
2	Berry phase in real space and magnetic itinerant systems	Tesis de Maestría	LUIS ANTONIO PEREZ LOPEZ,	ISAAC PEREZ CASTILLO, PABLO BARBERIS BLOSTEIN, et al.	Instituto de Física, Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas,	2023
3	Producción de series binarias de luz con ruido 1/f y aleatorias usando fotones individuales en óptica integrada	Tesis de Doctorado	VICTOR MANUEL VELAZQUEZ AGUILAR,	LUIS ANTONIO PEREZ LOPEZ, Armendariz Peña, Gustavo,	Facultad de Ciencias, Instituto de Física,	2023

LUIS ANTONIO PEREZ LOPEZ

4	A divide-and-conquer algorithm based on s-matrices : conductance in randomly connected nanostructures	Tesis de Maestría	RAUL PATRICIO ESQUIVEL SIRVENT,	LUIS ANTONIO PEREZ LOPEZ, CARLOS RAMIREZ RAMOS, et al.	Facultad de Ciencias, Instituto de Física,	2022
5	Autocorrelación espacio-temporal de homicidios a nivel municipal en México para el periodo 2011-2019	Tesis de Licenciatura	LUIS ANTONIO PEREZ LOPEZ,	Castillo Escribano, Marcelo del,	Instituto de Física,	2021
6	Reactividad de nanocúmulos bimetálicos de oro y cobre	Tesis de Maestría	LUIS ANTONIO PEREZ LOPEZ,	Ramírez Lara, Moisés Fabián,	Instituto de Física,	2019
7	Propiedades mecánicas y electrónicas de nanocables de carburo de silicio	Tesis de Licenciatura	LUIS ANTONIO PEREZ LOPEZ,	Rangel García, Ángela Miscli,	Instituto de Física,	2018
8	Disociación de oxígeno molecular en cúmulos de oro con impurezas	Tesis de Doctorado	LUIS ANTONIO PEREZ LOPEZ,	Jiménez Díaz, Laura Michelle,	Instituto de Física,	2018
9	Propiedades físicas de nanocúmulos bimetálicos de oro y cobre	Tesis de Licenciatura	LUIS ANTONIO PEREZ LOPEZ,	Ramírez Lara, Moisés Fabián,	Instituto de Física,	2015
10	Estados superconductores con pares singuletes y tripletes en una cadena lineal	Tesis de Licenciatura	LUIS ANTONIO PEREZ LOPEZ,	Olivares Peña, Jorge Enrique,	Instituto de Física,	2015
11	Propiedades vibracionales y térmicas de nanoestructuras de carbono	Tesis de Maestría	IGNACIO LUIS GARZON SOSA,	LUIS ANTONIO PEREZ LOPEZ, Pedroza Montero, Jesús Nain,	Instituto de Física,	2014
12	Análisis del posible uso de superconductores en la tecnología PLC	Tesis de Licenciatura	LUIS ANTONIO PEREZ LOPEZ,	Barrientos López, Federico, Lucario Matías, Oscar,	Instituto de Física,	2014

LUIS ANTONIO PEREZ LOPEZ

13	Propiedades estructurales y electrónicas de nanocúmulos de Au	Tesis de Maestría	LUIS ANTONIO PEREZ LOPEZ,	Jimenez Diaz, Laura Michelle,	Instituto de Física,	2013
14	Adsorción enantioespecífica de cisteína en cúmulos de Au ₃₄	Tesis de Maestría	IGNACIO LUIS GARZON SOSA,	ANA CECILIA NOGUEZ GARRIDO, LUIS ANTONIO PEREZ LOPEZ, et al.	Instituto de Física,	2011
15	Propiedades estructurales y vibracionales de nanobarras de Au	Tesis de Maestría	IGNACIO LUIS GARZON SOSA,	KARO MICHAELIAN PAUW, LUIS ANTONIO PEREZ LOPEZ, et al.	Instituto de Física,	2011
16	Fluctuaciones críticas y difusión en una membrana biológica con citoplasma reológico	Tesis de Maestría	ADONIS GERMINAL COCHO GIL,	LUIS ANTONIO PEREZ LOPEZ, Barragán Vidal, Israel Abraham,	Instituto de Física,	2011
17	Modelos de influencia social con mezcla y repulsión	Tesis de Maestría	LUIS ANTONIO PEREZ LOPEZ,	Radillo Díaz, Alejandro,	Instituto de Física,	2009
18	Relación entre el estado superconductor y la densidad de estados de una partícula	Tesis de Licenciatura	LUIS ANTONIO PEREZ LOPEZ,	Barragán Vidal, Israel Abraham,	Instituto de Física,	2009
19	Propiedades estructurales, vibracionales y electrónicas de nanocúmulos de aluminio	Tesis de Licenciatura	LUIS ANTONIO PEREZ LOPEZ,	Mansurova, María,	Instituto de Física,	2009
20	Propiedades estructurales y electrónicas de nanocúmulos de níquel-platino	Tesis de Licenciatura	LUIS ANTONIO PEREZ LOPEZ,	Coronado González, Yaxk in Ú Kan,	Instituto de Física,	2008
21	Superconductividad en una cadena lineal con parámetro de salto a segundos vecinos	Tesis de Licenciatura	LUIS ANTONIO PEREZ LOPEZ,	Martínez Mérida, Jorge Luis,	Instituto de Física,	2008



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



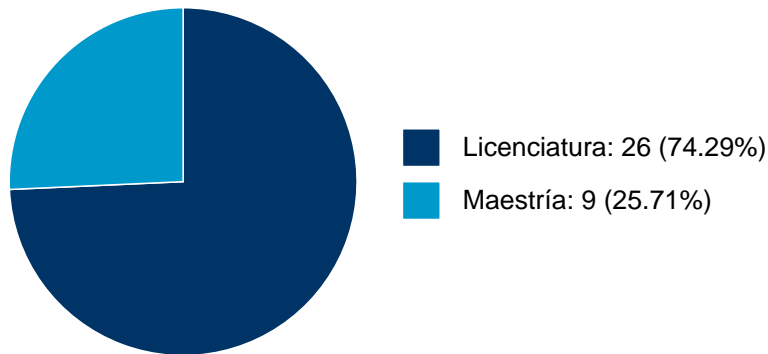
LUIS ANTONIO PEREZ LOPEZ

22	Propiedades estructurales y electronicas de nanocumulos de platino-paladio	Tesis de Licenciatura	LUIS ANTONIO PEREZ LOPEZ,	Radillo Díaz, Alejandro,	2007
23	Superconductividad en redes triangulares anisotropicas	Tesis de Licenciatura	LUIS ANTONIO PEREZ LOPEZ,	Terborg del Rosal, Heinrich Fidencio,	2007

LUIS ANTONIO PEREZ LOPEZ

DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	FENOMENOS COLECTIVOS	Facultad de Ciencias	16	2024-2
2	Licenciatura	FENOMENOS COLECTIVOS	Facultad de Ciencias	3	2024-1
3	Licenciatura	FENOMENOS COLECTIVOS	Facultad de Ciencias	30	2023-2
4	Licenciatura	FENOMENOS COLECTIVOS	Facultad de Ciencias	22	2023-1
5	Licenciatura	FENOMENOS COLECTIVOS	Facultad de Ciencias	37	2022-2
6	Licenciatura	FENOMENOS COLECTIVOS	Facultad de Ciencias	13	2022-1
7	Licenciatura	FENOMENOS COLECTIVOS	Facultad de Ciencias	14	2021-2
8	Licenciatura	FENOMENOS COLECTIVOS	Facultad de Ciencias	31	2021-1
9	Licenciatura	MECANICA VECTORIAL	Facultad de Ciencias	25	2020-2
10	Licenciatura	FENOMENOS COLECTIVOS	Facultad de Ciencias	31	2020-1
11	Licenciatura	MECANICA VECTORIAL	Facultad de Ciencias	35	2019-2
12	Licenciatura	FENOMENOS COLECTIVOS	Facultad de Ciencias	36	2019-1
13	Licenciatura	MECANICA VECTORIAL	Facultad de Ciencias	22	2018-2
14	Licenciatura	MECANICA VECTORIAL	Facultad de Ciencias	25	2018-1
15	Maestría	SEMINARIO DE INVESTIGACIÓN II	Instituto de Física	1	2017-2
16	Licenciatura	MECANICA VECTORIAL	Facultad de Ciencias	33	2017-2
17	Licenciatura	MECANICA VECTORIAL	Facultad de Ciencias	16	2017-1
18	Maestría	SEMINARIO DE INVESTIGACION I-394279	Instituto de Física	1	2017-1
19	Licenciatura	MECANICA VECTORIAL	Facultad de Ciencias	10	2016-2
20	Licenciatura	FISICA ATOMICA Y MATERIA CONDENSAD	Facultad de Ciencias	26	2016-1
21	Licenciatura	TERMODINAMICA	Facultad de Ciencias	24	2015-2
22	Licenciatura	TERMODINAMICA	Facultad de Ciencias	17	2015-1
23	Licenciatura	TERMODINAMICA	Facultad de Ciencias	16	2014-2



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



LUIS ANTONIO PEREZ LOPEZ

24	Licenciatura	TERMODINAMICA	Facultad de Ciencias	26	2014-1
25	Maestría	FISICA ESTADISTICA	Instituto de Física	17	2012-2
26	Licenciatura	TERMODINAMICA	Facultad de Ciencias	17	2012-1
27	Licenciatura	TERMODINAMICA	Facultad de Ciencias	34	2011-2
28	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Física	1	2011-2
29	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Física	1	2011-1
30	Maestría	ESTADO SOLIDO	Instituto de Física	1	2010-2
31	Maestría	ESTADO SOLIDO	Instituto de Física	3	2010-2
32	Maestría	ESTADO SOLIDO	Instituto de Física	1	2010-1
33	Maestría	ESTADO SOLIDO	Instituto de Física	6	2010-1
34	Licenciatura	TERMODINAMICA	Facultad de Ciencias	15	2009-2
35	Licenciatura	MECANICA VECTORIAL	Facultad de Ciencias	13	2009-1



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
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PATENTES

No se encuentran registros en la base de datos de patentes asociados a:

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FUENTES DE INFORMACIÓN

Internos

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2025
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2025
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2025
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

Externos

#	Información	Fuente	Sistema	Periodo
8	Documentos Indexados	Elsevier	Scopus	2008-2025
9	Documentos Indexados	Thomson Reuters	WoS	2008-2025
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2025
11	Patentes	IMPI	SIGA	2008-2024