



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



OSCAR RAYMOND HERRERA

Datos Generales

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Desde 16-03-2023

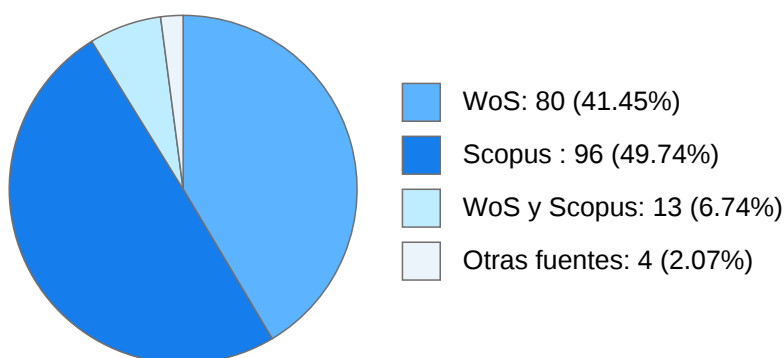
Estímulos, programas, premios y reconocimientos

SNI II 2013 - VIGENTE
SNI I - 2012
PRIDE C 2010 - 2024
PRIDE B - 2010

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Latest Updates and Future Perspective on Hybrid Halide Perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ in Humidity Sensing and Energy Conversion Applications	JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA SUBHASH SHARMA et al.	ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY	2025
2	Photovoltaic energy conversion in multiferroic perovskite absorber-based devices via experiment and theoretical calculations	SUBHASH SHARMA JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA et al.	PHYSICA B-CONDENSED MATTER	2024
3	Unveiling the red electroluminescence in LSMO-SRO thin film heterostructures	SUBHASH X OSCAR RAYMOND HERRERA Simón Z.J.H. et al.	JOURNAL OF ALLOYS AND COMPOUNDS	2024
4	Bilayer perovskite heterojunction tandem solar cells: The future of green energy conversion	SUBHASH SHARMA OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES et al.	MATERIALS LETTERS	2024
5	Effect of organic molecule layer on the interfacial engineering, stability, and conversion efficiency of the perovskite solar cell heterostructure	SUBHASH SHARMA OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES et al.	MATERIALS LETTERS	2024

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6	Recent advances in electric field-controlled magnetism using perovskite multiferroic heterostructures for spintronics applications	SUBHASH SHARMA JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA et al.	MATERIALS LETTERS	2024
7	Impact of Cr Doping on the Structural, Optical, and Magnetic Properties of Sol-Gel-Synthesized $\text{Bi}_{0.80}\text{Ba}_{0.10}\text{Pr}_{0.10}\text{FeO}_{3.0}$ Nanopowders	SUBHASH SHARMA GABRIEL ROJAS GEORGE JESUS MARIA SIQUEIROS BELTRONES et al.	Acs Omega	2024
8	An Atomic-Scale Justification for the Weak Ferromagnetism Observed in Nanostructured $\text{Zn}_{0.96-x}\text{Co}_x\text{Mn}_{0.04}\text{O}$ Powders	SUBHASH SHARMA RODRIGO PONCE PEREZ MARIA GUADALUPE MORENO ARMENTA et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2024
9	Recent advances in green synthesis of diluted magnetic plasmonic-based semiconductor nanomaterials for biomedical applications	SUBHASH SHARMA JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA et al.	Hybrid Advances	2024
10	Structural phase transition from rhombohedral to monoclinic phase and physical properties of $(1-x)\text{Bi}_{0.85}\text{La}_{0.15}\text{FeO}_3 \cdot x\text{Ca}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ ceramics prepared by the solid-state route	SUBHASH SHARMA VICTOR EMMANUEL ALVAREZ MONTAÑO JESUS MARIA SIQUEIROS BELTRONES et al.	MATERIALS CHEMISTRY AND PHYSICS	2024
11	Structural, electronic and ferromagnetic properties in $\text{Zn}_{1-x}\text{Mn}_x\text{O}$ using an experimental and theoretical approach	SUBHASH SHARMA ESPIRIDION MARTINEZ AGUILAR OSCAR RAYMOND HERRERA et al.	MATERIALS CHEMISTRY AND PHYSICS	2023
12	Investigations on Dielectric, Transport, and Ferroelectric Properties of Ca-Modified $\text{Bi}_{0.80}\text{La}_{0.20}\text{FeO}_3$ Ceramic Synthesized by Solid State Reaction Route	SUBHASH SHARMA ROSARIO ISIDRO YOCUPICIO GAXIOLA JESUS MARIA SIQUEIROS BELTRONES et al.	JOURNAL OF ELECTRONIC MATERIALS	2023
13	Outstanding photoelectrical response in BiFeO_3 hollow microspheres deposited by ultrasonic spray pyrolysis technique	K. Monfil Leyva OSCAR RAYMOND HERRERA EDUARDO FLORES PALOMINO et al.	JOURNAL OF ALLOYS AND COMPOUNDS	2023
14	One-pot synthesis of stable cationic gold species highly active in the CO oxidation confined into mordenite-like zeolite	TRINO ARMANDO ZEPEDA PARTIDA ALFREDO SOLIS GARCIA ANDREY SIMAKOV et al.	APPLIED CATALYSIS B-ENVIRONMENTAL	2023

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15	Synthesis and characterization of niobium doped bismuth titanate	OSCAR RAYMOND HERRERA Hernández-Cuevas G. Leyva Mendoza J.R. et al.	BOLETIN DE LA SOCIEDAD ESPANOLA DE CERAMICA Y VIDRIO	2023
16	A recent look at high-entropy ceramics based on doping engineering/ technology and the future scope of their novel applications	SUBHASH SHARMA JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA et al.	MATERIALS LETTERS	2023
17	Temperature effect on electrochemical properties of lithium manganese phosphate with carbon coating and decorating with MWCNT for lithium-ion battery	OSCAR RAYMOND HERRERA Robles J.H. Montes H.C. et al.	JOURNAL OF SOLID STATE ELECTROCHEMISTRY	2023
18	Stability and physical properties of the K, Na and Nb doped BiFeO ₃ lead-free system synthesized by the solid state route	SUBHASH SHARMA MA. DE LA PAZ CRUZ JAUREGUI JESUS MARIA SIQUEIROS BELTRONES et al.	CERAMICS INTERNATIONAL	2023
19	Ferroelectricity in Zn _{1-x} Mg _x O solid solutions	ESPIRIDION MARTINEZ AGUILAR OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES et al.	CURRENT APPLIED PHYSICS	2023
20	Stability of rhombohedral structure and improved dielectric and ferroelectric properties of Ba, Na, Ti doped BiFeO ₃ solid solutions	SUBHASH SHARMA JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA et al.	CERAMICS INTERNATIONAL	2022
21	Structural, magnetic and polar effects in R-doped ZnO (R = Co, Cr, Cu and V): Study of first principles	ESPIRIDION MARTINEZ AGUILAR OSCAR RAYMOND HERRERA JOSE ISRAEL BETANCOURT REYES et al.	MATERIALS CHEMISTRY AND PHYSICS	2022
22	Synthesis and Optimization of BiFeO ₃ and La-Doped BiFeO ₃ Prepared by the Solid State Reaction Method	SUBHASH SHARMA JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA et al.	Minerals Metals & Materials Series	2022
23	Optimization of SrRuO ₃ bottom electrodes fabricated by RF magnetron ion sputtering for new generation devices	SUBHASH SHARMA RAUL CAMPOS MENDOZA ROSARIO ISIDRO YOCUPICIO GAXIOLA et al.	INTERNATIONAL CONFERENCES & EXHIBITION ON NANOTECHNOLOGIES, ORGANIC ELECTRONICS & NANOMEDICINE, NANOTECHNOLOGY 2020, PT 1	2021

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24	Structural, dielectric, ferroelectric and optical properties of Er doped BiFeO ₃ nanoparticles	SUBHASH SHARMA JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA	JOURNAL OF ALLOYS AND COMPOUNDS	2021
25	Structural, Raman analysis and exchange bias effects in Mn doped multiferroic Bi _{0.80} La _{0.10} Ca _{0.10} Fe _{1-x} MnxO ₃ ceramics	SUBHASH SHARMA JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA et al.	CERAMICS INTERNATIONAL	2021
26	Photoconversion of glucose to glucuronic acid over plasmonic M-CdS/MOR (M= Ag, Au) nanocomposites	OSCAR RAYMOND HERRERA Jaime-Acuña O.E. Zamora J.L.	Sustainable Chemistry And Pharmacy	2021
27	Physical properties of the (K _{0.44} Na _{0.52} Li _{0.04}) _{0.97} La _{0.01} Nb _{0.9} Ta _{0.1} O ₃ ceramic with coexisting tetragonal and orthorhombic monocrystalline grains at room temperature	CARLOS EDUARDO OSTOS ORTIZ JOSE JUAN GERVACIO ARCINIEGA JESUS MARIO SIQUEIROS GARCIA et al.	CERAMICS INTERNATIONAL	2021
28	First-Principles study of the structural, electronic, magnetic, and ferroelectric properties of hypothetical La _{0.75} Bi _{0.25} Cr _{1-x} FexO ₃ solid solutions	ESPIRIDION MARTINEZ AGUILAR OSCAR RAYMOND HERRERA Hmok H.L. et al.	Materials Today Communications	2021
29	Photoluminescence up-conversion and cathodoluminescence in quaternary Cd _x ZnyO gamma S delta nanoparticles embedded on zeolite	MANUEL HERRERA ZALDIVAR OSCAR RAYMOND HERRERA Oscar E. Jaime-Acuna et al.	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2021
30	Unveiling Quantum Superparamagnetism by Interacting Monodomains in Multiferroic Er-Doped Bismuth Ferrate Nanostructured Particles	SUBHASH SHARMA JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2021
31	Novel photoactive magnetic semiconductor nanocomposites with potential magneto-optical properties	OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES Juan Guillermo Garcia et al.	Applied Nanoscience	2021
32	Effect of Cr ³⁺ doped on electronic and magnetic properties of SrFe ₁₂ O ₁₉ by first-principles study	H'LINH HMOK JOSE ISRAEL BETANCOURT REYES ESPIRIDION MARTINEZ AGUILAR et al.	THEORETICAL CHEMISTRY ACCOUNTS	2021
33	Structural and Electrical Behavior of (0.70)BiFe _{1-x} CoxO ₃ -(0.30)PbTiO ₃ Solid Solutions Prepared by Simple Sol-Gel Route	SUBHASH SHARMA JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA et al.	ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY	2021
34	Effect of La ³⁺ /Sr ²⁺ ordering on the magnetic properties of La _{2/3} Sr _{1/3} MnO ₃ by first principles calculations	ESPIRIDION MARTINEZ AGUILAR JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA et al.	COMPUTATIONAL MATERIALS SCIENCE	2020
35	Superparamagnetic state in La _{0.7} Sr _{0.3} MnO ₃ thin films obtained by rf-sputtering	JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA Ramírez Camacho M.C. et al.	SCIENTIFIC REPORTS	2020

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36	Phase evolution, magnetic study and evidence of spin-two phonon coupling in Ca modified Bi _{0.80} La _{0.20} FeO ₃ ceramics	SUBHASH SHARMA JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA et al.	JOURNAL OF ALLOYS AND COMPOUNDS	2020
37	Correction to: Investigation of electrical, magneto-dielectric and transport properties of multiferroic (1 - x) BiFeO ₃ ?(x) Ba _{0.7} Sr _{0.3} TiO ₃ solid solutions (Journal of Materials Science: Materials in Electronics, (2019), 30, 8, (7447-7459), 10.1007/s10854-019-01058-w)	SUBHASH SHARMA MA. DE LA PAZ CRUZ JAUREGUI JESUS MARIA SIQUEIROS BELTRONES et al.	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2020
38	Room-temperature ferromagnetism on ZnO nanoparticles doped with Cr: An experimental and theoretical analysis	SUBHASH SHARMA JONATHAN GUERRERO SANCHEZ JESUS MARIA SIQUEIROS BELTRONES et al.	JOURNAL OF ALLOYS AND COMPOUNDS	2020
39	Coexistence of two ferroelectric phases and improved room-temperature multiferroic properties in the (0.70)BiFe _{1-x} CoxO ₃ -(0.30)PbTiO ₃ system	SUBHASH SHARMA JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA et al.	JOURNAL OF APPLIED PHYSICS	2020
40	Investigation of electrical, magneto-dielectric and transport properties of multiferroic (1 - x) BiFeO ₃ ?(x) BaSr _{0.7} Ti _{0.3} O ₃ solid solutions	SUBHASH SHARMA MA. DE LA PAZ CRUZ JAUREGUI JESUS MARIA SIQUEIROS BELTRONES et al.	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2019
41	Theoretical justification of stable ferromagnetism in ferroelectric BiFeO ₃ by first-principles	DONALD HOMERO GALVAN MARTINEZ OSCAR RAYMOND HERRERA H'Mok H.L. et al.	COMPUTATIONAL MATERIALS SCIENCE	2019
42	Effect of the sintering technique on the ferroelectric and d ₃₃ piezoelectric coefficients of Bi _{0.5} (Na _{0.84} K _{0.16}) _{0.5} TiO ₃ ceramic	OSCAR RAYMOND HERRERA Hernandez-Cuevas G. Leyva Mendoza J.R. et al.	JOURNAL OF ADVANCED CERAMICS	2019
43	Effect of antimicrobial nanocomposites on Vibrio cholerae lifestyles: Pellicle biofilm, planktonic and surface-attached biofilm	ANAID MEZA VILLEZCAS OSCAR RAYMOND HERRERA ALEJANDRO HUERTA SAQUERO et al.	PLOS ONE	2019
44	Multiferroic YCrO ₃ thin films: Structural, ferroelectric and magnetic properties	JOSE JUAN GERVACIO ARCINIEGA EDUARDO ANTONIO MURILLO BRACAMONTES OSCAR EDEL CONTRERAS LOPEZ et al.	APPLIED SURFACE SCIENCE	2018
45	Li, La, Ta doped KNN ceramics obtained by RTGG	JOSE JUAN GERVACIO ARCINIEGA OSCAR RAYMOND HERRERA JESUS LEONARDO HEIRAS AGUIRRE et al.	Ferroelectrics	2018

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46	Structure and piezo-ferroelectricity relationship study of $(K_{0.5}Na_{0.5})_{0.985}La_{0.005}NbO_3$ epitaxial films deposited on $SrTiO_3$ by sputtering	JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA H'Mok H'. et al.	SCIENTIFIC REPORTS	2017
47	Dielectric spectroscopic study of $(K_{0.44}Na_{0.52}Li_{0.04})_{0.97}La_{0.01}Nb_{0.9}Ta_{0.1}O_3$ ceramics	OSCAR RAYMOND HERRERA MA. DE LA PAZ CRUZ JAUREGUI JESUS MARIA SIQUEIROS BELTRONES et al.	JOURNAL OF APPLIED PHYSICS	2017
48	Room temperature ferromagnetism and ferroelectricity in strained multiferroic $BiFeO_3$ thin films on $La_{0.7}Sr_{0.3}MnO_3/SiO_2/Si$ substrates	JOSE JUAN GERVACIO ARCINIEGA JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA et al.	ACTA MATERIALIA	2017
49	Disperse orange 30 dye degradation by assisted plasmonic photocatalysis using $Ag-CdZnSO_4/zeolitic$ matrix nanocomposites	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Jaime-Acuna, Oscar E. et al.	CATALYSIS COMMUNICATIO NS	2016
50	Improvement of the dielectric and ferroelectric properties of multiferroic $Pb(Fe_{1/2}Nb_{1/2})O_3$ ceramics processed in oxygen atmosphere	OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES Font, Reynaldo et al.	JOURNAL OF MATERIALS SCIENCE	2016
51	Synthesis of nanostructured metal?, semiconductor?, and metal/semiconductor?mordenite composites from geothermal waste	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Jaime-Acuña, O.E. et al.	Journal Of Applied Research And Technology	2016
52	Resolution improvement of accelerometers measurement for drones in agricultural applications	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico, Fabian N. et al.	Ieee Industrial Electronics Society	2016
53	Synthesis of multifunctional nanostructured materials from the Cerro Prieto geothermal brines	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Jaime-Acuña O.E. et al.	Geotermia	2016
54	Synthesis and Complete Antimicrobial Characterization of CEObACTER, an Ag-Based Nanocomposite	OSCAR RAYMOND HERRERA VITALI PETRANOVSKI AFANASIEVNA RAFAEL VAZQUEZ DUHALT et al.	PLOS ONE	2016
55	High resolution measurement of water levels in optical components	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico, Fabian N. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2016

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56	High resolution measurement of physical variables change for INS	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico, Fabian N. et al.	Proceedings Of The Ieee International Symposium On Industrial Electronics	2016
57	Growth and physical properties of highly oriented La-doped (K,Na)NbO ₃ ferroelectric thin films	OSCAR RAYMOND HERRERA Vendrell, X. Ochoa, D. A. et al.	Thin Solid Films	2015
58	UV dosimeters based on Metal-Oxide-Semiconductor structures containing Si nanocrystals	OSCAR EDEL CONTRERAS LOPEZ OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES et al.	SENSOR LETTERS	2015
59	Rational Approximations Principle for Frequency Shifts Measurement in Frequency Domain Sensors	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Fabian N. Murrieta-Rico et al.	Ieee Industrial Electronics Society	2015
60	Instability measurement in time-frequency references used on autonomous navigation systems	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Fabian N. Murrieta-Rico et al.	Proceedings Of The Ieee International Symposium On Industrial Electronics	2015
61	Electrical characterization of interface defects in MOS structures containing silicon nanoclusters	OSCAR EDEL CONTRERAS LOPEZ OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES et al.	Advanced Materials Research	2014
62	Influence of the sintering conditions on the microstructural, dielectric and piezoelectric properties of La doped KNN-Ta ceramics	OSCAR RAYMOND HERRERA JESUS LEONARDO HEIRAS AGUIRRE JESUS MARIA SIQUEIROS BELTRONES et al.	REVISTA CUBANA DE FISICA	2014
63	Multiferroic properties and magnetoelectric coupling in highly textured Pb(Fe _{0.5} Nb _{0.5})O ₃ thin films obtained by RF sputtering	OSCAR RAYMOND HERRERA Mario Curiel ROBERTO MACHORRO MEJIA et al.	ACTA MATERIALIA	2014
64	Atomic and electronic structure of quaternary Cd _x Zn _y SdO ₂ nanoparticles grown on mordenite	Oscar E. Jaime Acuna Humberto Villavicencio JESUS ANTONIO DIAZ HERNANDEZ et al.	CHEMISTRY OF MATERIALS	2014
65	Dielectric and piezoelectric properties of the KNN ceramic compound doped with Li, La and Ta	OSCAR RAYMOND HERRERA JESUS LEONARDO HEIRAS AGUIRRE MA. DE LA PAZ CRUZ JAUREGUI et al.	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2014

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66	TEM and spectroscopic ellipsometry studies of multilayer gate dielectrics containing crystalline and amorphous Si nanoclusters	D. Mateos M. A. Curiel ROBERTO MACHORRO MEJIA et al.	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	2013
67	A ferroelastic phase transition in $\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3:\text{Gd}$	J. Portelles J. Fuentes OSCAR RAYMOND HERRERA et al.	JOURNAL OF APPLIED PHYSICS	2013
68	PFM characterization of $(\text{K}_{0.5}\text{Na}_{0.5})(0.95)\text{La}-0.05(\text{Nb}_{0.9}\text{Ti}_{0.05})\text{O}-2.9$ ceramics lead free	J. Portelles J. Fuentes OSCAR RAYMOND HERRERA et al.	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2013
69	Structural and dielectric properties of La- and Ti-modified $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ ceramics	J. Portelles OSCAR RAYMOND HERRERA JESUS LEONARDO HEIRAS AGUIRRE et al.	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2012
70	Photoluminescence Properties of Eu-Doped $\text{LaSr}_2\text{AlO}_5$	OSCAR RAYMOND HERRERA GUSTAVO ALONSO HIRATA FLORES Rodriguez-Garcia, C. E. et al.	SCIENCE OF ADVANCED MATERIALS	2012
71	Study of lead-free ceramics of the $[(\text{K}_{0.5}\text{Na}_{0.5})_{0.94}\text{Li}_{0.06}]_{0.97}\text{La}_{0.01}(\text{Nb}_{0.9}\text{Ta}_{0.1})\text{O}_3$ piezoelectric composite [Estudio de cerámicas libres de plomo del compuesto piezoeléctrico $[(\text{K}_{0.5}\text{Na}_{0.5})_{0.94}\text{Li}_{0.06}]_{0.97}\text{La}_{0.01}(\text{Nb}_{0.9}\text{Ta}_{0.1})\text{O}_3$	OSCAR RAYMOND HERRERA JESUS LEONARDO HEIRAS AGUIRRE JESUS MARIA SIQUEIROS BELTRONES et al.	REVISTA CUBANA DE FISICA	2012
72	Highly oriented la doped $(\text{K}, \text{Na})\text{NbO}_3$ ferroelectric thin films	OSCAR RAYMOND HERRERA Vendrell X. Mestres L. et al.	Proceedings Of 2012 21st IEEE Int. Symp. On Applications Of Ferroelectrics Held Jointly With 11th IEEE European C	2012
73	Ferroelectricity, ferromagnetism, and magnetoelectric coupling in highly textured thin films of the multiferroic $\text{Pb}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3$	OSCAR RAYMOND HERRERA ROBERTO MACHORRO MEJIA JESUS MARIA SIQUEIROS BELTRONES et al.	Materials Research Society Symposium Proceedings	2012

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74	Magnetoelectric coupling study in multiferroic $\text{Pb}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3$ ceramics through small and large electric signal standard measurements	OSCAR RAYMOND HERRERA Reynaldo Font Jorge Portelles et al.	JOURNAL OF APPLIED PHYSICS	2011
75	Room temperature thermal properties of $\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2})\text{O}_3$ ferroelectromagnetic ceramics	R. Font OSCAR RAYMOND HERRERA J. Portelles et al.	REVISTA MEXICANA DE FISICA	2011
76	Highly textured Sr, Nb co-doped BiFeO_3 thin films grown on SrRuO_3/Si substrates by rf- sputtering	MARIA DEL PILAR OSTOS CETINA OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES et al.	JOURNAL OF APPLIED PHYSICS	2011
77	Paramagnetic resonance and non-resonant microwave absorption in iron niobate	GUSTAVO ALVAREZ ARTEAGA OSCAR RAYMOND HERRERA Font, R. et al.	SOLID STATE SCIENCES	2009
78	Ferroelectric hysteresis and aging effect analysis in multiferroic $\text{Pb}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3$ ceramics	R. Font OSCAR RAYMOND HERRERA J. Portelles et al.	JOURNAL OF APPLIED PHYSICS	2009
79	Structural study of $\text{Sr}_{0.3}\text{Ba}_{0.7}\text{Nb}_2\text{O}_6$ and $\text{La}_{0.030}\text{Sr}_{0.255}\text{Ba}_{0.700}\text{Nb}_2\text{O}_6$ ceramic systems	J. A. Luna Lopez J. Portelles OSCAR RAYMOND HERRERA et al.	MATERIALS CHEMISTRY AND PHYSICS	2009
80	Evidence of magnetoelectric coupling in $\text{Pb}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3$ ceramics through impedance spectroscopy, electromechanical resonance, and standard hysteresis measurements	OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES Font R. et al.	Materials Research Society Symposium Proceedings	2009
81	Evidence of magnetoelectric coupling in $\text{Pb}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3$ ceramics through impedance spectroscopy, electromechanical resonance, and standard hysteresis measurements raymond	OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES Font R. et al.	Materials Research Society Symposium Proceedings	2009
82	Evidence of magnetoelectric coupling in $\text{Pb}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3$ ceramics through impedance spectroscopy, electromechanical resonance, and standard hysteresis measurements	JESUS MARIA SIQUEIROS BELTRONES OSCAR RAYMOND HERRERA Font R. et al.	Materials Research Society Symposium Proceedings	2009
83	An anomaly in the temperature dependence of the electromechanical properties of Gd doped $\text{PZT}_{53/47}$	OSCAR RAYMOND HERRERA JESUS LEONARDO HEIRAS AGUIRRE JESUS MARIA SIQUEIROS BELTRONES et al.	Materials Research Society Symposium Proceedings	2008

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84	Electrical properties and diffuse phase transition of the Sr 0.3-3y/2LayBa0.7Nb2O6 ceramic system	OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES Luna-Lopez J.A. et al.	IEEE International Symposium On Applications Of Ferroelectrics	2008
85	ac conductivity in Gd doped Pb(Zr(0.53)Ti(0.47))O(3) ceramics	J. Portelles N. S. Almodovar J. Fuentes et al.	JOURNAL OF APPLIED PHYSICS	2008
86	Evidence of magnetodielectric coupling in multiferroic Pb(Fe0.5Nb0.5)O-3 ceramics from ferroelectric measurements and electron paramagnetic resonance	Reynaldo Font OSCAR RAYMOND HERRERA Jorge Portelles et al.	APPLIED PHYSICS LETTERS	2008
87	Synchrotron Techniques Applied to Ferroelectrics: Some Representative Cases	OSCAR RAYMOND HERRERA R. Font JUAN MANUEL GARCIA ISLAS et al.	INTEGR FERROELECTR	2008
88	Stoichiometry monitor in plasma assisted deposition using optical spectroscopy	OSCAR RAYMOND HERRERA ROBERTO MACHORRO MEJIA Salinas J. et al.	Optics InfoBase Conference Papers	2007
89	Spectral-optic response of ZnS and mixed CdxZnyS nanoclusters on synthetic mordenites	OSCAR RAYMOND HERRERA VITALI PETRANOVSKI AFANASIEVNA JESUS MARIA SIQUEIROS BELTRONES et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2007
90	Characterization of the dielectric properties and alternating current conductivity of the SrBi5-xLaxTi4FeO 18(x=0, 0.2) compound	OSCAR RAYMOND HERRERA JESUS LEONARDO HEIRAS AGUIRRE JESUS MARIA SIQUEIROS BELTRONES et al.	JOURNAL OF APPLIED PHYSICS	2007
91	Dielectric permittivity enhancement in PZT by light doping with Gd	OSCAR RAYMOND HERRERA JESUS LEONARDO HEIRAS AGUIRRE JESUS MARIA SIQUEIROS BELTRONES et al.	Materials Research Society Symposium Proceedings	2006
92	Ferroelectric and magnetic characterization of ferroic Pb(Fe 0.5Nb0.5)O3 ceramics	OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES Font R. et al.	Materials Research Society Symposium Proceedings	2006
93	Frequency-temperature response of ferromagnetic Pb(Fe 1/2Nb1/2)O3 ceramics obtained by different precursors. III. Dielectric relaxation near the transition temperature	OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES Font R. et al.	JOURNAL OF APPLIED PHYSICS	2006

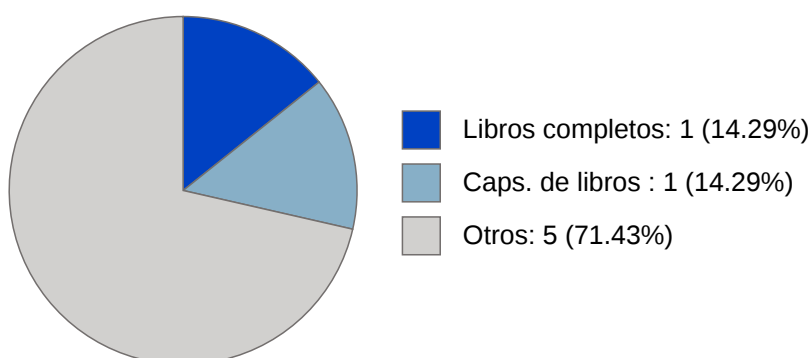
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94	Aging behavior in Ba 0.7Sr 0.3Ti 0.97Zr 0.03O ceramics	OSCAR RAYMOND HERRERA JESUS LEONARDO HEIRAS AGUIRRE JESUS MARIA SIQUEIROS BELTRONES et al.	JOURNAL OF APPLIED PHYSICS	2005
95	Frequency-temperature response of ferroelectromagnetic Pb (Fe 1/2 Nb 1/2) O 3 ceramics obtained by different precursors. Part I. Structural and thermo-electrical characterization	OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES Font R. et al.	JOURNAL OF APPLIED PHYSICS	2005
96	Effects of two kinds of FeNbO4 precursors in the obtainment and dielectric properties of PFN ceramics	OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES Font R. et al.	Ferroelectrics	2003
97	Preparation and characterization of 0.5PMN-0.5PFN ceramics using [Fe 0.6, Mg0.4]NbO4 as precursor	OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES Almodóvar N.S. et al.	JOURNAL OF MATERIALS SCIENCE	2003
98	Growth and characterization of ZnS and ZnCdS nanoclusters in mordenite zeolite host	OSCAR RAYMOND HERRERA VITALI PETRANOVSKI AFANASIEVNA JESUS MARIA SIQUEIROS BELTRONES et al.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTU RE AND PROCESSING	2003
99	Phase formation and characterization of [Fe, Mg]NbO4 as a new precursor for the PMN-PFN system	OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES Almodóvar N.S. et al.	JOURNAL OF MATERIALS SCIENCE	2002
100	Growth by laser ablation of Ti-based oxide films with different valency states	OSCAR RAYMOND HERRERA Morcrette M. Gutiérrez-Llorente A. et al.	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	1998
101	New materials obtained from high temperature phase transformations of natural zeolites	OSCAR RAYMOND HERRERA hernandez-velez M. Alvarado-Martin A. et al.	J MATER SCI LETT	1995

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	Resolution improvement of accelerometers measurement for drones in agricultural applications	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico, F.N. et al.	Conferenc e Paper	2016	9781509034741
2	High resolution measurement of physical variables change for INS	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico, F.N. et al.	Conferenc e Paper	2016	9781509008735
3	Preguntas y respuestas sobre el mundo NANO	SERGIO ANDRES AGUILA PUENTES JESUS ALBERTO MAYTORENA CORDOVA LEONARDO MORALES DE LA GARZA et al.	Libro Completo	2016	9786070281440
4	¿Que es la nanofotocatalisis y para que nos sirve?	OSCAR RAYMOND HERRERA	Capítulo de un Libro	2016	9786070281440
5	Instability measurement in time-frequency references used on autonomous navigation systems	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico F.N. et al.	Conferenc e Paper	2015	9781467375542

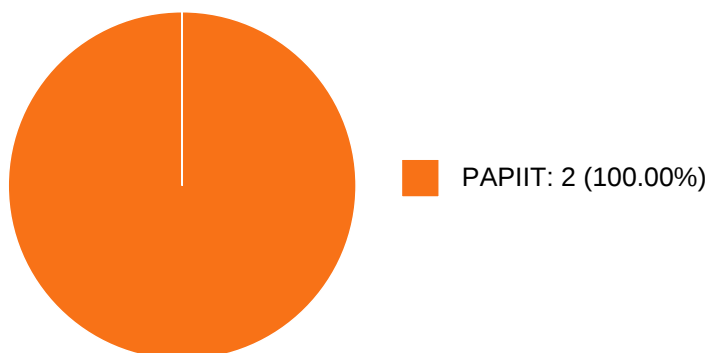
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6	Rational approximations principle for frequency shifts measurement in frequency domain sensors	VITALI PETRANOVSKI AFANASIEVNA OSCAR RAYMOND HERRERA Murrieta-Rico F.N. et al.	Conferenc e Paper	2015	9781479917624
7	Metal-oxide-semiconductor structures with two and three-region gate dielectric containing silicon nanocrystals: Structural, infrared and electrical properties	OSCAR EDEL CONTRERAS LOPEZ OSCAR RAYMOND HERRERA JESUS MARIA SIQUEIROS BELTRONES et al.	Conferenc e Paper	2013	9781482205817

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

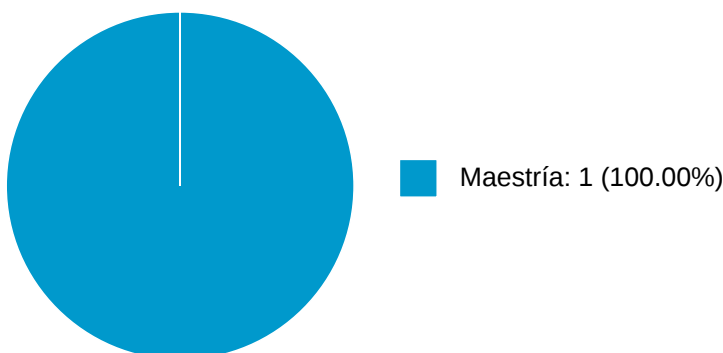


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Nanodispositivos de heteroestructuras multiferroicas integrados al silicio	OSCAR RAYMOND HERRERA	Recursos PAPIIT	01-02-2018	31-12-2020
2	Desarrollo de nanodispositivos magnetoeléctricos de heteroestructuras multiferroicas integrados al silicio	OSCAR RAYMOND HERRERA	Recursos PAPIIT	01-01-2021	31-12-2023

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis

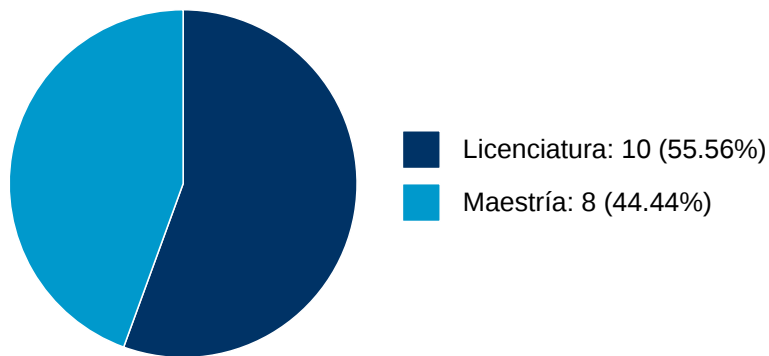


#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Heteroestructura fotocatalítica de alto rendimiento cuántico para la generación de hidrógeno de Cd _x Zn _{1-x} S/g-C ₃ N ₄	Tesis de Maestría	ROBERTO SANGINES DE CASTRO,	OSCAR RAYMOND HERRERA, Canizales Chávez, Jesús Rubén,	Centro de Nanociencias y Nanotecnología en la UNAM,	2023

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	INGENIERIA DE MATERIALES II	Centro de Nanociencias y Nanotecnología en la UNAM	25	2024-2
2	Licenciatura	INGENIERIA DE MATERIALES II	Centro de Nanociencias y Nanotecnología en la UNAM	22	2023-2
3	Licenciatura	INGENIERIA DE MATERIALES II	Centro de Nanociencias y Nanotecnología en la UNAM	16	2022-2
4	Licenciatura	INGENIERIA DE MATERIALES II	Centro de Nanociencias y Nanotecnología en la UNAM	21	2021-2
5	Licenciatura	INGENIERIA DE MATERIALES II	Centro de Nanociencias y Nanotecnología en la UNAM	26	2020-2
6	Maestría	ESTRUCTURA DE LOS MATERIALES	Instituto de Investigaciones en Materiales	2	2020-1
7	Licenciatura	INGENIERIA DE MATERIALES II	Centro de Nanociencias y Nanotecnología en la UNAM	20	2019-2

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8	Maestría	ESTRUCTURA DE LOS MATERIALES	Instituto de Investigaciones en Materiales	2	2019-2
9	Licenciatura	INGENIERIA DE MATERIALES II	Centro de Nanociencias y Nanotecnología en la UNAM	23	2018-2
10	Maestría	ESTRUCTURA DE LOS MATERIALES	Instituto de Investigaciones en Materiales	2	2017-2
11	Licenciatura	INGENIERIA DE MATERIALES II	Centro de Nanociencias y Nanotecnología en la UNAM	27	2017-2
12	Licenciatura	INGENIERIA DE MATERIALES II-337167	Centro de Nanociencias y Nanotecnología en la UNAM	5	2016-2
13	Maestría	ESTRUCTURA DE LOS MATERIALES	Instituto de Investigaciones en Materiales	2	2016-1
14	Licenciatura	INGENIERIA DE MATERIALES II	Centro de Nanociencias y Nanotecnología en la UNAM	7	2015-2
15	Maestría	ESTRUCTURA DE LOS MATERIALES	Instituto de Investigaciones en Materiales	3	2014-1
16	Maestría	ESTRUCTURA DE LOS MATERIALES	Instituto de Investigaciones en Materiales	4	2012-1
17	Maestría	ESTRUCTURA DE LOS MATERIALES	Instituto de Investigaciones en Materiales	7	2011-1
18	Maestría	ESTRUCTURA Y QUIMICA DE MATERIALES	Instituto de Investigaciones en Materiales	1	2009-1



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



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PATENTES

#	Título	Inventores	Sección	Año
1	SÍNTESIS DE NANOCOMPUESTOS FORMADOS POR NANOPARTÍCULAS METÁLICAS Y/O SEMICONDUCTORAS EMBEBIDAS EN ZEOLITAS SINTÉTICAS TIPO MORDENITA.	JESUS MARIA SIQUEIROS BELTRONES, ERIC FLORES AQUINO, OSCAR RAYMOND HERRERA,	PERFORMING OPERATIONS; TRANSPORTING	2018

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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