



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



GERARDO SOTO HERRERA

Datos Generales

Nombre: GERARDO SOTO HERRERA

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 38 años

Nombramientos

Vigente: INVESTIGADOR TITULAR B TC Definitivo
Centro de Nanociencias y Nanotecnología en la UNAM
Desde 01-03-2009

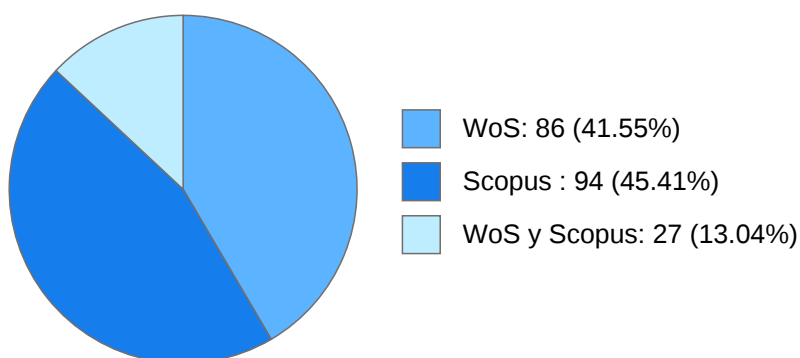
Estímulos, programas, premios y reconocimientos

SNI II 2009 - VIGENTE
SNI I 2008
PRIDE C 2012 - 2024
PRIDE Fijo 2012
PRIDE C 2012
PRIDE Fijo 2010 - 2012
PRIDE D - 2010

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Magnetic Photocatalyst Nanocomposite Based on MnFe ₂ O ₄ @ZnO for AZO Dye Degradation	JAVIER ALONSO LOPEZ MEDINA DAVID ALEJANDRO DOMINGUEZ VARGAS MARIO HUMBERTO FARIAS SANCHEZ et al.	Acs Omega	2025
2	Exploring the Bifunctionality of YSZ Thin Films in MOS Structures: Bridging the Gap between RRAM and Super-Pseudocapacitor Technologies	GERARDO SOTO HERRERA HUGO JESUS TIZNADO VAZQUEZ Arturo Romo	Acs Applied Electronic Materials	2024
3	Structural, optical, and electrical characterization of TiO ₂ -doped yttria-stabilized zirconia electrolytes grown by atomic layer deposition	GERARDO SOTO HERRERA HUGO JESUS TIZNADO VAZQUEZ Vazquez J.L. et al.	APL MATERIALS	2024
4	Noteworthy records of survival, longevity, and recruitment in a key area for jaguars in Western Mexico	GERARDO SOTO HERRERA JUAN FELIPE CHARRE MEDELLIN Tiberio C. Monterrubio-Rico et al.	Mammalia	2024
5	Hydrogen photoproduction using Au promoted ZrO _x -TiO ₂ composite catalysts	URIEL CAUDILLO FLORES GERARDO SOTO HERRERA Arce-Saldaña L.A. et al.	CATALYSIS TODAY	2023
6	Experimental and theoretical assessment of the Eu ³⁺ doped Bi ₄ Ge ₃ O ₁₂	RODRIGO PONCE PEREZ ABDUL MAURICIO REYES USUGA GERARDO SOTO HERRERA et al.	JOURNAL OF ALLOYS AND COMPOUNDS	2023

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7	Compact device for in situ ultraviolet-visible spectrophotometric measurement of photocatalytic kinetics	JOSE LUIS ARCE SALDAÑA GERARDO SOTO HERRERA JUAN REYES HERRERA et al.	REVIEW OF SCIENTIFIC INSTRUMENTS	2023
8	Optimizing energy storage performance of ALD YSZ thin film devices via yttrium concentration variations	GERARDO SOTO HERRERA HUGO JESUS TIZNADO VAZQUEZ Romo O. et al.	Journal of Energy Storage	2023
9	Investigation of diffusivity in nanometer-thick yttria-stabilized zirconia by chronoamperometry and its formalism	GERARDO SOTO HERRERA HUGO JESUS TIZNADO VAZQUEZ Vazquez-Arce J.L. et al.	JOURNAL OF THE AMERICAN CERAMIC SOCIETY	2023
10	Thickness effect of Yttria-Stabilized Zirconia as the electrolyte in all-solid-state thin-film supercapacitor with a wide operating temperature range	DAVID ALEJANDRO DOMINGUEZ VARGAS OSCAR EDEL CONTRERAS LOPEZ GERARDO SOTO HERRERA et al.	JOURNAL OF POWER SOURCES	2022
11	Effect of inert ambient annealing on structural and defect characteristics of coaxial N-CNTs@ZnO nanotubes coated by atomic layer deposition	DAVID ALEJANDRO DOMINGUEZ VARGAS MANUEL HERRERA ZALDIVAR JOSE MANUEL ROMO HERRERA et al.	CERAMICS INTERNATIONAL	2022
12	Magnetic nanostructured based on cobalt-Zinc Ferrites designed for photocatalytic dye degradation	DAVID ALEJANDRO DOMINGUEZ VARGAS JORGE NOE DIAZ DE LEON HERNANDEZ SUSANA GOMEZ GOMEZ et al.	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2021
13	YSZ thin film nanostructured battery for on-chip energy storage applications	EDER GERMAN LIZARRAGA MEDINA EDUARDO ANTONIO MURILLO BRACAMONTES GERARDO SOTO HERRERA et al.	Journal of Energy Storage	2020
14	Swirling fluidized bed plasma reactor for the preparation of supported nanoparticles	GERARDO SOTO HERRERA HUGO JESUS TIZNADO VAZQUEZ Pahuamba E. et al.	REVISTA MEXICANA DE INGENIERIA QUIMICA	2020
15	Non-quarter-wave dielectric mirror prepared by thermal atomic layer deposition	HUGO ALEJANDRO BORBON NUÑEZ NOEMI ABUNDIZ CISNEROS ROBERTO MACHORRO MEJIA et al.	OPTICS AND LASER TECHNOLOGY	2020
16	Ag nanoparticles embedded in a magnetic composite for magnetic separation applications	DAVID ALEJANDRO DOMINGUEZ VARGAS HUGO JESUS TIZNADO VAZQUEZ GERARDO SOTO HERRERA et al.	JOURNAL OF ALLOYS AND COMPOUNDS	2019
17	Cobalt?zinc ferrite and magnetite SiO ₂ nanocomposite powder for magnetic extraction of DNA	GERARDO SOTO HERRERA JAVIER ALONSO LOPEZ MEDINA HUGO JESUS TIZNADO VAZQUEZ et al.	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	2019

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18	Hot Filament Chemical Vapor Deposition of Crystalline Boron Films	GERARDO SOTO HERRERA	Journal of the Korean Ceramic Society	2019
19	Optimal sidewall functionalization for the growth of ultrathin TiO ₂ nanotubes via atomic layer deposition	DAVID ALEJANDRO DOMINGUEZ VARGAS JOSE MANUEL ROMO HERRERA HUGO JESUS TIZNADO VAZQUEZ et al.	JOURNAL OF MATERIALS SCIENCE	2018
20	Plasma synthesis of carbon powder with embedded Fe ₃ C nanoparticles for magnetic separation of biomolecules	DAVID ALEJANDRO DOMINGUEZ VARGAS MARIO HUMBERTO FARIAS SANCHEZ GERARDO SOTO HERRERA et al.	ADVANCED POWDER TECHNOLOGY	2018
21	Low-temperature ozone treatment for carbon nanotube template removal: improving the template-based ALD method	DAVID ALEJANDRO DOMINGUEZ VARGAS JOSE MANUEL ROMO HERRERA OSCAR EDEL CONTRERAS LOPEZ et al.	JOURNAL OF NANOPARTICLE RESEARCH	2018
22	Physical and electrical characterization of yttrium-stabilized zirconia (YSZ) thin films deposited by sputtering and atomic-layer deposition	HUGO JESUS TIZNADO VAZQUEZ GERARDO SOTO HERRERA DAVID ALEJANDRO DOMINGUEZ VARGAS et al.	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2018
23	Gold nanostructures based on DNA Origami templates with applications in nanoelectronics and plasmonics	GERARDO SOTO HERRERA ENRIQUE CUAUHTEMOC SAMANO TIRADO David D. Ruiz et al.	Mrs Advances	2017
24	Fabrication of hollow TiO ₂ nanotubes through atomic layer deposition and MWCNT templates	DAVID ALEJANDRO DOMINGUEZ VARGAS JOSE MANUEL ROMO HERRERA GERARDO SOTO HERRERA et al.	POWDER TECHNOLOGY	2017
25	FABRICATION OF CNTS BY TOLUENE DECOMPOSITION IN A NEW REACTOR BASED ON AN ATMOSPHERIC PRESSURE PLASMA JET COUPLED TO A CVD SYSTEM	GERARDO SOTO HERRERA Ramírez-Hernández, F. Muñoz-Muñoz, F.	Journal of Engineering Science and Technology	2017
26	Al ₂ O ₃ -Y ₂ O ₃ ultrathin multilayer stacks grown by atomic layer deposition as perspective for optical waveguides applications	ROBERTO MACHORRO MEJIA MARIO HUMBERTO FARIAS SANCHEZ HUGO JESUS TIZNADO VAZQUEZ et al.	OPTICAL MATERIALS	2017
27	Enhancing the oxidation resistance of diamond powder by the application of Al ₂ O ₃ conformal coat by atomic layer deposition	DAVID ALEJANDRO DOMINGUEZ VARGAS HUGO JESUS TIZNADO VAZQUEZ JOSE MANUEL ROMO HERRERA et al.	DIAMOND AND RELATED MATERIALS	2016

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28	Computational and experimental study of copper-gold nitride formation	GERARDO SOTO HERRERA MARIA GUADALUPE MORENO ARMENTA WENCEL JOSE DE LA CRUZ HERNANDEZ et al.	JOURNAL OF ALLOYS AND COMPOUNDS	2015
29	The control of thickness on aluminum oxide nanotubes by Atomic Layer Deposition using carbon nanotubes as removable templates	Franklin MunozMunoz GERARDO SOTO HERRERA DAVID ALEJANDRO DOMINGUEZ VARGAS et al.	POWDER TECHNOLOGY	2015
30	Structure determination and electronic structure of Cu ₃ Au 0.5N	GERARDO SOTO HERRERA MARIA GUADALUPE MORENO ARMENTA WENCEL JOSE DE LA CRUZ HERNANDEZ et al.	JOURNAL OF ALLOYS AND COMPOUNDS	2014
31	Pulsed-bed atomic layer deposition setup for powder coating	HUGO JESUS TIZNADO VAZQUEZ DAVID ALEJANDRO DOMINGUEZ VARGAS F. Munoz Munoz et al.	POWDER TECHNOLOGY	2014
32	First principles calculations of interstitial and lamellar rhenium nitrides	GERARDO SOTO HERRERA HUGO JESUS TIZNADO VAZQUEZ A. Reyes et al.	JOURNAL OF ALLOYS AND COMPOUNDS	2012
33	Computational study of Hf, Ta, W, Re, Ir, Os and Pt pernitrides	GERARDO SOTO HERRERA	COMPUTATIONAL MATERIALS SCIENCE	2012
34	TiO ₂ and Al ₂ O ₃ ultra thin nanolaminates growth by ALD; instrument automation and films characterization	HUGO JESUS TIZNADO VAZQUEZ DAVID ALEJANDRO DOMINGUEZ VARGAS WENCEL JOSE DE LA CRUZ HERNANDEZ et al.	REVISTA MEXICANA DE FISICA	2012
35	Ab initio calculations of non-stoichiometric copper nitride, pure and with palladium	MARIA GUADALUPE MORENO ARMENTA GERARDO SOTO HERRERA NOBORU TAKEUCHI TAN	JOURNAL OF ALLOYS AND COMPOUNDS	2011
36	Evaluation of rhenium carbide as a prospective material for hard coating	GERARDO SOTO HERRERA HUGO JESUS TIZNADO VAZQUEZ JESUS ANTONIO DIAZ HERNANDEZ et al.	Thin Solid Films	2011
37	Influence of reaction conditions on the growth of GaN rods in an ammono-CVD reactor	Gregorio Guadalupe Carbajal Arizaga GERARDO SOTO HERRERA OSCAR EDEL CONTRERAS LOPEZ et al.	JOURNAL OF CRYSTAL GROWTH	2011
38	Preparation of a Ag/SiO ₂ nanocomposite using a fluidized bed microwave plasma reactor, and its hydrodesulphurization and Escherichia coli bactericidal activities	GERARDO SOTO HERRERA HUGO JESUS TIZNADO VAZQUEZ OSCAR EDEL CONTRERAS LOPEZ et al.	POWDER TECHNOLOGY	2011

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39	Use of AES in corrosion of copper connectors of electronic devices and equipments in arid and marine environments	HUGO JESUS TIZNADO VAZQUEZ GERARDO SOTO HERRERA WENCEL JOSE DE LA CRUZ HERNANDEZ et al.	ANTI-CORROSION METHODS AND MATERIALS	2011
40	Influence of climate factors on copper corrosion in electronic equipment and devices	HUGO JESUS TIZNADO VAZQUEZ GERARDO SOTO HERRERA Badilla Gustavo, Lopez et al.	ANTI-CORROSION METHODS AND MATERIALS	2010
41	Synthesis and characterization of cubic BC ₂ N grown by reactive laser ablation	GERARDO SOTO HERRERA WENCEL JOSE DE LA CRUZ HERNANDEZ Castillo, H. A. et al.	SURFACE & COATINGS TECHNOLOGY	2010
42	Mechanical properties optimization of tungsten nitride thin films grown by reactive sputtering and laser ablation	ENRIQUE CUAUHTEMOC SAMANO TIRADO A. Clemente JESUS ANTONIO DIAZ HERNANDEZ et al.	Vacuum	2010
43	Study on the addition of nonmetal interstitial atoms to the yttrium lattice: formation of YB _x , YC _x and YN _x alloys	GERARDO SOTO HERRERA MARIA GUADALUPE MORENO ARMENTA ARMANDO REYES SERRATO	PHYSICAL STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	2009
44	Model of the discharge voltage of the deposit ZrO _x by reactive ion erosion	VICTOR JULIAN GARCIA GRADILLA GERARDO SOTO HERRERA ROBERTO MACHORRO MEJIA et al.	REVISTA MEXICANA DE FISICA	2009
45	The most probable structures of platinum nitride as a function of composition	GERARDO SOTO HERRERA MARIA GUADALUPE MORENO ARMENTA	PHYSICAL STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	2009
46	First principles study on the formation of yttrium nitride in cubic and hexagonal phases	GERARDO SOTO HERRERA MARIA GUADALUPE MORENO ARMENTA ARMANDO REYES SERRATO	COMPUTATIONAL MATERIALS SCIENCE	2008
47	Stability and electronic structure of intrinsic and intercalated copper nitride alloys	MARIA GUADALUPE MORENO ARMENTA GERARDO SOTO HERRERA	SOLID STATE SCIENCES	2008
48	The role of valence electron concentration in the cohesive properties of YB _x N _{1-x} , YC _x N _{1-x} and YN _x O _{1-x} compounds	GERARDO SOTO HERRERA MARIA GUADALUPE MORENO ARMENTA ARMANDO REYES SERRATO	JOURNAL OF ALLOYS AND COMPOUNDS	2008
49	Electron inelastic mean free path for B(4)C and BC(2)N determined by reflection electron energy loss spectroscopy	GERARDO SOTO HERRERA JESUS ANTONIO DIAZ HERNANDEZ WENCEL JOSE DE LA CRUZ HERNANDEZ et al.	MICROELECTRONICS J	2008
50	Study on the formation of rhenium borides by density functional calculations	GERARDO SOTO HERRERA MARIA GUADALUPE MORENO ARMENTA ARMANDO REYES SERRATO	COMPUTATIONAL MATERIALS SCIENCE	2008

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51	Electronic structure of scandium nitride with nitrogen and scandium deficits	MARIA GUADALUPE MORENO ARMENTA GERARDO SOTO HERRERA	COMPUTATIONAL MATERIALS SCIENCE	2007
52	Synthesis of cubic ruthenium nitride by reactive pulsed laser ablation	MARIA GUADALUPE MORENO ARMENTA GERARDO SOTO HERRERA Diaz J. et al.	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2007
53	Characterization of rhenium nitride films produced by reactive pulsed laser deposition	GERARDO SOTO HERRERA MARIO HUMBERTO FARIAS SANCHEZ WENCEL JOSE DE LA CRUZ HERNANDEZ et al.	MATERIALS CHARACTERIZATION	2007
54	A study on the flexibility of the hot-filament configuration and its implementation for diamond, boron carbide and ternary alloys deposition	GERARDO SOTO HERRERA OSCAR EDEL CONTRERAS LOPEZ Silva G.	SURFACE & COATINGS TECHNOLOGY	2006
55	Cobalt nitride films produced by reactive pulsed laser deposition	WENCEL JOSE DE LA CRUZ HERNANDEZ OSCAR EDEL CONTRERAS LOPEZ GERARDO SOTO HERRERA et al.	REVISTA MEXICANA DE FISICA	2006
56	Correlation functions between specific volume and stoichiometry for transition metal nitrides	GERARDO SOTO HERRERA MARTHA ELOISA APARICIO CEJA MIGUEL AVALOS BORJA	JOURNAL OF ALLOYS AND COMPOUNDS	2005
57	XPS, AES, and EELS characterization of nitrogen-containing thin films	GERARDO SOTO HERRERA WENCEL JOSE DE LA CRUZ HERNANDEZ MARIO HUMBERTO FARIAS SANCHEZ	JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA	2004
58	Synthesis of PtN _x films by reactive laser ablation	GERARDO SOTO HERRERA	MATERIALS LETTERS	2004
59	Spectroscopic characterization of TiC _x films produced by pulsed laser deposition in CH ₄ environments	GERARDO SOTO HERRERA	APPLIED SURFACE SCIENCE	2004
60	Beryllium nitride: An alternative material to beryllium for extreme ultraviolet and soft X-ray uses	WENCEL JOSE DE LA CRUZ HERNANDEZ GERARDO SOTO HERRERA Yubero F.	OPTICAL MATERIALS	2004
61	Amorphous magnesium nitride films produced by reactive pulsed laser deposition	GERARDO SOTO HERRERA JESUS ANTONIO DIAZ HERNANDEZ WENCEL JOSE DE LA CRUZ HERNANDEZ et al.	JOURNAL OF NON-CRYSTALLINE SOLIDS	2004
62	AES, EELS and XPS characterization of Ti(C, N, O) films prepared by PLD using a Ti target in N ₂ , CH ₄ , O ₂ and CO as reactive gases	GERARDO SOTO HERRERA	APPLIED SURFACE SCIENCE	2004

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63	Copper nitride films produced by reactive pulsed laser deposition	GERARDO SOTO HERRERA JESUS ANTONIO DIAZ HERNANDEZ WENCEL JOSE DE LA CRUZ HERNANDEZ	MATERIALS LETTERS	2003
64	Characterization of tungsten oxide films produced by reactive pulsed laser deposition	GERARDO SOTO HERRERA WENCEL JOSE DE LA CRUZ HERNANDEZ JESUS ANTONIO DIAZ HERNANDEZ et al.	APPLIED SURFACE SCIENCE	2003
65	Growth of beryllium nitride films by pulsed laser deposition; dielectric function determination	GERARDO SOTO HERRERA ROBERTO MACHORRO MEJIA JESUS ANTONIO DIAZ HERNANDEZ et al.	Thin Solid Films	2003
66	Tungsten nitride films grown via pulsed laser deposition studied in situ by electron spectroscopies	GERARDO SOTO HERRERA WENCEL JOSE DE LA CRUZ HERNANDEZ FELIPE FRANCISCO CASTILLON BARRAZA et al.	APPLIED SURFACE SCIENCE	2003
67	Yttrium nitride thin films grown by reactive laser ablation	WENCEL JOSE DE LA CRUZ HERNANDEZ NOBORU TAKEUCHI TAN GERARDO SOTO HERRERA et al.	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2003
68	Heat-induced polymerization of α -CNx films grown by pulsed laser deposition	GERARDO SOTO HERRERA	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	2002
69	Beryllium nitride thin film grown by reactive laser ablation	GERARDO SOTO HERRERA JESUS ANTONIO DIAZ HERNANDEZ ROBERTO MACHORRO MEJIA et al.	MATERIALS LETTERS	2002
70	Epitaxial α -Be ₃ N ₂ thin films grown on Si substrates by reactive laser ablation	GERARDO SOTO HERRERA JESUS ANTONIO DIAZ HERNANDEZ WENCEL JOSE DE LA CRUZ HERNANDEZ et al.	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2002
71	DLC thin films characterized by AES, XPS and EELS	ENRIQUE CUAUHEMOC SAMANO TIRADO GERARDO SOTO HERRERA AMELIA OLIVAS SARABIA et al.	APPLIED SURFACE SCIENCE	2002
72	Electron spectroscopic identification of carbon species on CNx films	GERARDO SOTO HERRERA	MATERIALS LETTERS	2001
73	Study of composition and bonding character of CNx films	GERARDO SOTO HERRERA ENRIQUE CUAUHEMOC SAMANO TIRADO ROBERTO MACHORRO MEJIA et al.	APPLIED SURFACE SCIENCE	2001
74	Modification of refractive index in silicon oxynitride films during deposition	ROBERTO MACHORRO MEJIA ENRIQUE CUAUHEMOC SAMANO TIRADO GERARDO SOTO HERRERA et al.	MATERIALS LETTERS	2000

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75	Electronic structure of β -Be ₃ N ₂	ARMANDO REYES SERRATO GERARDO SOTO HERRERA FRANCISCO ARTURO GAMITEA Y DOMINGUEZ et al.	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	1998
76	Effects of background gas-plume interaction in the deposition of Si _x N _y films	ENRIQUE CUAUHEMOC SAMANO TIRADO ROBERTO MACHORRO MEJIA GERARDO SOTO HERRERA et al.	APPLIED SURFACE SCIENCE	1998
77	Si _x C _y N _y , thin films alloys prepared by pulsed excimer laser deposition	ROBERTO MACHORRO MEJIA ENRIQUE CUAUHEMOC SAMANO TIRADO GERARDO SOTO HERRERA et al.	APPLIED SURFACE SCIENCE	1998
78	Refractive index modification during deposition of silicon oxynitride films prepared by reactive laser ablation	ROBERTO MACHORRO MEJIA GERARDO SOTO HERRERA ENRIQUE CUAUHEMOC SAMANO TIRADO et al.	Materials Research Society Symposium Proceedings	1998
79	In situ ellipsometric characterization of Si _x N _y films grown by laser ablation	ENRIQUE CUAUHEMOC SAMANO TIRADO ROBERTO MACHORRO MEJIA GERARDO SOTO HERRERA et al.	JOURNAL OF APPLIED PHYSICS	1998
80	Growth of SiC and Si _x C _y N _y films by pulsed laser ablation of SiC in Ar and N ₂ environments	GERARDO SOTO HERRERA ENRIQUE CUAUHEMOC SAMANO TIRADO ROBERTO MACHORRO MEJIA et al.	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	1998
81	Characterization of excess Si in nonstoichiometric SiO ₂ films by optical and surface analysis techniques	JESUS MARIA SIQUEIROS BELTRONES ROBERTO MACHORRO MEJIA LEONEL SUSANO COTA ARAIZA et al.	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	1997
82	Microstructural identification of Si _x N _y films by real-time ellipsometry	GERARDO SOTO HERRERA ENRIQUE CUAUHEMOC SAMANO TIRADO ROBERTO MACHORRO MEJIA et al.	Materials Research Society Symposium Proceedings	1997
83	In situ monitoring and characterization of SiC interface formed in carbon films grown by pulsed laser deposition	ENRIQUE CUAUHEMOC SAMANO TIRADO GERARDO SOTO HERRERA JOSE OCTAVIO VALENZUELA TIJERINO et al.	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	1997
84	Optical properties of boron nitride thin films	STEPHEN MUHL SAUNDERS LEONEL SUSANO COTA ARAIZA GERARDO SOTO HERRERA et al.	DIAMOND AND RELATED MATERIALS	1994
85	Blue photoluminescence from CeCl ₂ doped Al ₂ O ₃ films	ISRAEL GRADILLA MARTINEZ GERARDO SOTO HERRERA LEONEL SUSANO COTA ARAIZA et al.	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	1994

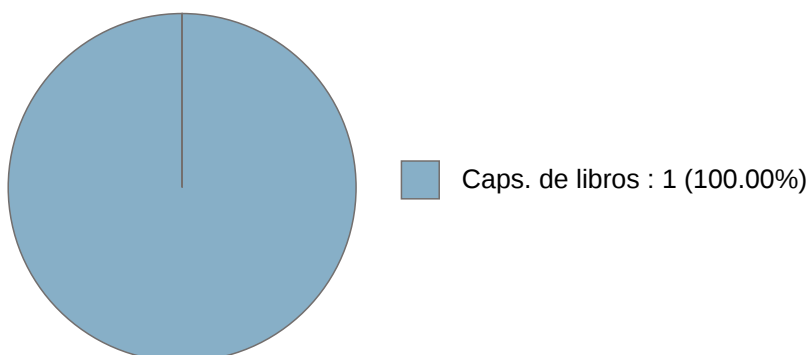
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86	Structural properties of low temperature silicon oxide films prepared by remote plasma-enhanced chemical vapor deposition	MARIO HUMBERTO FARIAS SANCHEZ LEONEL SUSANO COTA ARAIZA GERARDO SOTO HERRERA et al.	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	1993
87	Luminescent characteristics of Tb doped Al ₂ O ₃ films deposited by spray pyrolysis	MARIO HUMBERTO FARIAS SANCHEZ GERARDO SOTO HERRERA Falcony C. et al.	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	1992
88	Nuclear reactions as a probe of fluorine content in SnO ₂ :F thin films	JORGE EDUARDO RICKARDS CAMPBELL MARIO HUMBERTO FARIAS SANCHEZ LEONEL SUSANO COTA ARAIZA et al.	Thin Solid Films	1991
89	Variable energy gap in oxygenated amorphous cadmium telluride	MARIO HUMBERTO FARIAS SANCHEZ GERARDO SOTO HERRERA LEONEL SUSANO COTA ARAIZA et al.	JAPANESE JOURNAL OF APPLIED PHYSICS	1991
90	Preparation of cubic boron nitride films by plasma-enhanced chemical vapour deposition of BF ₃ , N ₂ and H ₂ gas mixtures	STEPHEN MUHL SAUNDERS GERARDO SOTO HERRERA LEONEL SUSANO COTA ARAIZA et al.	SURFACE & COATINGS TECHNOLOGY	1991
91	SiO ₂ prepared by remote plasma-enhanced chemical vapor deposition using SiCl ₄ and O ₂ at substrate temperatures of less than 200 °C	LEONEL SUSANO COTA ARAIZA GERARDO SOTO HERRERA Ortiz A. et al.	Thin Solid Films	1991
92	Chemical reactivity characteristics of low-temperature chlorine-doped tin oxide deposited on hydrogenated amorphous silicon	MARIO HUMBERTO FARIAS SANCHEZ GERARDO SOTO HERRERA LEONEL SUSANO COTA ARAIZA et al.	Solar Energy Materials	1990
93	CdTe and CdMTe (M = Fe, In, Sb) thin film studies by Mössbauer spectroscopy and other techniques	MARIO HUMBERTO FARIAS SANCHEZ LEONEL SUSANO COTA ARAIZA GERARDO SOTO HERRERA et al.	Thin Solid Films	1990
94	Plasma enhanced chemical vapor deposition of SiO ₂ films at low temperatures using SiCl ₄ and O ₂	LEONEL SUSANO COTA ARAIZA GERARDO SOTO HERRERA Ortiz A. et al.	JOURNAL OF ELECTRONIC MATERIALS	1990
95	Electron stimulated desorption study of irradiated poly(vinyl chloride)	LEONEL SUSANO COTA ARAIZA ESBAIDE ADEM CHAHIN GERARDO SOTO HERRERA et al.	APPLIED SURFACE SCIENCE	1988

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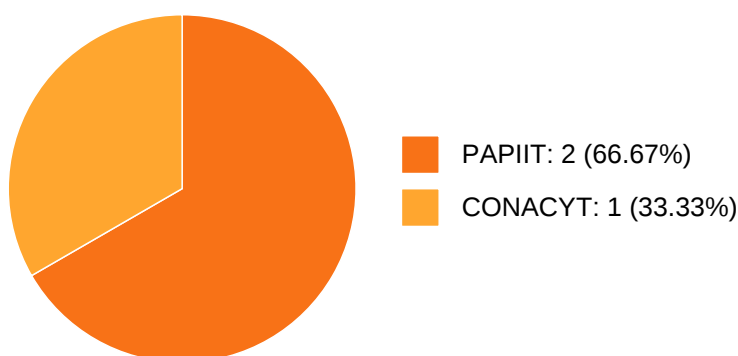


#	Título	Autores	Alcance	Año	ISBN
1	Hydraulic conductivity and state estimation for stochastic flow and transport models	GERARDO SOTO HERRERA JOSE MARIA BRISEÑO ALMARAZ	Capítulo de un Libro	2010	9781439862995

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

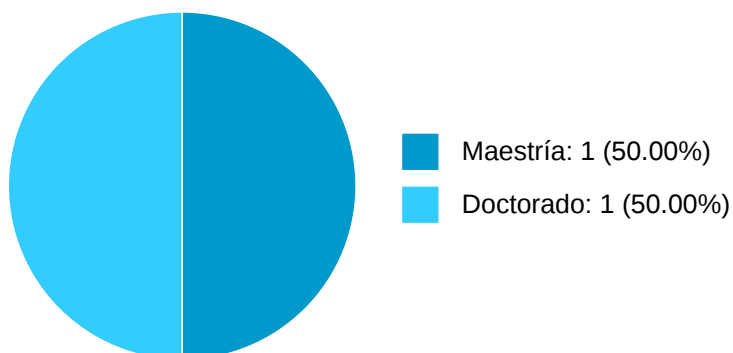


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Materiales Magnéticos Funcionales Nanoestructurados.	GERARDO SOTO HERRERA	Recursos PAPIIT	01-01-2020	31-12-2022
2	Estudio químico-estructural de la nucleación de óxido metálico: de clusters atómicos a estructuras autosoportadas.	GERARDO SOTO HERRERA	Recursos CONACYT	15-10-2019	15-10-2023
3	Nanoestructuras Magneto - Controlables basadas en ferritas del tipo $A(1-x)BxFe_2O_4$ para su aplicación en Nanotecnología	GERARDO SOTO HERRERA	Recursos PAPIIT	01-01-2024	31-12-2026

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis

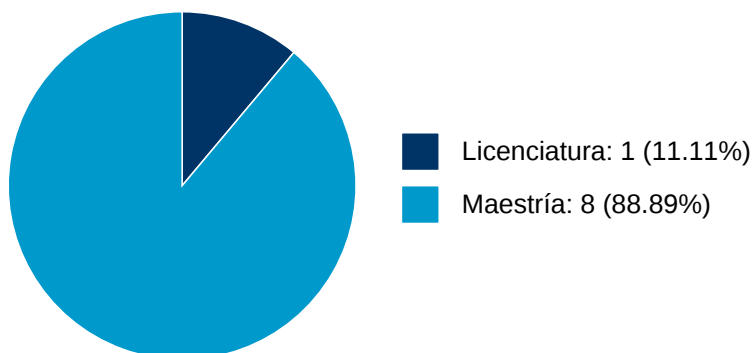


#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	"Fabricación de nanolambres de oro usando moldes por medio de ADN"	Tesis de Doctorado	ARMANDO HERNANDEZ GARCIA,	ENRIQUE CUAUHTEMO C SAMANO TIRADO, GERARDO SOTO HERRERA, et al.	Centro de Nanociencias y Nanotecnología en la UNAM, Instituto de Química,	2022
2	Síntesis y caracterización de recubrimientos duros de Mo (C,N) utilizando la técnica de pulverización catódica reactiva	Tesis de Maestría	GERARDO SOTO HERRERA,	Ramírez Hernández, Felipe,	Centro de Nanociencias y Nanotecnología en la UNAM,	2009

GERARDO SOTO HERRERA

DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	MATERIALES ELECTRÓNICOS: NANOTECNOLOGÍA Y NANOMATERIALES	Instituto de Investigaciones en Materiales	1	2024-2
2	Maestría	MATERIALES ELECTRÓNICOS: NANOTECNOLOGÍA Y NANOMATERIALES	Instituto de Investigaciones en Materiales	2	2020-2
3	Maestría	LABORATORIO AVANZADO	Centro de Nanociencias y Nanotecnología en la UNAM	2	2019-2
4	Licenciatura	NANOMATERIALES II: CARACTERIZACION-335987	Centro de Nanociencias y Nanotecnología en la UNAM	9	2016-2
5	Maestría	LABORATORIO AVANZADO	Centro de Nanociencias y Nanotecnología en la UNAM	3	2013-1
6	Maestría	TEMAS SELECTOS DE MATERIALES COMPLEJOS	Instituto de Investigaciones en Materiales	1	2011-2
7	Maestría	PROPIEDADES MECANICAS 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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8	Maestría	TEMAS SELECTOS DE MECANICA DE MATERIALES (OPTATIVA)	Instituto de Investigaciones en Materiales	1	2008-2
9	Maestría	TEMAS SELECTOS DE CARACTERIZACION DE MATERIALES (OPTATIVA)	Instituto de Investigaciones en Materiales	3	2008-1



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



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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