



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



STEPHEN MUHL SAUNDERS

Datos Generales

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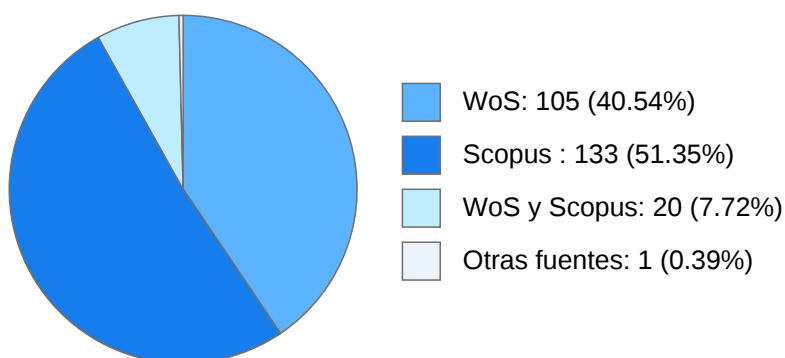
Estímulos, programas, premios y reconocimientos

SNI III - VIGENTE
PRIDE D - 2024

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Structure, mechanical properties and tribological behavior of Hf/HfN multilayer coatings deposited by magnetron sputtering	STEPHEN MUHL SAUNDERS Marco Antonio Hernandez Campos Jorge Bertin Santaella Gonzalez et al.	SURFACE & COATINGS TECHNOLOGY	2025
2	Synthesis of anodized films of TiO ₂ , chromium-doped TiO ₂ and cobalt-doped TiO ₂ for structural, hardness and friction coefficient analysis	STEPHEN MUHL SAUNDERS Hernández Montiel S. Zamora Peredo L. et al.	Mrs Advances	2025
3	Influence of electrochemical anodization and thermal annealing on the morphology, hardness, and friction coefficient of TiO ₂ nanotubes	STEPHEN MUHL SAUNDERS Rodríguez-Jiménez R.C. Hernández Torres J. et al.	Mrs Advances	2025
4	The Effects of the Finishing Polish Process on the Tribological Properties of Boride Surfaces of AISI 4140 Steel	STEPHEN MUHL SAUNDERS Daniel Misael Flores-Arcos Noe Lopez-Perrusquia et al.	Coatings	2025
5	Surface temperature of a 2 in. Ti target during DC magnetron sputtering	CARLOS DAVID RAMOS VILCHIS STEPHEN MUHL SAUNDERS Jacobo-Mora D.S. et al.	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	2024

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6	Tribocorrosion Evaluation of AISI 431 Coated With Tungsten Oxynitride	STEPHEN MUHL SAUNDERS Garcia Ramos T. Zeinert A. et al.	JOURNAL OF TRIBOLOGY-TRANSACTIONS OF THE ASME	2024
7	Manufacture of a Nanocomposite of Carbon Fibre and Nanotubes and Epoxy Resin	STEPHEN MUHL SAUNDERS Rita Aguilar Osorio Samantha N. Carranza Mejia	Nano Hybrids And Composites	2024
8	Cobalt-doped TiO ₂ by one-step anodization and with a HCl-based solution for the study of hardness and adherence	STEPHEN MUHL SAUNDERS Montiel S.H. Torres J.H. et al.	MATERIALS LETTERS	2024
9	The Effects of the Addition of Zr on the Mechanical and Tribological Properties of TaN Coating	ERNESTO DAVID GARCIA BUSTOS STEPHEN MUHL SAUNDERS Martin Flores-Martinez et al.	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	2024
10	Effect of anodizing time on the hardness and tribological properties of Ti-6Al-4V	STEPHEN MUHL SAUNDERS Rodríguez-Jiménez R.C. Hernández-Torres J. et al.	Mrs Advances	2023
11	Deposition of metal thin films using a hollow cathode hydrogen discharge	STEPHEN MUHL SAUNDERS JULIO CESAR CRUZ CARDENAS Camps I. et al.	SURFACE & COATINGS TECHNOLOGY	2022
12	Micro-abrasive wear behavior by the ball cratering technique on AISI L6 steel for agricultural application	STEPHEN MUHL SAUNDERS D. Sanchez-Huerta N. Lopez-Perrusquia et al.	MATERIALS LETTERS	2021
13	Si sputtering yield amplification: a study of the collisions cascade and species in the sputtering plasma	JULIO CESAR CRUZ CARDENAS ROBERTO SANGINES DE CASTRO STEPHEN MUHL SAUNDERS et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2021
14	Plasma Emission Spectroscopy to Study the Resputtering Produced by Pulsed Laser Deposition of Au and in Combination With Magnetron Sputtering of ZnO	OSMARY LISSETTE DEPABLOS RIVERA RAUL ALVAREZ MENDOZA MARCO ANTONIO MARTINEZ FUENTES et al.	IEEE TRANSACTIONS ON PLASMA SCIENCE	2021
15	Wear and corrosion interaction of aisi d2 in an acidic environment	STEPHEN MUHL SAUNDERS Garcia T. Zeinert A. et al.	Tribologia: Finnish Journal of Tribology	2021
16	Tribocorrosion behavior of boride coating on CoCrMo alloy produced by thermochemical process in 0.35% NaCl solution	STEPHEN MUHL SAUNDERS M. A. Donu-Ruiz N. Lopez-Perrusquia et al.	SURFACE & COATINGS TECHNOLOGY	2021

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17	Nanocomposite films of α -C:H/Bi made using a toroidal planar hollow cathode	ARGELIA PEREZ PACHECO ROXANA MARISOL CALDERON OLVERA STEPHEN MUHL SAUNDERS et al.	FlatChem	2020
18	Niobium oxide coatings increase the creep and wear resistance of glass	ROXANA MARISOL CALDERON OLVERA STEPHEN MUHL SAUNDERS González-Zavala P. et al.	MATERIALS LETTERS	2020
19	Phase diagrams of refractory bimetallic nanoalloys	RAFAEL MENDOZA PEREZ STEPHEN MUHL SAUNDERS	JOURNAL OF NANOPARTICLE RESEARCH	2020
20	Surpassing Cu-Ta Miscibility Barriers Using a High-Current Pulsed Arc	RAFAEL MENDOZA PEREZ AMIN BAHRAMI ROXANA MARISOL CALDERON OLVERA et al.	ADVANCED MATERIALS INTERFACES	2020
21	Tribological study of a mono and multilayer coating of TaZrN/TaZr produced by magnetron sputtering on AISI-316L stainless steel	STEPHEN MUHL SAUNDERS Hernández-Navarro C. Rivera L.P. et al.	TRIBOLOGY INTERNATIONAL	2019
22	Methodology and fabrication of adherent and crack-free SU-8 photoresist-derived carbon MEMS on fused silica transparent substrates	DOROTEO MENDOZA LOPEZ STEPHEN MUHL SAUNDERS LAURA ADRIANA OROPEZA RAMOS et al.	JOURNAL OF MICROMECHANICS AND MICROENGINEERING	2019
23	Structural, chemical and mechanical study of TiAlV film on UHMWPE produced by DC magnetron sputtering	STEPHEN MUHL SAUNDERS Berumen J.O. De la Mora T. et al.	JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS	2019
24	Hybrid magnetron sputtering and pulsed laser ablation for the deposition of composite ZnO-Au films	OSMARY LISSETTE DEPABLOS RIVERA CITLALI SANCHEZ AKE STEPHEN MUHL SAUNDERS et al.	Thin Solid Films	2019
25	Structure, mechanical properties and corrosion resistance of amorphous Ti-Cr-O coatings	AMIN BAHRAMI STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA et al.	SURFACE & COATINGS TECHNOLOGY	2019
26	Study of C, Al, Si and Ge sputtering yield amplification by ion beam analysis and co-sputtering simulation software	JULIO CESAR CRUZ CARDENAS STEPHEN MUHL SAUNDERS EDUARDO ANDRADE IBARRA et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2019
27	Multipass and reciprocating microwear study of TiN based films	AMIN BAHRAMI STEPHEN MUHL SAUNDERS Morón R.C. et al.	SURFACE & COATINGS TECHNOLOGY	2019

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28	Modeling the thickness distribution of silicon oxide thin films grown by reactive magnetron sputtering	JULIO CESAR CRUZ CARDENAS ROBERTO SANGINES DE CASTRO NOEMI ABUNDIZ CISNEROS et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2019
29	Al-Si-N thin films deposited by laser ablation: Effect of plasma parameters on mechanical and optical properties	STEPHEN MUHL SAUNDERS L. P. Rivera Enrique Camps et al.	MATERIALS RESEARCH BULLETIN	2018
30	Compositional and Tribo-Mechanical Characterization of Ti-Ta Coatings Prepared by Confocal Dual Magnetron Co-Sputtering	STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA Bahrami A. et al.	ADVANCED ENGINEERING MATERIALS	2018
31	Cylindrical hot refractory anode vacuum arc (CHRAVA)	STEPHEN MUHL SAUNDERS Camps I. Camps E.	REVIEW OF SCIENTIFIC INSTRUMENTS	2018
32	Tribological, Tribocorrosion and Wear Mechanism Studies of TaZrN Coatings Deposited by Magnetron Sputtering on TiAlV Alloy	STEPHEN MUHL SAUNDERS Ernesto Garcia Martin Flores et al.	Coatings	2018
33	Transparent conductive carbon nanotube films	STEPHEN MUHL SAUNDERS Aguilar Osorio, R. Martinez Huitle, U. A.	REVISTA MEXICANA DE FISICA	2017
34	Reduction of the coefficient of friction of niobium nitride coatings by the addition of bismuth	STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA Mirabal-Rojas, Roberto et al.	Vacuum	2016
35	Ion beam analysis and co-sputtering simulation (CO-SS) of bi-metal films produced by magnetron co-sputtering	EDUARDO ANDRADE IBARRA STEPHEN MUHL SAUNDERS CARLOS EDUARDO CANTO ESCAMILLA et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2016
36	Effect of the addition of Si into Nb ₂ O ₅ coatings on their structural, optical, and mechanical properties	STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA Mirabal-Rojas, Roberto et al.	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	2016
37	Few layers graphene as thermally activated optical modulator in the visible-near IR spectral range	JUAN ARNALDO HERNANDEZ CORDERO STEPHEN MUHL SAUNDERS DOROTEO MENDOZA LOPEZ et al.	OPTICS LETTERS	2016

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38	Opto-electronic properties of bismuth oxide films presenting different crystallographic phases	Celia L. Gomez Osmary DepablosRivera PHAEDRA SURIEL SILVA BERMUDEZ et al.	Thin Solid Films	2015
39	The use of hollow cathodes in deposition processes: A critical review	STEPHEN MUHL SAUNDERS ARGELIA PEREZ PACHECO	Thin Solid Films	2015
40	Bismuth nanoparticles synthesized by laser ablation in lubricant oils for tribological tests	STEPHEN MUHL SAUNDERS E. Garcia MARIO ALBERTO FIGUEROA SALDIVAR et al.	JOURNAL OF ALLOYS AND COMPOUNDS	2015
41	Symmetric nested complexes of fullerenes	Naveicy Mar LUIS ENRIQUE SANSORES CUEVAS STEPHEN MUHL SAUNDERS et al.	JOURNAL OF MOLECULAR MODELING	2015
42	Stabilization of the delta-phase in Bi ₂ O ₃ thin films	Celia L. Gomez Osmary Depablos Rivera JUAN CARLOS MEDINA VAZQUEZ et al.	Solid State Ionics	2014
43	Influence of plasma density on the chemical composition and structural properties of pulsed laser deposited TiAlN thin films	STEPHEN MUHL SAUNDERS Quinones-Galvan, J. G. Camps, Enrique et al.	PHYSICS OF PLASMAS	2014
44	Preliminary Tribological Study and Tool Life of Four Commercial Drills	Marco Figueroa ERNESTO RIVERA GARCIA STEPHEN MUHL SAUNDERS et al.	TRIBOLOGY TRANSACTIONS	2014
45	Tribological properties of TiSiN thin films deposited by laser ablation	Ivan Camps STEPHEN MUHL SAUNDERS Camps, Enrique et al.	SURFACE & COATINGS TECHNOLOGY	2014
46	Transparent conductive carbon nanotube films	STEPHEN MUHL SAUNDERS Aguilar Osorio R. Martínez Huitle U.A.	REVISTA MEXICANA DE FISICA	2014
47	Tribological characterization of TiCN coatings deposited by two crossed laser ablation plasma beams	Ivan Camps STEPHEN MUHL SAUNDERS Camps, Enrique et al.	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2013
48	A comparative study of fibrinogen adsorption onto metal oxide thin films	STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA PHAEDRA SURIEL SILVA BERMUDEZ	APPLIED SURFACE SCIENCE	2013
49	Characteristics of a toroidal planar hollow cathode and its use for the preparation of Bi nanoparticles	A. Perez A. T. Luna STEPHEN MUHL SAUNDERS	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2013

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50	A look into the interaction of metal oxide thin films with biological media: Albumin and Fibrinogen adsorption	STEPHEN MUHL SAUNDERS MARGARITA RIVERA HERNANDEZ SANDRA ELIZABETH RODIL POSADA et al.	Materials Research Society Symposium Proceedings	2011
51	Ion beam analysis of sputtered AlN films	EDUARDO ANDRADE IBARRA STEPHEN MUHL SAUNDERS Mahmood, Arshad et al.	CURRENT APPLIED PHYSICS	2011
52	Niobium based coatings for dental implants	G. Ramirez SANDRA ELIZABETH RODIL POSADA HIGINIO ARZATE et al.	APPLIED SURFACE SCIENCE	2011
53	Amorphous Carbon Gold Nanocomposite Thin Films: Structural and Spectro-ellipsometric Analysis	Z. Montiel Gonzalez SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS et al.	Thin Solid Films	2011
54	Albumin adsorption on oxide thin films studied by spectroscopic ellipsometry	SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS PHAEDRA SURIEL SILVA BERMUDEZ	APPLIED SURFACE SCIENCE	2011
55	TiCN thin films grown by reactive crossed beam pulsed laser deposition	STEPHEN MUHL SAUNDERS I. Camps Escobar-Alarcon, L. et al.	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2010
56	Amorphous niobium oxide thin films	G. Ramirez SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS et al.	JOURNAL OF NON-CRYSTALLINE SOLIDS	2010
57	Hydrogen plasma etching of silicon dioxide in a hollow cathode system	OVIDIO YORDANIS PEÑA RODRIGUEZ STEPHEN MUHL SAUNDERS WILBERT DE JESUS LOPEZ et al.	Thin Solid Films	2010
58	High-current pulsed arc synthesis of encapsulated silver nanoparticles: control of the relative size of the metallic nucleus	F. Maya STEPHEN MUHL SAUNDERS Miki-Yoshida, M.	J OPTOELECTRON ADV M	2010
59	Initial considerations on the relationship between the optical absorption and the thermal conductivity in dielectrics	CRESCENCIO GARCIA SEGUNDO MAYO VILLAGRAN MUNIZ STEPHEN MUHL SAUNDERS et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2010
60	The preparation of permalloy 80/20 thin films using a pulsed DC discharge in a hollow cathode	WILBERT DE JESUS LOPEZ STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA	Vacuum	2009
61	On the simultaneous analysis of optical and thermal properties of thin films via pseudo-transmittance spectroscopy: aluminium nitride	CRESCENCIO GARCIA SEGUNDO MAYO VILLAGRAN MUNIZ STEPHEN MUHL SAUNDERS	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2009

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62	Corrosion behavior of amorphous carbon deposit in 0.89% NaCl by electrochemical impedance spectroscopy	DAVID TURCIO ORTEGA SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS	DIAMOND AND RELATED MATERIALS	2009
63	Synthesis and characterization of silver-carbon nanoparticles produced by high-current pulsed arc	F. Maya STEPHEN MUHL SAUNDERS O. Pena et al.	Thin Solid Films	2009
64	Biocompatibility and bio-corrosion resistance of amorphous oxide thin films	SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS HIGINIO ARZATE et al.	Materials Research Society Symposium Proceedings	2009
65	Comparison and semiconductor properties of nitrogen doped carbon thin films grown by different techniques	STEPHEN MUHL SAUNDERS Alibart, F. Drouhin, O. Durand et al.	APPLIED SURFACE SCIENCE	2008
66	Electrochemical behavior of titanium thin films obtained by magnetron sputtering	DAVID TURCIO ORTEGA SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS	MATER SCI-MEDZG	2008
67	Comparative study of niobium nitride coatings deposited by unbalanced and balanced magnetron sputtering	SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS Olaya, J. J.	Thin Solid Films	2008
68	Structural, magnetic and magneto-electric properties of La(1-x)Sr(x)MnO(3) thin films prepared by pulsed laser deposition	Calderon, S., V STEPHEN MUHL SAUNDERS M. Rivera et al.	MICROELECTRO N J	2008
69	Influence of the ion-atom flux ratio on the mechanical properties of chromium nitride thin films	SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS Olaya J.J. et al.	Vacuum	2007
70	The influence of the magnetic field configuration on plasma parameters and microstructure of niobium nitride films	SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS Olaya J.J. et al.	SURFACE & COATINGS TECHNOLOGY	2007
71	Effect of substrate bias voltage on corrosion of TiN/Ti multilayers deposited by magnetron sputtering	RAUL ESCAMILLA GUERRERO EDUARDO ANDRADE IBARRA STEPHEN MUHL SAUNDERS et al.	APPLIED SURFACE SCIENCE	2007
72	α -CN thin film properties as a function of laser ablation plasma parameters	STEPHEN MUHL SAUNDERS Escobar-Alarcón L. Arrieta A. et al.	DIAMOND AND RELATED MATERIALS	2007
73	Effects of deposition parameters on the properties of amorphous carbon nitride thin films prepared by laser ablation	STEPHEN MUHL SAUNDERS Escobar-Alarcón L. Arrieta A. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2007

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74	An alternative procedure for the determination of the optical band gap and thickness of amorphous carbon nitride thin films	STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA Escobar-Alarcón L. et al.	APPLIED SURFACE SCIENCE	2007
75	Characterization of the laser ablation plasma used for the deposition of amorphous carbon	STEPHEN MUHL SAUNDERS Camps E. Escobar-Alarcón L. et al.	APPLIED SURFACE SCIENCE	2007
76	Plasma-wall interaction delay time in Novillo tokamak	STEPHEN MUHL SAUNDERS MAYO VILLAGRAN MUNIZ Valencia R. et al.	AIP Conference Proceedings	2006
77	Surface and optical analysis of SiCx films prepared by RF-RMS technique	STEPHEN MUHL SAUNDERS ROBERTO MACHORRO MEJIA JESUS LEONARDO HEIRAS AGUIRRE et al.	DIAMOND AND RELATED MATERIALS	2006
78	Influence of the energy parameter on the microstructure of chromium nitride coatings	SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS Olaya J.J. et al.	SURFACE & COATINGS TECHNOLOGY	2006
79	Biocompatibility, cytotoxicity and bioactivity of amorphous carbon films	SANDRA ELIZABETH RODIL POSADA HIGINIO ARZATE STEPHEN MUHL SAUNDERS et al.	Topics in Applied Physics	2006
80	Laser ablation plasma parameters influence on the deposition process of amorphous carbon	STEPHEN MUHL SAUNDERS Camps E. Escobar-Alarcón L. et al.	AIP Conference Proceedings	2005
81	The influence of the period size on the corrosion and the wear abrasion resistance of TiN/Ti multilayers	STEPHEN MUHL SAUNDERS EDUARDO ANDRADE IBARRA Flores M. et al.	SURFACE & COATINGS TECHNOLOGY	2005
82	Comparative study of chromium nitride coatings deposited by unbalanced and balanced magnetron sputtering	SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS Olaya J.J. et al.	Thin Solid Films	2005
83	High-current pulsed arc preparation of carbon and metal-carbon nanoparticles	STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA Maya F. et al.	J OPTOELECTRON ADV M	2005
84	Synthesis of black cobalt and tin oxide films by the sol-gel process: Surface and optical properties	STEPHEN MUHL SAUNDERS Barrera E. Avila A. et al.	SOLAR ENERGY MATERIALS AND SOLAR CELLS	2005
85	Effect of the plasma parameters on the properties of titanium nitride thin films grown by laser ablation	STEPHEN MUHL SAUNDERS Escobar-Alarcón L. Camps E. et al.	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2005
86	Bonding in amorphous carbon nitride	SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS	DIAMOND AND RELATED MATERIALS	2004

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87	Ion beam analysis of TiN/Ti multilayers deposited by magnetron sputtering	STEPHEN MUHL SAUNDERS Flores M. Barradas N.P. et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2004
88	Optical properties of TiO _{2-x} thin films studied by spectroscopic ellipsometry: Substrate temperature effect	CELIA ANGELINA SANCHEZ PEREZ ALEJANDRO ESPARZA GARCIA SANDRA ELIZABETH RODIL POSADA et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2004
89	Deposition of ta-C:N:H as function of experimental parameters	SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS	SURFACE ENGINEERING	2004
90	Cobalt oxide films for solar selective surfaces, obtained by spray pyrolysis	LAZARO HUERTA ARCOS STEPHEN MUHL SAUNDERS Avila G. A. et al.	SOLAR ENERGY MATERIALS AND SOLAR CELLS	2004
91	Thermoluminescent α -CN thin films properties as a function of plasma parameters	STEPHEN MUHL SAUNDERS Escobar-Alarcón L. Camps E. et al.	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2004
92	Optical and surface analysis of DC-reactive sputtered AlN films	ROBERTO MACHORRO MEJIA STEPHEN MUHL SAUNDERS JESUS LEONARDO HEIRAS AGUIRRE et al.	DIAMOND AND RELATED MATERIALS	2003
93	Characterization of black and white chromium electrodeposition films: Surface and optical properties	LAZARO HUERTA ARCOS STEPHEN MUHL SAUNDERS Aguilar M. et al.	JOURNAL OF NON-CRYSTALLINE SOLIDS	2003
94	Properties of carbon films and their biocompatibility using in-vitro tests	SANDRA ELIZABETH RODIL POSADA HIGINIO ARZATE STEPHEN MUHL SAUNDERS et al.	DIAMOND AND RELATED MATERIALS	2003
95	Optical gap in carbon nitride films	SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS Maca S. et al.	Thin Solid Films	2003

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96	The effect of Ag addition on the corrosion of Zn-22wt%Al alloys	SAID ROBLES CASOLCO STEPHEN MUHL SAUNDERS GABRIEL JORGE TORRES VILLASEÑOR et al.	Materials Research Society Symposium Proceedings	2003
97	The relation between the plasma characteristic and the corrosion properties of TiN/Ti multilayers deposited by unbalanced magnetron sputtering	STEPHEN MUHL SAUNDERS Flores M. EDUARDO ANDRADE IBARRA	Thin Solid Films	2003
98	Studies of pulsed high-current arcs used to prepare carbon films	STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA MAYO VILLAGRAN MUNIZ et al.	Thin Solid Films	2003
99	α -C thin film deposition by laser ablation	STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA Olea-Cardoso O. et al.	Thin Solid Films	2003
100	Discharge cleaning and wall conditioning in a Novillo Tokamak	STEPHEN MUHL SAUNDERS Valencia R. De La Rosa J. et al.	J NUCL MATER	2002
101	Thermoluminescent response of carbon nitride thin films deposited by laser ablation	STEPHEN MUHL SAUNDERS Escobar-Alarcon L. Villarreal-Barajas J.E. et al.	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2002
102	Ion beam analysis of SiCx thin films using a deuterium beam	EDUARDO ANDRADE IBARRA STEPHEN MUHL SAUNDERS Mahmood A. et al.	SURFACE & COATINGS TECHNOLOGY	2002
103	Infrared spectra of carbon nitride films	SANDRA ELIZABETH RODIL POSADA STEPHEN MUHL SAUNDERS Ferrari A.C. et al.	Thin Solid Films	2002
104	DLC films prepared by election evaporation of graphite in an ECR plasma	STEPHEN MUHL SAUNDERS Camps E. Escobar-Alarcón L. et al.	DIAMOND AND RELATED MATERIALS	2001
105	BCN thin films near the B4C composition deposited by radio frequency magnetron sputtering	STEPHEN MUHL SAUNDERS Lousa A. Esteve J. et al.	DIAMOND AND RELATED MATERIALS	2000
106	Microwave plasma characteristics in steel nitriding process	STEPHEN MUHL SAUNDERS MAYO VILLAGRAN MUNIZ Camps E. et al.	Thin Solid Films	2000
107	Dependency of reactive magnetron-sputtered SiC film quality on the deposition parameters	STEPHEN MUHL SAUNDERS LUIS ENRIQUE SANSORES CUEVAS Mahmood A. et al.	Thin Solid Films	2000

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108	Preparation of CNSix using a RF hollow cathode	STEPHEN MUHL SAUNDERS Mahmood A.	DIAMOND AND RELATED MATERIALS	2000
109	Electron evaporation of carbon using a high density plasma	STEPHEN MUHL SAUNDERS Camps E. Escobar-Alarcón L. et al.	Thin Solid Films	2000
110	The preparation, characterization and tribological properties of TA-C : H deposited using an electron cyclotron wave resonance plasma beam source	STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA Morrison N.A. et al.	PHYS STATUS SOLIDI A	1999
111	Vibrational and optical properties of carbon nitride films prepared by reactive magnetron sputtering	STEPHEN MUHL SAUNDERS SERGIO JOAQUIN JIMENEZ SANDOVAL Méndez J.M. et al.	JOURNAL OF PHYSICS-CONDENSED MATTER	1999
112	A review of the preparation of carbon nitride films	STEPHEN MUHL SAUNDERS Méndez J.M.	DIAMOND AND RELATED MATERIALS	1999
113	Determination of thin film optical properties by the photoacoustic OPC technique	CRESCENCIO GARCIA SEGUNDO MAYO VILLAGRAN MUNIZ STEPHEN MUHL SAUNDERS	JOURNAL OF PHYSICS D-APPLIED PHYSICS	1998
114	Preparation and characterization of carbon nitride films	STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA JOSE GONZALO GONZALEZ REYES et al.	Tms Annual Meeting	1998
115	Characterization of high nitrogen content carbon nitride thin films by RBS and infrared techniques	STEPHEN MUHL SAUNDERS Méndez J.M. Gaona-Couto A. et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	1998
116	Properties of n+ and p+ polysilicon thin films fabricated by an excimer laser-activated spin-on dopant technique	STEPHEN MUHL SAUNDERS Al-Nuaimy E.A. Marshall J.M.	JOURNAL OF NON-CRYSTALLINE SOLIDS	1998
117	Hollow cathode synthesis of crystalline CN films	STEPHEN MUHL SAUNDERS JOSE GONZALO GONZALEZ REYES Gaona-Couto A. et al.	DIAMOND AND RELATED MATERIALS	1998
118	Microwave plasma nitrided austenitic AISI-304 stainless steel	STEPHEN MUHL SAUNDERS Camps E. Romero S. et al.	SURFACE & COATINGS TECHNOLOGY	1998

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119	Influence of microwave plasma parameters on the nitriding of T-304 stainless steel	STEPHEN MUHL SAUNDERS SILVIA ROMERO RANGEL Camps E.	Vacuum	1998
120	Cryochemical Synthesis of Mn-Containing Poly(p-Xylylene)	LARISSA ALEXANDROVA STEPHEN MUHL SAUNDERS ROBERTO RENE SALCEDO PINTOS et al.	J INORG ORGANOMET P	1998
121	Effects of the plasma conditions on the bonding type in carbon nitride thin films	STEPHEN MUHL SAUNDERS Mendez J.M. Gaona-Couto A. et al.	Materials Research Society Symposium Proceedings	1997
122	Production and characterisation of carbon nitride thin films produced by a graphite hollow cathode system	STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA JOSE GONZALO GONZALEZ REYES et al.	Thin Solid Films	1997
123	High rate deposition of Ta-C:H using an electron cyclotron wave resonance plasma source	STEPHEN MUHL SAUNDERS SANDRA ELIZABETH RODIL POSADA Morrison N.A. et al.	Materials Research Society Symposium Proceedings	1997
124	Aluminium nitride films prepared by reactive magnetron sputtering	STEPHEN MUHL SAUNDERS Zapien J.A. Mendez J.M. et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	1997
125	Optical properties of hydrogenated amorphous silicon films doped with fluorinated gases	STEPHEN MUHL SAUNDERS Méndez J.M. Pickin W.F. et al.	JOURNAL OF NON-CRYSTALLINE SOLIDS	1995
126	Optical properties of boron nitride thin films	STEPHEN MUHL SAUNDERS LEONEL SUSANO COTA ARAIZA GERARDO SOTO HERRERA et al.	DIAMOND AND RELATED MATERIALS	1994
127	The Effect of Illumination on the Contact Angles of Pure Water on Amorphous Silicon	RICARDO VERA GRAZIANO STEPHEN MUHL SAUNDERS FILIBERTO RIVERA TORRES	JOURNAL OF COLLOID AND INTERFACE SCIENCE	1993
128	Hydrogen-sensitive Ni/SiO ₂ /α-Si:H Schottky diodes	STEPHEN MUHL SAUNDERS Ortiz A. López S. et al.	Thin Solid Films	1992
129	Optical properties of amorphous carbon thin films prepared by plasma deposition in a graphite hollow cathode	STEPHEN MUHL SAUNDERS Mendez J.M. Contreras-Puente G. et al.	Thin Solid Films	1992
130	Low temperature SiO ₂ films	STEPHEN MUHL SAUNDERS Falcony C. Ortiz A. et al.	Thin Solid Films	1991

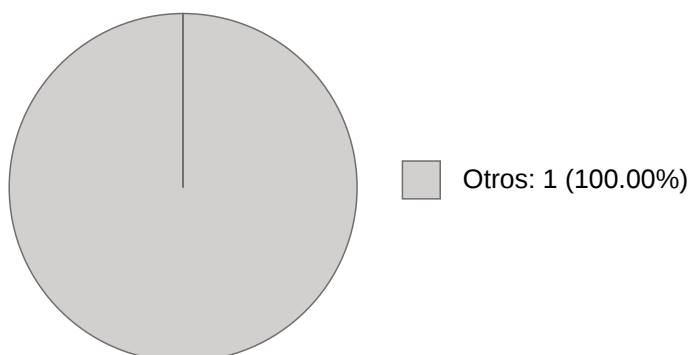
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131	Preparation of cubic boron nitride films by plasma-enhanced chemical vapour deposition of BF ₃ , N ₂ and H ₂ gas mixtures	STEPHEN MUHL SAUNDERS GERARDO SOTO HERRERA LEONEL SUSANO COTA ARAIZA et al.	SURFACE & COATINGS TECHNOLOGY	1991
132	Low temperature SiO ₂ films	STEPHEN MUHL SAUNDERS Falcony C. Ortiz A. et al.	Thin Solid Films	1990
133	Low temperature SiO ₂ films	STEPHEN MUHL SAUNDERS Falcony C. Ortiz A. et al.	Thin Solid Films	1990
134	The photovoltages of amorphous silicon n-i-n and p-i-p	STEPHEN MUHL SAUNDERS Pickin W.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	1983
135	Trap statistics and the gap density of states in amorphous materials	STEPHEN MUHL SAUNDERS Pickin W.	SOLID STATE COMMUNICATIONS	1983
136	The effect of rare earth impurities on the oxidation of chromium	STEPHEN MUHL SAUNDERS Collins R.A. Dearnaley G.	Journal Of Physics F: Metal Physics	1979

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN

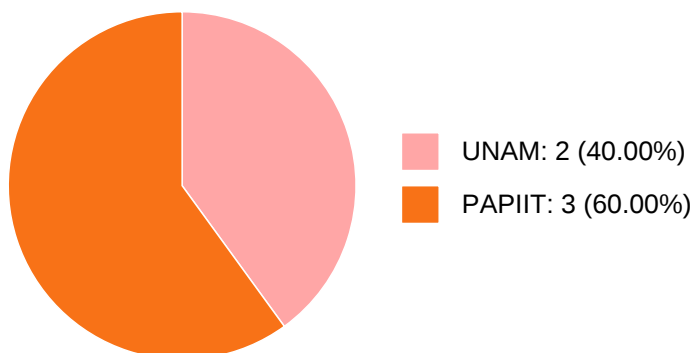


#	Título	Autores	Alcance	Año	ISBN
1	Quantum Origin of Cosmological Structure and Dynamical Reduction Theories	DANIEL EDUARDO SUDARSKY SAIONZ STEPHEN MUHL SAUNDERS Chamcham, K et al.	Article	2017	9781107145399

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

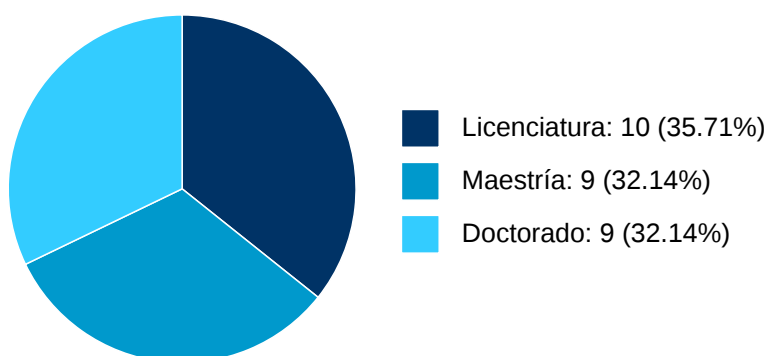


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Semiconductores de brecha grande i.	STEPHEN MUHL SAUNDERS	Presupuesto de la UNAM asignado a la Dependencia	01-01-2018	31-12-2021
2	Tribología avanzada	STEPHEN MUHL SAUNDERS	Recursos PAPIIT	01-01-2017	31-12-2019
3	Estudios de los plasmas usados por la técnica de erosión iónica reactiva con magnetrón (Reactive magnetrón sputtering).	STEPHEN MUHL SAUNDERS	Recursos PAPIIT	01-01-2020	31-12-2022
4	Semiconductores de brecha grande i.	STEPHEN MUHL SAUNDERS	Presupuesto de la UNAM asignado a la Dependencia	01-01-2022	31-12-2025
5	Continuación y ampliación de estudios de los plasmas usados por la técnica de erosión iónica reactiva con magnetrón (reactive magnetrón sputtering).	STEPHEN MUHL SAUNDERS	Recursos PAPIIT	01-01-2023	31-12-2025

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Atrapamiento de los electrones y la distribución del depósito producido por sputtering con magnetrón	Tesis de Maestría	STEPHEN MUHL SAUNDERS,	Salguero Martínez, Kassandra,	Instituto de Investigaciones en Materiales,	2022
2	Diseño y síntesis de materiales multifuncionales : capacitor estructural	Tesis de Maestría	DOROTEO MENDOZA LOPEZ,	STEPHEN MUHL SAUNDERS, PEDRO ROQUERO TEJEDA, et al.	Facultad de Química, Instituto de Investigaciones en Materiales,	2021
3	Mediciones de desgaste bajo diferentes condiciones de humedad relativa	Tesis de Maestría	STEPHEN MUHL SAUNDERS,	Rojo Blanco, Celia Luz,	Instituto de Investigaciones en Materiales,	2019
4	Caracterización y estudio de la tribocorrosión de películas delgadas de óxido de titanio hechas por sputtering con magnetrón y tratamiento térmico	Tesis de Licenciatura	STEPHEN MUHL SAUNDERS,	Sil Álvarez, Isaac Alán,	Instituto de Investigaciones en Materiales,	2017

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5	Caracterización estructural, óptica y mecánica del oxinitruro de silicio formado espontáneamente durante el depósito de nitruro de silicio por ablación laser pulsada	Tesis de Doctorado	STEPHEN MUHL SAUNDERS,	Restrepo Paruma, Johans Steeven,	Instituto de Investigaciones en Materiales,	2017
6	Estudio de la variación del rendimiento de la pulverización catódica para la formación de películas delgadas metálicas y bimetálicas	Tesis de Doctorado	EDUARDO ANDRADE IBARRA,	STEPHEN MUHL SAUNDERS, Cruz Cárdenas, Julio César,	Instituto de Física, Instituto de Investigaciones en Materiales,	2017
7	Transferencia de carga y modificación de las propiedades ópticas y electrónicas de grafeno y multicapas de grafeno	Tesis de Doctorado	DOROTEO MENDOZA LOPEZ,	STEPHEN MUHL SAUNDERS, ROBERTO YSACC SATO BERRU, et al.	Centro de Ciencias Aplicadas y Desarrollo Tecnológico, Instituto de Investigaciones en Materiales,	2016
8	Síntesis y caracterización de nanomateriales híbridos de carbono	Tesis de Doctorado	STEPHEN MUHL SAUNDERS,	Ramírez Calera, Itzel Jazmín,	Instituto de Investigaciones en Materiales,	2016
9	Síntesis de nanopartículas metálicas mediante un sistema de arco pulsado sumergido	Tesis de Licenciatura	STEPHEN MUHL SAUNDERS,	Rojo Blanco, Celia Luz,	Instituto de Investigaciones en Materiales,	2016
10	Propiedades tribológicas de recubrimientos utilizando pruebas de micro abrasión con sensores de profundidad y fuerza lateral	Tesis de Maestría	STEPHEN MUHL SAUNDERS,	Márquez Jurado, Idalia,	Instituto de Investigaciones en Materiales,	2015
11	Películas delgadas de Ni-Fe producidas por sputtering en cátodo hueco	Tesis de Doctorado	STEPHEN MUHL SAUNDERS,	López Yepez, Wendi Olga,	Instituto de Investigaciones en Materiales,	2015
12	Síntesis de bismuto nano-estructurado por cátodo hueco planar toroidal	Tesis de Maestría	STEPHEN MUHL SAUNDERS,	Tenorio Luna, Andrés,	Instituto de Investigaciones en Materiales,	2014

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13	Estudio de propiedades tribológicas de recubrimientos duros depositados por magnetron sputtering	Tesis de Maestría	STEPHEN MUHL SAUNDERS,	Restrepo Paruma, Johans Steeven,	Instituto de Investigaciones en Materiales,	2012
14	Caracterización de los depósitos producidos por un sistema de descarga de arco con ánodo refractario caliente cilíndrico (chrava)	Tesis de Maestría	STEPHEN MUHL SAUNDERS,	Camps Balabanov, Ivan,	Instituto de Investigaciones en Materiales,	2012
15	Estudios de produccion de nanotubos de carbono por arco eléctrico y CVD	Tesis de Maestría	STEPHEN MUHL SAUNDERS,	Pizano Montoya, Omar,	Instituto de Investigaciones en Materiales,	2010
16	Síntesis de nanotubos de carbono por depósito químico en fase vapor	Tesis de Licenciatura	STEPHEN MUHL SAUNDERS,	Ramírez Calera, Itzel Jazmín,	Instituto de Investigaciones en Materiales,	2010
17	Análisis del desgaste y la resistencia a la fatiga estática del vidrio recubierto con una película delgada de óxido de niobio	Tesis de Licenciatura	STEPHEN MUHL SAUNDERS,	González Zavala, Patricia,	Instituto de Investigaciones en Materiales,	2009
18	Medicion de la absorcion optica en plasmas	Tesis de Licenciatura	STEPHEN MUHL SAUNDERS,	Cortés Rubio, Manuel,		2005
19	Preparacion de carbono nanoestructurado por medio de un arco electrico	Tesis de Licenciatura	STEPHEN MUHL SAUNDERS,	Pizano Montoya, Omar,		2005
20	Multicapas de TiN/Ti depositadas por espurreo asistido con campos magneticos variables	Tesis de Doctorado	STEPHEN MUHL SAUNDERS,	Flores Martinez, Martin,		2004
21	Preparacion de nanoestructuras de carbono	Tesis de Maestría	STEPHEN MUHL SAUNDERS,	Maya Romero, Fermin,		2004
22	Preparacion de peliculas delgadas de carbono por medio de un arco electrico	Tesis de Licenciatura	STEPHEN MUHL SAUNDERS,	Maya Romero, Fermin,		2002

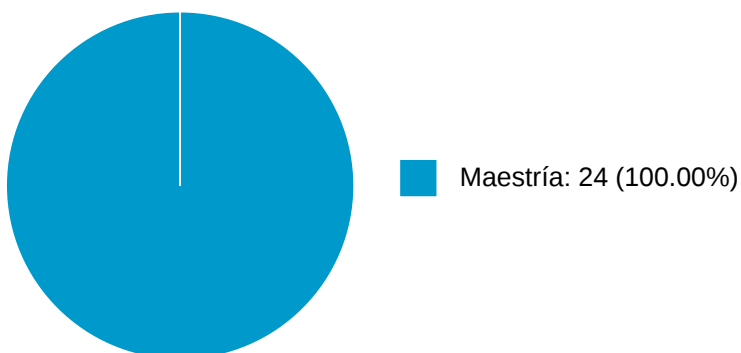
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23	Síntesis y caracterización de películas delgadas de nitruro de boro y nitruro de carbono preparadas por espurreo reactivo con magnetron	Tesis de Doctorado	STEPHEN MUHL SAUNDERS,	Gaona Couto, Adriana,	2001
24	Preparación, caracterización y estructura electrónica de algunos semiconductores de brecha amplia	Tesis de Doctorado	STEPHEN MUHL SAUNDERS,	LUIS ENRIQUE SANSORES CUEVAS, Mahmmod Begum, Arshad,	2000
25	Preparación y caracterización de películas duras por medio del sistema de espurreo reactivo magnetron	Tesis de Licenciatura	STEPHEN MUHL SAUNDERS,	Castronovo Solana, Francesco, Ponce Rico, Amadeo,	1992
26	Estudios de vacío y una aplicación para sistemas de depósito asistidos por plasma	Tesis de Licenciatura	STEPHEN MUHL SAUNDERS,	Orduña Mata, Ramiro Benjamin,	1991
27	Dióxido de silicio depositado por plasma a partir de una nueva mezcla de gases	Tesis de Doctorado	STEPHEN MUHL SAUNDERS,	Alonso Huitrón, Juan Carlos,	1991
28	Simulador electrónico de modos de vibración de átomos en moléculas	Tesis de Licenciatura	STEPHEN MUHL SAUNDERS,	Magaña Araujo, Vinicio Mariano,	1982

STEPHEN MUHL SAUNDERS

DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	TEMAS SELECTOS DE MATERIALES ELECTRÓNICOS CIENCIA E INGENIERÍA DE VACÍO Y SU APLICACIÓN EN LA SÍNTESIS Y CARACTERIZACIÓN DE MATERIALES	Instituto de Investigaciones en Materiales	2	2024-1
2	Maestría	TEMAS SELECTOS DE MATERIALES ELECTRÓNICOS PROPIEDADES Y CARACTERIZACIÓN DE PELÍCULAS DELGADAS	Instituto de Investigaciones en Materiales	0	2023-2
3	Maestría	TEMAS SELECTOS DE MATERIALES ELECTRÓNICOS CIENCIA E INGENIERÍA DE VACÍO Y SU APLICACIÓN EN LA SÍNTESIS Y CARACTERIZACIÓN DE MATERIALES	Instituto de Investigaciones en Materiales	0	2023-2
4	Maestría	TEMAS SELECTOS DE MATERIALES ELECTRÓNICOS	Instituto de Investigaciones en Materiales	0	2022-2
5	Maestría	TEMAS SELECTOS DE MATERIALES ELECTRÓNICOS	Instituto de Investigaciones en Materiales	1	2022-1
6	Maestría	TEMAS SELECTOS DE MATERIALES ELECTRÓNICOS PROPIEDADES Y CARACTERIZACIÓN DE PELÍCULAS DELGADAS	Instituto de Investigaciones en Materiales	2	2021-1

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7	Maestría	TEMAS SELECTOS DE MATERIALES ELECTRÓNICOS PROPIEDADES Y CARACTERIZACION DE PELICULAS DELGADAS	Instituto de Investigaciones en Materiales	2	2020-2
8	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRÓNICOS PROPIEDADES Y CARACTERIZACIÓN DE PELÍCULAS DELGADAS	Instituto de Investigaciones en Materiales	2	2020-1
9	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRÓNICOS PROPIEDADES Y CARACTERIZACIÓN DE PELÍCULAS DELGADAS	Instituto de Investigaciones en Materiales	1	2019-1
10	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS,PROPIEDADES Y CARACTERIZACIÓN DE PELÍCULAS DELGADAS	Instituto de Investigaciones en Materiales	2	2018-2
11	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS,PROPIEDADES Y CARACTERIZACIÓN DE PELÍCULAS DELGADAS	Instituto de Investigaciones en Materiales	2	2018-1
12	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS-304491	Instituto de Investigaciones en Materiales	2	2017-1
13	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS	Instituto de Investigaciones en Materiales	2	2016-2
14	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS	Instituto de Investigaciones en Materiales	5	2015-2
15	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS	Instituto de Investigaciones en Materiales	1	2015-1
16	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS	Instituto de Investigaciones en Materiales	3	2014-2
17	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS	Instituto de Investigaciones en Materiales	4	2012-2
18	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS	Instituto de Investigaciones en Materiales	5	2012-1

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19	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS	Instituto de Investigaciones en Materiales	3	2011-2
20	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS (OPTATIVA)	Instituto de Investigaciones en Materiales	1	2010-2
21	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS (OPTATIVA)	Instituto de Investigaciones en Materiales	2	2010-1
22	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS (OPTATIVA)	Instituto de Investigaciones en Materiales	1	2009-2
23	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS (OPTATIVA)	Instituto de Investigaciones en Materiales	1	2009-1
24	Maestría	TEMAS SELECTOS DE DISPOSITIVOS ELECTRONICOS (OPTATIVA)	Instituto de Investigaciones en Materiales	1	2008-1



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



STEPHEN MUHL SAUNDERS

PATENTES

#	Título	Inventores	Sección	Año
1	DISPOSITIVO PARA COMPARAR LA INTENSIDAD DE UN (N) HAZ (HACES) DE LUZ DE INSPECCION, RESPECTO A OTRO DE REFERENCIA.	STEPHEN MUHL SAUNDERS, MANUEL CORTES RUBIO,	PHYSICS	2010

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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