



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



DANIEL AGUIRRE AGUIRRE

Datos Generales

Nombre: DANIEL AGUIRRE AGUIRRE

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 9 años

Nombramientos

Vigente: INVESTIGADOR TITULAR A TC No Definitivo
Instituto de Ciencias Aplicadas y Tecnología
Desde 16-04-2024

Estímulos, programas, premios y reconocimientos

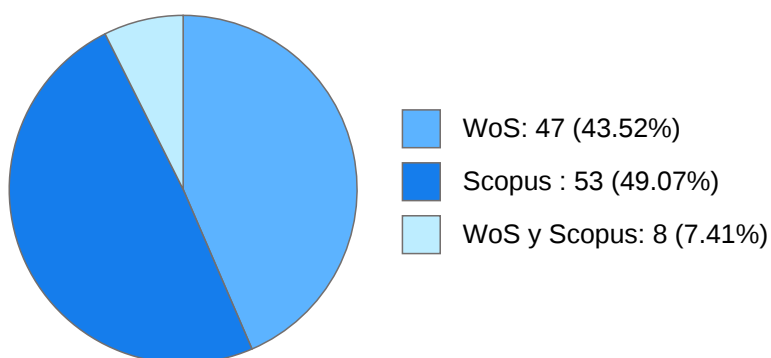
SNI I 2022 - VIGENTE
SNI C 2016 - 2021
PRIDE C 2021 - 2024
EQUIVALENCIA PRIDE B 2016 - 2020

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DANIEL AGUIRRE AGUIRRE

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Modeling, fabrication, and metrology of 3D printed Alvarez lenses prototypes	DULCE MARIA GONZALEZ UTRERA JOSE RUFINO DIAZ URIBE DANIEL AGUIRRE AGUIRRE et al.	OPTICS EXPRESS	2024
2	Corneal topographer using null-screen patterned within a quadrangular acrylic prism	MARTIN ISAIAS RODRIGUEZ RODRIGUEZ DULCE MARIA GONZALEZ UTRERA DANIEL AGUIRRE AGUIRRE et al.	OPTICS CONTINUUM	2024
3	Qualitative evaluation of a parabolic mirror with substructured Ronchi gratings	MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE VICTOR IVAN MORENO OLIVA et al.	REVISTA MEXICANA DE FISICA	2024
4	Corneal topography using a smartphone-based corneal topographer considering a biconical model for the corneal surface	MANUEL CAMPOS GARCIA OLIVER HUERTA CARRANZA VICTOR IVAN MORENO OLIVA et al.	Optics Continuum	2024
5	Fabrication of biconvex spherical and aspherical lenses using 3D printing	DANIEL AGUIRRE AGUIRRE DULCE MARIA GONZALEZ UTRERA JOSE RUFINO DIAZ URIBE et al.	APPLIED OPTICS	2023

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6	Conical null-screen design for evaluating fast free-form convex surfaces	MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE Bautista-Clemente F.J. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2023
7	Design and fabrication of a lightweight 3D first surface mirror aluminized by DC magnetron sputtering	DANIEL AGUIRRE AGUIRRE Bautista-Hernández A.M. Villalobos-Mendoza B. et al.	APPLIED OPTICS	2023
8	Study and characterization of components fabricated in a 3D printer	DANIEL AGUIRRE AGUIRRE Bautista Hernández A. Villalobos Mendoza B. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2022
9	Conical null-screen design for evaluating a biconical surface using a smartphone-based corneal topographer	MANUEL CAMPOS GARCIA OLIVER HUERTA CARRANZA LUIS ANGEL PANTOJA ARREDONDO et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2022
10	Improved quantitative testing of a non-symmetric convex surface using a conical null-screen	MANUEL CAMPOS GARCIA OLIVER HUERTA CARRANZA DANIEL AGUIRRE AGUIRRE et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2022
11	Smartphone-based corneal topography with null-screens	OLIVER HUERTA CARRANZA MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE et al.	APPLIED OPTICS	2022
12	Measurements of corneal topography using a compact null-screen corneal topographer with a mobile device	MANUEL CAMPOS GARCIA LUIS ANGEL PANTOJA ARREDONDO DANIEL AGUIRRE AGUIRRE et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2021

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13	Improvements in the evaluation of parabolic trough solar collector using a dynamic flat null-screen	OLIVER HUERTA CARRANZA MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2021
14	Measurement of a highly freeform surface using a cylindrical null-screen	OLIVER HUERTA CARRANZA MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2021
15	Measurement and correction of misalignments in corneal topography using the null-screen method	MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE OLIVER HUERTA CARRANZA et al.	OPTICS CONTINUUM	2021
16	Null-screen testing of the complementary freeform surfaces of an adjustable focus lens	DULCE MARIA GONZALEZ UTRERA DANIEL AGUIRRE AGUIRRE JOSE RUFINO DIAZ URIBE et al.	OPTICS EXPRESS	2021
17	Design of a compact corneal topographer to characterize the shape of the cornea	MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE ANDRES PEÑA CONZUELO et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2021
18	Analysis of the systematic and random errors in the conical corneal Null-Screen Topographer	ANDRES PEÑA CONZUELO MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2021
19	Stability analysis of silver nanoparticle suspensions by cyclic voltammetry	JUAN MANUEL NAVARRETE TEJERO RODRIGO MAYEN MONDRAGON ROBERTO YSACC SATO BERRU et al.	APPLIED OPTICS	2020
20	Null-screen design for highly freeform surface testing	DANIEL AGUIRRE AGUIRRE JOSE RUFINO DIAZ URIBE MANUEL CAMPOS GARCIA et al.	OPTICS EXPRESS	2020

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21	Precision Glass Molded Lenses Analysis via Null-Screen Test	DANIEL AGUIRRE AGUIRRE JOSE RUFINO DIAZ URIBE MANUEL CAMPOS GARCIA et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2019
22	Design of a null-screen for a compact corneal topographer	MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE ANDRES PEÑA CONZUELO et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2019
23	Interferometric measurement of local radii of curvature for aspheric surface using a PDI	FERMIN SALOMON GRANADOS AGUSTIN DANIEL AGUIRRE AGUIRRE Maria Elizabeth Percino-Zacarias et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2019
24	Off-axis conic surfaces: Interferogram simulation algorithm and its use in stressed mirror polishing	DANIEL AGUIRRE AGUIRRE Izazaga R. Villalobos-Mendoza B.	OPTICS AND LASER TECHNOLOGY	2019
25	General equations for the null-screen test for aspherical surfaces with deformation coefficients	DANIEL AGUIRRE AGUIRRE MANUEL CAMPOS GARCIA JOSE RUFINO DIAZ URIBE et al.	APPLIED OPTICS	2018
26	Study of the factors that affect the correlation behavior during the evaluation of interferograms	DANIEL AGUIRRE AGUIRRE Villalobos-Mendoza B. Granados-Agustín F.	OPTICAL ENGINEERING	2018
27	Obtaining the topography of human corneas with the null-screen testing method	MANUEL CAMPOS GARCIA VICTOR DE EMANUEL ARMENGOL CRUZ DANIEL AGUIRRE AGUIRRE et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2018
28	Characterization of the microlithography and mercury drop methods to generate PDI's	DANIEL AGUIRRE AGUIRRE Zenteno-Hernández J.A. Jazh@inaoep.mx et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2018

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29	Characterization of a transmissive spatial light modulator using four different wavelengths	DANIEL AGUIRRE AGUIRRE Perez-Esquivel N. Granados-Agustín F.S. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2018
30	MEGARA optics: Sub-aperture stitching interferometry for large surfaces	DANIEL AGUIRRE AGUIRRE Esperanza Carrasco Rafael Izazaga-Perez et al.	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC	2018
31	MEGARA Optics: stain removal in PBM2Y prisms	DANIEL AGUIRRE AGUIRRE Izazaga-Perez, R. Villalobos-Mendoza, B. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2017
32	Improvement of the method of optical testing of fast aspherical surfaces with null-screens	MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE VICTOR DE EMANUEL ARMENGOL CRUZ	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2017
33	Fast conical surfaces evaluation with null-screens and randomized algorithms	JOSE RUFINO DIAZ URIBE MANUEL CAMPOS GARCIA OLIVER HUERTA CARRANZA et al.	APPLIED OPTICS	2017
34	Condenser Lens Evaluation Using the Null-Screens Test	DANIEL AGUIRRE AGUIRRE JOSE RUFINO DIAZ URIBE MANUEL CAMPOS GARCIA et al.	Optics InfoBase Conference Papers	2017
35	Polishing techniques for MEGARA pupil elements optics	DANIEL AGUIRRE AGUIRRE Izazaga, R. Carrasco, E. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2016
36	Phase shifting interferometry using a spatial light modulator to measure optical thin films	DANIEL AGUIRRE AGUIRRE VillalobosMendoza, Brenda GranadosAgustin, Fermin S. et al.	APPLIED OPTICS	2015
37	Obtaining the curve "phase shift vs gray level" of a spatial light modulator Holoeye LC2012	DANIEL AGUIRRE AGUIRRE Villalobos-Mendoza B. Granados-Agustín F.S. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2015

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38	Null Ronchi gratings as a function of period	DANIEL AGUIRRE AGUIRRE Granados-Agustín F.S. Izazaga-Pérez R. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2015
39	Finite element analysis to evaluate optical mirror deformations	DANIEL AGUIRRE AGUIRRE Izazaga-Pérez R. Villalobos-Mendoza B.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2015
40	A simple device for sub-aperture stitching of fast convex surfaces	DANIEL AGUIRRE AGUIRRE Izazaga-Pérez R. Villalobos-Mendoza B. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2015
41	Cutting and shaping operations for optical glasses	DANIEL AGUIRRE AGUIRRE Izazaga-Pérez R. Carrasco-Licea E. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2015
42	Obtaining the wavefront phase maps of free form surfaces: Using the least squares algorithm	DANIEL AGUIRRE AGUIRRE Villalobos-Mendoza B. Granados-Agustín F. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2015
43	Substructured Ronchi gratings from the linear combination of classical gratings	MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE Villalobos-Mendoza, Brenda et al.	OPTICAL ENGINEERING	2014
44	Algorithm for Ronchigram recovery with random aberrations coefficients	DANIEL AGUIRRE AGUIRRE Izazaga-Pérez R. Granados-Agustín F.S. et al.	OPTICAL ENGINEERING	2013
45	MEGARA developments at LICA-UCM	DANIEL AGUIRRE AGUIRRE Zamorano J. Gil De Paz A. et al.	REVISTA MEXICANA DE ASTRONOMIA Y ASTROFISICA, SERIE DE CONFERENCIAS	2013

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46	Off-axis mirror fabrication from spherical surfaces under mechanical stress	DANIEL AGUIRRE AGUIRRE Izazaga-Pérez R. Percino-Zacarías M.E. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2013
47	Simulation algorithm for ronchigrams of spherical and aspherical surfaces, with the lateral shear interferometry formalism	DANIEL AGUIRRE AGUIRRE Izazaga-Pérez R. Percino-Zacarías M.E. et al.	OPT REV	2013
48	Liquid Crystal Display for phase shifting	DANIEL AGUIRRE AGUIRRE Villalobos-Mendoza B. Granados-Agustín F.S. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2013
49	New method for sub-structured Ronchi rulings generation and his irradiance profile	MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE Granados-Agustín F.S. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2013
50	Accuracy of the ReRRCA algorithm using the Ronchi test	DANIEL AGUIRRE AGUIRRE Granados-Agustín F.S. Villalobos-Mendoza B. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2012
51	Evaluation of the increment of the sampling in optical testing using substructured Ronchi gratings	MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE Granados-Agustín F.S. et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2011
52	Ronchigram analysis based on effective wavelength techniques and wavefront slope	MANUEL CAMPOS GARCIA DANIEL AGUIRRE AGUIRRE Granados-Agustín F.S. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2011



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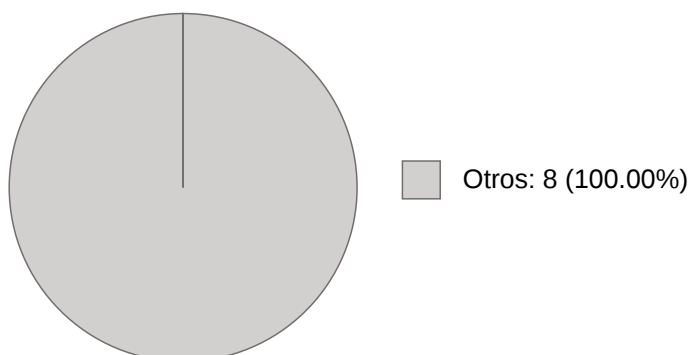
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53	Obtaining the wavefront in the Ronchi test using only one Ronchigram with random coefficients of aberration	DANIEL AGUIRRE AGUIRRE Granados-Agustín F.S. Cornejo-Rodríguez A.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2011
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DANIEL AGUIRRE AGUIRRE

LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	Optical characterization of a reverse geometry contact lens	MARTIN ISAIAS RODRIGUEZ RODRIGUEZ MARCELA LOPEZ DE LA CRUZ DANIEL AGUIRRE AGUIRRE et al.	Conferenc e Paper	2024	9781957171418
2	Dynamic Null-Screen Test	DULCE MARIA GONZALEZ UTRERA JOSE RUFINO DIAZ URIBE MANUEL CAMPOS GARCIA et al.	Conferenc e Paper	2023	9781957171296
3	Fabrication of Alvarez Lenses Prototypes Using a 3D Printer	DULCE MARIA GONZALEZ UTRERA DANIEL AGUIRRE AGUIRRE Villalobos-Mendoza B.	Conferenc e Paper	2022	9781557528209
4	Biconvex Lens Fabrication Using a 3D Printer	DANIEL AGUIRRE AGUIRRE DULCE MARIA GONZALEZ UTRERA MANUEL CAMPOS GARCIA et al.	Conferenc e Paper	2022	9781557528209
5	Study of the Correlation Behavior in the Null-Screen Test	DANIEL AGUIRRE AGUIRRE DULCE MARIA GONZALEZ UTRERA MANUEL CAMPOS GARCIA et al.	Conferenc e Paper	2022	9781557528209

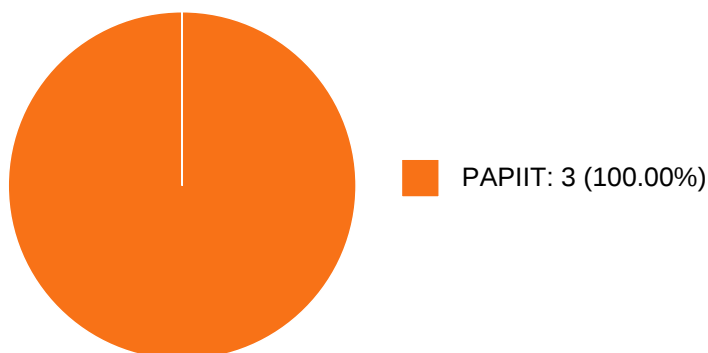
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6	Alternative method to design null-screens for testing freeform surfaces	DULCE MARIA GONZALEZ UTRERA DANIEL AGUIRRE AGUIRRE JOSE RUFINO DIAZ URIBE	Conferenc e Paper	2020	9781557528209
7	Null-Screen design for freeform surface testing	DANIEL AGUIRRE AGUIRRE JOSE RUFINO DIAZ URIBE MANUEL CAMPOS GARCIA et al.	Conferenc e Paper	2019	9781943580606
8	Condenser lens evaluation using the null-screens test	DANIEL AGUIRRE AGUIRRE JOSE RUFINO DIAZ URIBE MANUEL CAMPOS GARCIA et al.	Conferenc e Paper	2017	9781557528209

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Sistema de medición de objetos reflectores utilizados en la industria automotriz basado en la prueba de pantallas nulas y algoritmos probabilistas	DANIEL AGUIRRE AGUIRRE	Recursos PAPIIT	01-01-2017	31-12-2018
2	Evaluación de superficies de forma libre.	DANIEL AGUIRRE AGUIRRE	Recursos PAPIIT	01-01-2019	31-12-2020
3	Evaluación de superficies ópticas de forma libre fabricadas mediante manufactura aditiva	DANIEL AGUIRRE AGUIRRE	Recursos PAPIIT	01-01-2021	31-12-2023



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PARTICIPACIÓN EN TESIS

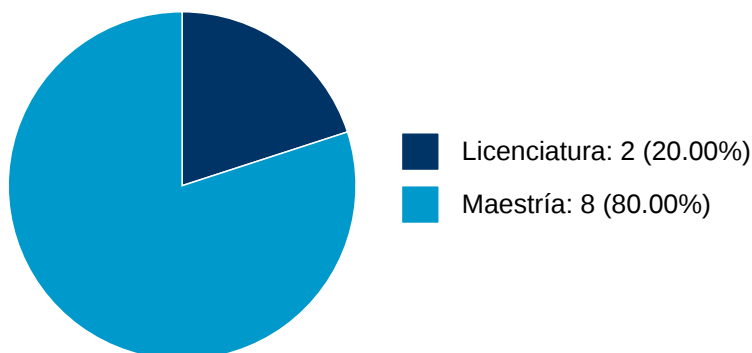
No se encuentran registros en la base de datos de TESIUNAM asociados a:

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN PRUEBAS ÓPTICAS	Facultad de Ingeniería	3	2024-2
2	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN PRUEBAS ÓPTICAS	Facultad de Ingeniería	1	2023-2
3	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN	Facultad de Ingeniería	0	2022-2
4	Licenciatura	OPTICA	Facultad de Ciencias	1	2022-2
5	Licenciatura	OPTICA	Facultad de Ciencias	8	2022-1
6	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN	Facultad de Ingeniería	1	2022-1
7	Maestría	TEMAS SELECTOS DE INSTRUMENTACIÓN PRUEBAS OPTICAS	Facultad de Ingeniería	2	2021-2
8	Maestría	MATEMÁTICAS APLICADAS	Facultad de Química	1	2020-1
9	Maestría	MATEMATICAS APLICADAS	Facultad de Química	2	2019-1
10	Maestría	MATEMATICAS APLICADAS	Facultad de Química	1	2018-2



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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