



ROBERTO ORTEGA MARTINEZ

Datos Generales

Nombre: ROBERTO ORTEGA MARTINEZ

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 41 años

Nombramientos

Último: INVESTIGADOR TITULAR C TC Definitivo
Centro de Ciencias Aplicadas y Desarrollo
Tecnológico
Desde 16-11-2008 hasta 15-11-2014
PROFESOR ASIGNATURA B TP Definitivo
Facultad de Ciencias
Desde 01-01-2009 hasta 15-11-2014

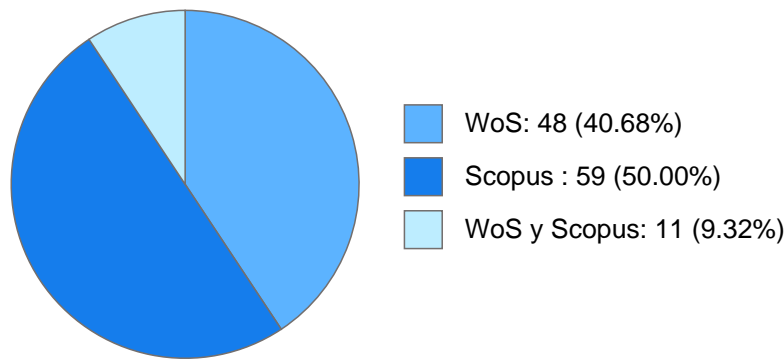
Estímulos, programas, premios y reconocimientos

SNI II - 2016
PRIDE Fijo 2014
PRIDE C 2014
PRIDE D 2009 - 2014
PRIDE C - 2009

ROBERTO ORTEGA MARTINEZ

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Heat transport considerations in the mathematical analysis of the photoacoustic and photothermal effects	EDAHI ANTONIO GUTIERREZ REYES CRESCENCIO GARCIA SEGUNDO AUGUSTO GARCIA VALENZUELA et al.	Journal Of Physics Communications	2019
2	The 4 January 2006 (M-w 6.6), San Pedro Martir Earthquake: Example of an Earthquake for Calibrating Excitation and Attenuation Studies	LUIS QUINTANAR ROBLES ROBERTO ORTEGA MARTINEZ Hector E. Rodriguez-Lozoya et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2019
3	Automatic selection of dispersion curves based on a weighted probability scheme	ROBERTO ORTEGA MARTINEZ EDAHI ANTONIO GUTIERREZ REYES Huesca E. et al.	Seismological Research Letters	2019
4	Improved spatial resolution in time-resolved transillumination imaging using temporal extrapolation with the cumulant expansion solution to the transport equation	ELENA ORTIZ RASCON NEIL CHARLES BRUCE DAVIDSON ANTONIO ALFONSO RODRIGUEZ ROSALES et al.	REVISTA MEXICANA DE FISICA	2014
5	Direct inversion methods for spectral amplitude modulation of femtosecond pulses	JESUS DELGADO AGUILLON JESUS GARDUÑO MEJIA Juan Manuel Lopez Tellez et al.	REVIEW OF SCIENTIFIC INSTRUMENTS	2014
6	Spatial chirp in the focusing of few-optical-cycle pulses by a mirror	NEIL CHARLES BRUCE DAVIDSON MARTHA ROSETE AGUILAR JESUS GARDUÑO MEJIA et al.	JOURNAL OF MODERN OPTICS	2013

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7	Transient-thermo-reflectance for the study of surface carrier dynamics	JESUS GARDUÑO MEJIA CARLOS JESUS ROMAN MORENO OMAR GUILLERMO MORALES SAAVEDRA et al.	Optica Pura y Aplicada	2013
8	High speed femtosecond pulse characterization based on spectral interferometry	GUSTAVO CASTRO OLVERA JESUS GARDUÑO MEJIA MARTHA ROSETE AGUILAR et al.	Optica Pura y Aplicada	2013
9	Ultrashort laser pulse characterization techniques	ROBERTO ORTEGA MARTINEZ	Optica Pura y Aplicada	2013
10	Spatial resolution in time domain imaging for different phantom widths using the cumulant expansion solution to the transport equation	EDUARDO ORTIZ RASCON ANTONIO ALFONSO RODRIGUEZ ROSALES ROBERTO ORTEGA MARTINEZ et al.	Proceedings of SPIE	2013
11	Variation of spatial soliton in liquid crystals due change of polarization of the incident laser beam	ANTONIO ALFONSO RODRIGUEZ ROSALES CARLOS JESUS ROMAN MORENO ROBERTO ORTEGA MARTINEZ	Proceedings of SPIE	2013
12	Synthesis and overall nonlinear optical characterization of poly(hexa-2,4-diyne-1,6-dioxydibenzate) containing 2,2'-(4((4-nitrophenyl)ethynyl)phenylazane diyl)diethanol	OMAR GUILLERMO MORALES SAAVEDRA ROBERTO ORTEGA MARTINEZ ANTONIO ALFONSO RODRIGUEZ ROSALES et al.	MATERIALS CHEMISTRY AND PHYSICS	2012
13	Preparation and Z-Scan nonlinear optical characterization of Au/SiO ₂ - and Ag/SiO ₂ -supported nanoparticles dispersed in silica sonogel films	OMAR GUILLERMO MORALES SAAVEDRA RODOLFO ZANELLA SPECIA Viridiana Maturano Rojas et al.	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	2012
14	Effects of primary spherical aberration, coma, astigmatism and field curvature on the focusing of ultrashort pulses: homogenous illumination	MIGUEL ANGEL GONZALEZ GALICIA MARTHA ROSETE AGUILAR JESUS GARDUÑO MEJIA et al.	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION	2011
15	Effects of primary spherical aberration, coma, astigmatism, and field curvature on the focusing of ultrashort pulses: Gaussian illumination and experiment	MIGUEL ANGEL GONZALEZ GALICIA JESUS GARDUÑO MEJIA MARTHA ROSETE AGUILAR et al.	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION	2011

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16	Impact of dyes on the nonlinear optical response of liquid crystals implementing the Z-scan technique	ANTONIO ALFONSO RODRIGUEZ ROSALES ROBERTO ORTEGA MARTINEZ OMAR GUILLERMO MORALES SAAVEDRA	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2011
17	Third order effects generated by refractive lenses on sub 20 femtosecond optical pulses	FLOR CONCEPCION ESTRADA SILVA MARTHA ROSETE AGUILAR JESUS GARDUÑO MEJIA et al.	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2011
18	Effects of primary spherical aberration, coma, astigmatism, and field curvature on the focusing of ultrashort pulses: Gaussian illumination and experiment	MIGUEL ANGEL GONZALEZ GALICIA JESUS GARDUÑO MEJIA MARTHA ROSETE AGUILAR et al.	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION	2011
19	Design and construction of a compact Z-scan portable system	ANTONIO ALFONSO RODRIGUEZ ROSALES ROBERTO ORTEGA MARTINEZ CARLOS JESUS ROMAN MORENO et al.	Proceedings of SPIE	2011
20	Spectral-phase-influence-matrix to shape femtosecond pulses	GUSTAVO CASTRO OLVERA JESUS GARDUÑO MEJIA ROBERTO ORTEGA MARTINEZ et al.	Proceedings of SPIE	2011
21	Observation of the commutation between bright and dark spatial optical solitons	ANTONIO ALFONSO RODRIGUEZ ROSALES ROBERTO ORTEGA MARTINEZ OLEG KOLOKOLTSEV et al.	Proceedings of SPIE	2011
22	Nonlinear optical performance of poled liquid crystalline azo-dyes confined in SiO ₂ sonogel films	VICENTE TORRES ZUÑIGA OMAR GUILLERMO MORALES SAAVEDRA ERNESTO RIVERA GARCIA et al.	JOURNAL OF MODERN OPTICS	2010
23	Analytical method for calculating the electric field envelope of ultrashort pulses by approximating the wavenumber up to third order	MARTHA ROSETE AGUILAR JESUS GARDUÑO MEJIA FLOR CONCEPCION ESTRADA SILVA et al.	APPLIED OPTICS	2010
24	Optical Properties of Fluorinated Bent-Core Liquid Crystals Confined in Anodic Alumina Nanotubes	OMAR GUILLERMO MORALES SAAVEDRA MARIA ESTHER MATA ZAMORA FERNANDO GUILLERMO ONTIVEROS BARRERA et al.	MOLECULAR CRYSTALS AND LIQUID CRYSTALS	2010
25	Morphology, Linear and Nonlinear Optical Response of Octopolar Chromophores Embedded in a Silica Sonogel Matrix	VICENTE TORRES ZUÑIGA OMAR GUILLERMO MORALES SAAVEDRA JOSE OCOTLAN FLORES FLORES et al.	MOLECULAR CRYSTALS AND LIQUID CRYSTALS	2010

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26	Synthesis and electrical, spectroscopic and nonlinear optical properties of cobalt molecular materials obtained from $PcCo(CN)L$ ($L =$ ethylenediamine, 1,4-diaminebutane, 1,12-diam	OMAR GUILLERMO MORALES SAAVEDRA ANTONIO ALFONSO RODRIGUEZ ROSALES ROBERTO ORTEGA MARTINEZ et al.	MATERIALS CHEMISTRY AND PHYSICS	2010
27	Technology valuation of a scanning probe microscope developed at a university in a developing country	LUIS ROBERTO VEGA GONZALEZ NASER QURESHI OLEG KOLOKOLTSEV et al.	Technovation	2010
28	Preparation and photophysical properties of monomeric liquid-crystalline azo-dyes embedded in bulk and film SiO_2 -sonogel glasses	VICENTE TORRES ZUÑIGA OMAR GUILLERMO MORALES SAAVEDRA ERNESTO RIVERA GARCIA et al.	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	2010
29	Preparation and optical and electrical evaluation of bulk SiO_2 sonogel hybrid composites and vacuum thermal evaporated thin films prepared from molecular materials derived from	OMAR GUILLERMO MORALES SAAVEDRA FERNANDO GUILLERMO ONTIVEROS BARRERA VICENTE TORRES ZUÑIGA et al.	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2009
30	Preparation and morphological and optical characterization of azo-polymer-based SiO_2 sonogel hybrid composites	OMAR GUILLERMO MORALES SAAVEDRA FERNANDO GUILLERMO ONTIVEROS BARRERA VICENTE TORRES ZUÑIGA et al.	SMART MATERIALS AND STRUCTURES	2009
31	Aberration effects on femtosecond pulses generated by nonideal achromatic doublets	FLOR CONCEPCION ESTRADA SILVA JESUS GARDUÑO MEJIA MARTHA ROSETE AGUILAR et al.	APPLIED OPTICS	2009
32	Achromatic doublets using group indices of refraction	MARTHA ROSETE AGUILAR FLOR CONCEPCION ESTRADA SILVA CARLOS JESUS ROMAN MORENO et al.	LASER PHYSICS	2008
33	Morphological, optical, and nonlinear optical properties of fluorine-indium-doped zinc oxide thin films	OMAR GUILLERMO MORALES SAAVEDRA LUIS CASTAÑEDA AVIÑA J. GUADALUPE BAÑUELOS MUÑETON et al.	LASER PHYSICS	2008
34	Study of the recombination around the excitonic region of MBE $ZnSe : Cl$ thin films	A. E. Martinez Canton ROBERTO ORTEGA MARTINEZ Garcia-Rocha, Miguel et al.	MICROELECTRO N J	2008
35	Chlorine-substituted bent-core LC-based sono-gel hybrid materials: Synthesis and optical properties	OMAR GUILLERMO MORALES SAAVEDRA ROSALBA CASTAÑEDA GUZMAN JOSE OCOTLAN FLORES FLORES et al.	MOLECULAR CRYSTALS AND LIQUID CRYSTALS	2008

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36	Neither kerr nor thermal nonlinear response of dye doped liquid crystal characterized by the Z-scan technique	ANTONIO ALFONSO RODRIGUEZ ROSALES ROBERTO ORTEGA MARTINEZ Carrasco, M. L. Arroyo et al.	MOLECULAR CRYSTALS AND LIQUID CRYSTALS	2008
37	Bragg diffraction of optical guided waves by spin-dipole waves in double layer ferromagnetic wave guides	O. Cortes Perez CESAR LEONARDO ORDOÑEZ ROMERO ROBERTO ORTEGA MARTINEZ et al.	REVISTA MEXICANA DE FISICA	2008
38	Variation of nonlinear refractive index in dye-doped liquid crystals by local and nonlocal mechanisms	ANTONIO ALFONSO RODRIGUEZ ROSALES OMAR GUILLERMO MORALES SAAVEDRA CARLOS JESUS ROMAN MORENO et al.	OPTICAL MATERIALS	2008
39	Nanopositioning for Polarimetric Characterization	NASER QURESHI OLEG KOLOKOLTSEV ROBERTO ORTEGA MARTINEZ et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2008
40	Simultaneous exhibition of positive and negative nonlinear response of dye-doped liquid crystal with polarization dependence of the Z-scan technique	ANTONIO ALFONSO RODRIGUEZ ROSALES ROBERTO ORTEGA MARTINEZ CARLOS JESUS ROMAN MORENO et al.	LEOS Summer Topical Meeting	2008
41	Compression of ultrashort pulses by using refractive elements	MARTHA ROSETE AGUILAR JESUS GARDUÑO MEJIA ROBERTO ORTEGA MARTINEZ et al.	Proceedings of SPIE	2008
42	Deep level emission and electrical activity of chlorine in epitaxial ZnSe thin films	ROBERTO ORTEGA MARTINEZ Martínez-Cantón A.E. García-Rocha M. et al.	AIP Conference Proceedings	2007
43	Electrical and optical properties of Jäger-nickel (II)-based molecular-material thin films prepared by the vacuum thermal evaporation technique	OMAR GUILLERMO MORALES SAAVEDRA ARMANDO ORTIZ REBOLLO ROBERTO ORTEGA MARTINEZ et al.	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2007
44	Optical characterization of thermal-stress induced by spin waves in thin-film ferrimagnetic structures	OLEG KOLOKOLTSEV CESAR LEONARDO ORDOÑEZ ROMERO NASER QURESHI et al.	SOLID STATE COMMUNICATIONS	2007
45	Linear and non-linear optical properties of 2,5-disubstituted pyrroles supported by a catalyst-free SiO ₂ sonogel network	OMAR GUILLERMO MORALES SAAVEDRA ROBERTO ORTEGA MARTINEZ LIUDMILA FOMINA et al.	JOURNAL OF NON-CRYSTALLINE SOLIDS	2007
46	Ultra-short pulse lasers: Principles and applications	HONORIO CRUZ LOPEZ MARIA DE JESUS OROZCO ARELLANES ROBERTO ORTEGA MARTINEZ et al.	Proceedings of SPIE	2006

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47	Thermal quenching of the self-activated band of ZnSe:Cl thin films grown by molecular beam epitaxy	ROBERTO ORTEGA MARTINEZ Martínez-Cantón A.E. García-Rocha M. et al.	MICROELECTRO N J	2005
48	Ultrashort laser pulses characterization by three optical methods: Autocorrelation, optical interference and spectral analysis	CARLOS JESUS ROMAN MORENO ROBERTO ORTEGA MARTINEZ ANTONIO ALFONSO RODRIGUEZ ROSALES et al.	Proceedings of SPIE	2005
49	Synthesis, characterization and evaluation of nonlinear optical properties of chiral hydrobenzoin monomers	ROBERTO ORTEGA MARTINEZ Percino M.J. Chapela V.M.	DESIGNED MONOMERS AND POLYMERS	2004
50	The use of (R)-(+)- α -methylbenzylamine and (S)-(-)- α -methylbenzylamine as chiral moieties to obtain monomers for second harmonic generation crystals	ROBERTO ORTEGA MARTINEZ Chapela V.M. Percino M.J. et al.	JOURNAL OF MOLECULAR STRUCTURE	2003
51	Ultrashort pulse characterisation using a scanning Fabry-Perot etalon to rapidly acquire and retrieve a sonogram	ROBERTO ORTEGA MARTINEZ Cormack I.G. Sibbett W. et al.	Conference On Lasers And Electro-Optics Europe - Technical Digest	2001
52	Ultrashort pulse characterization using a scanning Fabry-Pérot étalon enabling rapid acquisition and retrieval of a sonogram at rates up to 1.52 Hz	ROBERTO ORTEGA MARTINEZ Cormack I.G. Sibbett W. et al.	REVIEW OF SCIENTIFIC INSTRUMENTS	2001
53	Ultrashort laser pulses: A comparison between a mathematical model and experimental data	ROBERTO ORTEGA MARTINEZ CARLOS JESUS ROMAN MORENO ANTONIO ALFONSO RODRIGUEZ ROSALES et al.	Proceedings of SPIE	2000
54	On the second order characterization of ultrashort pulses	ROBERTO ORTEGA MARTINEZ CARLOS JESUS ROMAN MORENO Kouznetsov D.	JOURNAL OF MODERN OPTICS	1999
55	On the second order characterization of ultrashort pulses	ROBERTO ORTEGA MARTINEZ CARLOS JESUS ROMAN MORENO Kouznetsov, D.	JOURNAL OF MODERN OPTICS	1999
56	Simulations of turbulence-induced phase and log-amplitude distortions	VALERY VOYTSEKHOVICH ROBERTO ORTEGA MARTINEZ D Kouznetsov	APPLIED OPTICS	1997
57	Laser-beam centering by the opaque wire method	JOSE RUFINO DIAZ URIBE ROBERTO ORTEGA MARTINEZ	Proceedings of SPIE	1996
58	The Cummings-Tavis model as a nonlinear quantum amplifier	ROBERTO ORTEGA MARTINEZ Kouznetsov-Kallistratova D.	QUANTUM SEMICL OPT	1995
59	Quantum noise limits for nonlinear, phase-invariant amplifiers	ROBERTO ORTEGA MARTINEZ Kouznetsov D. Rohrllich D.	PHYSICAL REVIEW A	1995



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Coordinación de Planeación, Evaluación y
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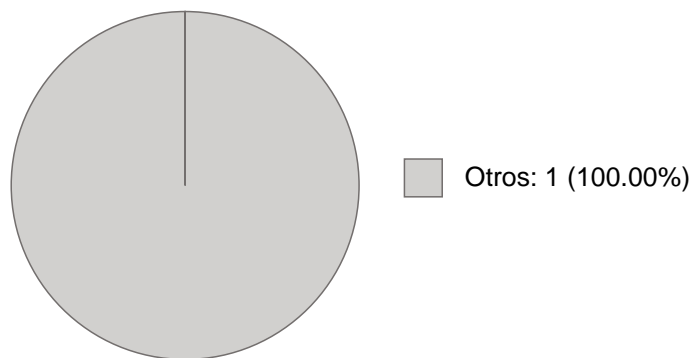
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60	Noise Limits for Nonlinear, Phase-invariant Amplifiers	ROBERTO ORTEGA MARTINEZ KOUZNETSOV, D. ROHRLICH, D.	ANNALS OF THE 1995 NEW YORK ACADEMY OF SCIENCES
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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	Diffuse light transmission profiles using time resolved imaging	EDUARDO ORTIZ RASCON NEIL CHARLES BRUCE DAVIDSON ANTONIO ALFONSO RODRIGUEZ ROSALES et al.	Conferencia e Paper	2014	9781557528254



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Coordinación de Planeación, Evaluación y
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Reporte individual



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PARTICIPACIÓN EN PROYECTOS

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

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Coordinación de Planeación, Evaluación y
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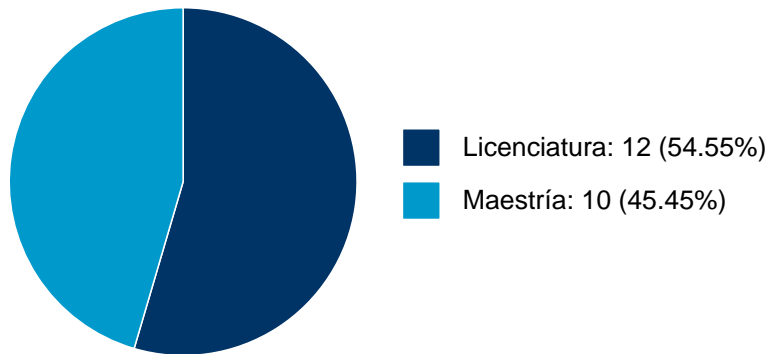
No se encuentran registros en la base de datos de TESIUNAM asociados a:

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	LASERES	Facultad de Ciencias	6	2014-2
2	Licenciatura	LASERES	Facultad de Ciencias	5	2014-1
3	Licenciatura	LASERES	Facultad de Ciencias	8	2013-2
4	Licenciatura	OPTICA DE FOURIER	Facultad de Ciencias	14	2013-2
5	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	8	2013-2
6	Licenciatura	LASERES	Facultad de Ciencias	6	2012-2
7	Licenciatura	LASERES	Facultad de Ciencias	5	2012-1
8	Maestría	TRABAJO DE INVESTIGACION I	Facultad de Ingeniería	1	2012-1
9	Maestría	PRINCIPIOS DE LASER Y SUS APLICACIONES	Centro de Ciencias Aplicadas y Desarrollo Tecnológico	2	2012-1
10	Maestría	TEMAS SELECTOS DE INSTRUMENTACION	Facultad de Ingeniería	6	2011-2
11	Licenciatura	LASERES	Facultad de Ciencias	5	2011-2
12	Maestría	PRINCIPIOS DE LASER Y SUS APLICACIONES	Centro de Ciencias Aplicadas y Desarrollo Tecnológico	2	2011-1
13	Maestría	TRABAJO DE INVESTIGACION I	Facultad de Ingeniería	1	2011-1
14	Maestría	TRABAJO DE INVESTIGACION II	Facultad de Ingeniería	1	2011-1
15	Maestría	PRINCIPIOS DE LASER Y SUS APLICACIONES	Centro de Ciencias Aplicadas y Desarrollo Tecnológico	1	2010-2



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16	Maestría	PRINCIPIOS DE LASER Y SUS APLICACIONES	Centro de Ciencias Aplicadas y Desarrollo Tecnológico	2	2010-2
17	Licenciatura	LASERES	Facultad de Ciencias	5	2010-2
18	Licenciatura	LASERES	Facultad de Ciencias	5	2010-1
19	Licenciatura	LASERES	Facultad de Ciencias	5	2009-2
20	Maestría	TEMA SELECTO	Centro de Ciencias Aplicadas y Desarrollo Tecnológico	1	2009-2
21	Licenciatura	LASERES	Facultad de Ciencias	4	2008-2
22	Licenciatura	LASERES	Facultad de Ciencias	8	2008-1



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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	2008-2024
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