



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



MARTIN DANIEL TREJO VALDEZ

Datos Generales

Nombre: MARTIN DANIEL TREJO VALDEZ

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 16 años

Nombramientos

Último: PROFESOR ASIGNATURA A TP No Definitivo
Facultad de Química
Desde 01-02-2018 hasta 15-04-2021

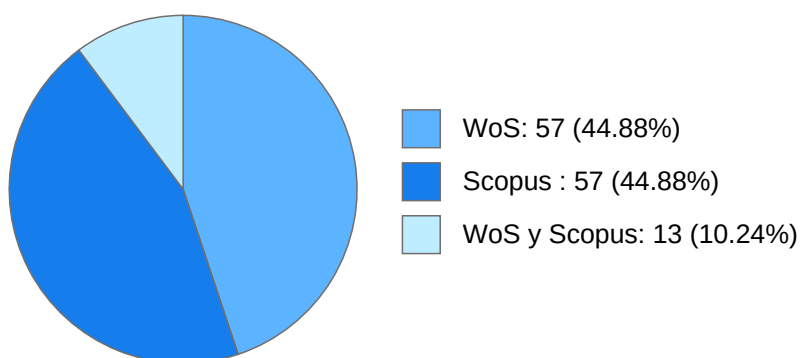
Estímulos, programas, premios y reconocimientos

SNI II 2018 - 2023
SNI I 2011 - 2017
SNI I 2008

MARTIN DANIEL TREJO VALDEZ

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	UV-Enhanced nonlinear optoelectronic features in iridium-doped tin oxide thin films	MARTIN DANIEL TREJO VALDEZ HUGO MARTIN SOBRAL Eric Abraham Hurtado-Aviles et al.	SEMICONDUCTOR SCIENCE AND TECHNOLOGY	2024
2	Catalytic oxidative desulfurization of 4,6-dimethyl dibenzothiophene by phosphotungstic acid loaded on Al ₂ O ₃ , V ₂ O ₅ , and ZrO ₂ oxides	MARTIN DANIEL TREJO VALDEZ Manríquez M.E. Ortiz A.L. et al.	REACTION KINETICS MECHANISMS AND CATALYSIS	2022
3	Photo-induced structured waves by nanostructured topological insulator Bi ₂ Te ₃	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Hurtado-Aviles E.A. et al.	OPTICS AND LASER TECHNOLOGY	2021
4	All-optical encryption by a heterodyne Kerr gate in multilayer reduced graphene oxide decorated with Pt nanoparticles	MARTIN DANIEL TREJO VALDEZ Mercado-Zúñiga C. Gallegos-García G. et al.	OPTICAL MATERIALS	2021
5	Navigation of silver/carbon nanoantennas in organic fluids explored by a two-wave mixing	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES García-Beltrán G. et al.	NANOMATERIALS	2020
6	Sequential photodamage driven by chaotic systems in nio thin films and fluorescent human cells	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Martines-Arano H. et al.	Processes	2020

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7	Dynamic compressibility and third-order optical nonlinearities in carbon/metal-based nanofluids	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES García-Beltrán G. et al.	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2020
8	Multipath data storage by third-order nonlinear optical properties in zinc oxide nanostructures	FEDERICO ORTIZ TREJO MARTIN DANIEL TREJO VALDEZ JOEL HUMBERTO CASTRO CHACON et al.	APPLIED SCIENCES-BASE L	2020
9	Acetylation of glycerol using MgO/CaO catalysts with different CaO loadings	MARTIN DANIEL TREJO VALDEZ Manríquez-Ramírez M.E. Elizalde I. et al.	REACTION KINETICS MECHANISMS AND CATALYSIS	2020
10	Chaotic signatures exhibited by plasmonic effects in Au nanoparticles with cells	MARTIN DANIEL TREJO VALDEZ Martínez-Arango H. García-Pérez B.E. et al.	SENSORS	2019
11	Optical phase-change in plasmonic nanoparticles by a two-wave mixing	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Hernández-Acosta M.A. et al.	PHYSICA SCRIPTA	2019
12	Twisted light by a Kerr-like TiO ₂ thin film with Au-Pt nanoparticles	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Martínez-Arango H. et al.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2019
13	Optofluidic and strain measurements induced by polarization-resolved nanosecond pulses in gold-based nanofluids	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES García-Merino J.A. et al.	Optik	2019
14	Laser-induced electrical signal filtering by multilayer reduced graphene oxide decorated with Au nanoparticles	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Jiménez-Marín E. et al.	OPTICS EXPRESS	2019
15	Decision making two-wave mixing with rotating TiO ₂ -supported Au-Pt nanoparticles	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Piña-Díaz A.J. et al.	OPTICS AND LASER TECHNOLOGY	2019
16	Ultrasonic influence on plasmonic effects exhibited by photoactive bimetallic Au-Pt nanoparticles suspended in ethanol	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Hurtado-Aviles E.A. et al.	Materials	2019
17	Quantum and bistable magneto-conductive signatures in multiwall carbon nanotubes decorated with bimetallic Ni and Pt nanoparticles driven by phonons	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES García-Merino J.A. et al.	OPTICS CONTINUUM	2019

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18	Dynamic and plasmonic response exhibited by Au nanoparticles suspended in blood plasma and cerebrospinal fluids	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Morales-Bonilla S. et al.	JOURNAL OF MOLECULAR LIQUIDS	2019
19	Chaotic signatures of photoconductive Cu ₂ ZnSnS ₄ nanostructures explored by Lorenz attractors	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES M. A. Hernandez-Acosta et al.	NEW JOURNAL OF PHYSICS	2018
20	Amplitude-modulated acoustic waves by nonlinear optical signals in bimetallic Au-Pt nanoparticles and ethanol based nanofluids	MARTIN DANIEL TREJO VALDEZ MARIA IRMA VILLALPANDO FIERRO CARLOS TORRES TORRES et al.	JOURNAL OF MOLECULAR LIQUIDS	2018
21	Nonlinear-optical switching in gold nanoparticles driven by magneto-optical effects exhibited by carbon nanotubes	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES García-Merino J.A. et al.	SENSORS AND ACTUATORS A-PHYSICAL	2018
22	XOR Logic Gate by Carbon/Metal Nanoinks Based on a Double-Stage Optical Kerr Gate Configuration	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES García-Merino J.A. et al.	ADVANCES IN CONDENSED MATTER PHYSICS	2018
23	Fractional and chaotic electrical signatures exhibited by random carbon nanotube networks	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Hernández-Acosta M.A. et al.	PHYSICA SCRIPTA	2018
24	Nonlinear mechano-optical effects and speckle fringe patterns exhibited by gold-platinum nanoparticles in cells	CARLOS TORRES TORRES MARTIN DANIEL TREJO VALDEZ García-Pérez B.E.	OPTICS, PHOTONICS, AND DIGITAL TECHNOLOGIES FOR IMAGING APPLICATIONS VIII	2018
25	Coexistence of positive and negative photoconductivity in nickel oxide decorated multiwall carbon nanotubes	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Jiménez-Marín, E. et al.	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2017
26	Contrast in the electrical and opto-electrical properties exhibited by randomly distributed networks and vertically aligned multi-wall carbon nanotubes	CARLOS TORRES TORRES MARTIN DANIEL TREJO VALDEZ Mercado-Zúñiga, C. et al.	JOURNAL OF NANOELECTRON ICS AND OPTOELECTRON ICS	2017

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27	Nonlinear mechano-optical transmittance controlled by a rotating TiO ₂ thin solid film with embedded bimetallic Au-Pt nanoparticles	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Piña-Díaz, A.J. et al.	JOURNAL OF NANOMATERIALS	2017
28	Acousto-plasmonic sensing assisted by nonlinear optical interactions in bimetallic Au-Pt nanoparticles	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Hurtado-Aviles E.A. et al.	MICROMACHINES	2017
29	Acousto-optic logic gate controlled by third-order nonlinear optical effects in bimetallic Au-Pt nanoparticles	MARTIN DANIEL TREJO VALDEZ Salcedo-Hernández L.F. Morales-Bonilla S. et al.	CURRENT NANOSCIENCE	2017
30	Encryption of nonlinear optical signals in ZnO:Al thin films by ultrashort laser pulses	MARTIN DANIEL TREJO VALDEZ Castro-Chacón, J.H. Torres-Torres, C. et al.	JOURNAL OF MODERN OPTICS	2017
31	Acoustically-controlled optical Kerr effect signals in bimetallic Au-Pt nanoparticles embedded in a TiO ₂ thin film	MARTIN DANIEL TREJO VALDEZ Navarro, A. Pava-Chipol, J. et al.	Optik	2017
32	Numerical evaluation of the structural integrity exhibited by a TiO ₂ thin solid film doped with Au	LIDIA HUGUETTE HERNANDEZ GOMEZ MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES et al.	Advanced Structured Materials	2017
33	Gyroscopic behavior exhibited by the optical Kerr effect in bimetallic Au-Pt nanoparticles suspended in ethanol	CARLOS TORRES TORRES MARTIN DANIEL TREJO VALDEZ LIDIA HUGUETTE HERNANDEZ GOMEZ et al.	JOURNAL OF NANOPARTICLE RESEARCH	2016
34	Interferometrically-controlled electrical currents in carbon nanotubes coated by platinum nanoparticles	MARTIN DANIEL TREJO VALDEZ Jiménez-Marín, E. Torres-Torres, C. et al.	OPTICS AND LASER TECHNOLOGY	2016
35	Magneto-conductivity and magnetically-controlled nonlinear optical transmittance in multi-wall carbon nanotubes	MARTIN DANIEL TREJO VALDEZ García-Merino, J.A. Martínez-González, C.L. et al.	OPTICS EXPRESS	2016
36	Mechano-optic logic gate controlled by third-order nonlinear optical properties in a rotating ZnO:Al thin film	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Carrillo-Delgado C. et al.	MATERIALS RESEARCH EXPRESS	2016
37	Exclusive-OR encryption by photoconduction and two-photon absorption in Carbon nanotubes	CARLOS TORRES TORRES NOEMI ROSA REBOLLO FRANCO LUIS CASTAÑEDA AVIÑA et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2015

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38	Photothermal, photoconductive and nonlinear optical effects induced by nanosecond pulse irradiation in multi-wall carbon nanotubes	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES García-Merino J.A. et al.	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2015
39	Mechano-optical transmittance and third order nonlinear optical properties exhibited by Au nanoparticles	CARLOS TORRES TORRES MARTIN DANIEL TREJO VALDEZ Morales-Bonilla S. et al.	Optik	2015
40	Optical Kerr effect exhibited by carbon nanotubes and carbon/metal nanohybrid materials	CARLOS TORRES TORRES NOEMI ROSA REBOLLO FRANCO MARTIN DANIEL TREJO VALDEZ et al.	PHYSICA E-LOW-DIMENSI ONAL SYSTEMS & NANOSTRUCTUR ES	2015
41	Bidirectional optical Kerr transmittance in a bilayer nanocomposite with Au nanoparticles and carbon nanotubes	MARTIN DANIEL TREJO VALDEZ NOEMI ROSA REBOLLO FRANCO CARLOS TORRES TORRES et al.	PHYSICA SCRIPTA	2015
42	Strain measurements exhibited by a steel prosthesis protected with au nanoparticles	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Hernández-Gómez L.H. et al.	Advanced Structured Materials	2014
43	Influence of silver decoration on the nonlinear optical absorption exhibited by multiwall carbon nanotubes	CARLOS TORRES TORRES MARTIN DANIEL TREJO VALDEZ Mercado-Zúñiga C. et al.	JOURNAL OF NANOPARTICLE RESEARCH	2014
44	Effect of the fluidized bed drying on the structure and biosorption capability of Pb+2 of agave epidermis [Efecto del secado por lecho fluidizado en la estructura y capacidad de biosorción de Pb+2 de epidermis de agave]	MARTIN DANIEL TREJO VALDEZ Hernández-Botello M.T. Chanona-Pérez J.J. et al.	REVISTA MEXICANA DE INGENIERIA QUIMICA	2014
45	Mechanooptic Regulation of Photoconduction in Functionalized Carbon Nanotubes Decorated with Platinum	CARLOS TORRES TORRES MARTIN DANIEL TREJO VALDEZ Mercado-Zuniga, C. et al.	INTERNATIONAL JOURNAL OF PHOTOENERGY	2014
46	Optoelectronic switching in a microstructure containing Au nanoparticles	CARLOS TORRES TORRES MARTIN DANIEL TREJO VALDEZ Torres-Torres, D. et al.	JOURNAL OF MODERN OPTICS	2014
47	Optoelectronic modulation by multi-wall carbon nanotubes	CARLOS TORRES TORRES MARTIN DANIEL TREJO VALDEZ MAURICIO TERRONES MALDONADO et al.	Nanotechnolog y	2013

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48	Identification of inhomogenous optical absorptive response by chaotic photonic signals in Au nanoparticles	CARLOS TORRES TORRES MARTIN DANIEL TREJO VALDEZ Munoz-Cesar, J. C. et al.	MEASUREMENT SCIENCE AND TECHNOLOGY	2013
49	Photoconductive logic gate based on platinum decorated carbon nanotubes	MARTIN DANIEL TREJO VALDEZ CARLOS TORRES TORRES Mercado-Zuniga, C. et al.	APPLIED OPTICS	2013
50	Mechano-optical modulation and optical limiting by multiwall carbon nanotubes	CARLOS TORRES TORRES MARTIN DANIEL TREJO VALDEZ Fera-Reyes, E. et al.	JOURNAL OF MODERN OPTICS	2013
51	Engineering the optical and mechanical properties exhibited by a titanium dioxide thin film with gold nanoparticles	CARLOS TORRES TORRES MARTIN DANIEL TREJO VALDEZ Morales-Bonilla, Samuel et al.	OPT APPL	2013
52	Optical absorptive response of platinum doped TiO ₂ transparent thin films with Au nanoparticles	CARLOS TORRES TORRES MARTIN DANIEL TREJO VALDEZ Campos-Lopez, J. P. et al.	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	2012
53	Participation of the Third Order Optical Nonlinearities in Nanostructured Silver Doped Zinc Oxide Thin Solid Films	CARLOS TORRES TORRES LUIS CASTAÑEDA AVIÑA MARTIN DANIEL TREJO VALDEZ et al.	JOURNAL OF NANOMATERIALS	2012
54	Synthesis of hectorite-TiO ₂ and kaolinite-TiO ₂ nanocomposites with photocatalytic activity for the degradation of model air pollutants	Daria Kibanova MARTIN DANIEL TREJO VALDEZ JAVIERA CERVINI SILVA et al.	APPLIED CLAY SCIENCE	2009
55	Synthesis and Growth Mechanism of One-Dimensional Zn/ZnO Core-Shell Nanostructures in Low-Temperature Hydrothermal Process	MARTIN DANIEL TREJO VALDEZ PATRICIA SANTIAGO JACINTO HUGO MARTIN SOBRAL et al.	CRYSTAL GROWTH & DESIGN	2009
56	GEOC 149-Siderophores catalyze the oxidation of commercial Pb to nanosized lead (hydr)oxides stable in water	Hilda Cornejo Garrido JAVIERA CERVINI SILVA MARIA DEL PILAR FERNANDEZ LOMELIN et al.	Abstracts Of Papers Of The American Chemical Society	2008
57	GEOC 204-Synthesis of clay-TiO ₂ nanocomposites with photocatalytic activity for the degradation of air pollutants	Daria Kibanova MARTIN DANIEL TREJO VALDEZ JAVIERA CERVINI SILVA et al.	Abstracts Of Papers Of The American Chemical Society	2008
58	dc and ac optical nulling bridges for sensitive transmittance measurements	MARTIN DANIEL TREJO VALDEZ AUGUSTO GARCIA VALENZUELA Argueta-Díaz V.	REVIEW OF SCIENTIFIC INSTRUMENTS	2000



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59 Electronically controlled optical
polarization evolution in carbon
nanotubes

MARTIN DANIEL TREJO VALDEZ
CARLOS TORRES TORRES
Hernández-Acosta M.A. et al.

MATHEMATICAL
METHODS IN THE
APPLIED
SCIENCES



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LIBROS Y CAPITULOS CON ISBN

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

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PARTICIPACIÓN EN PROYECTOS

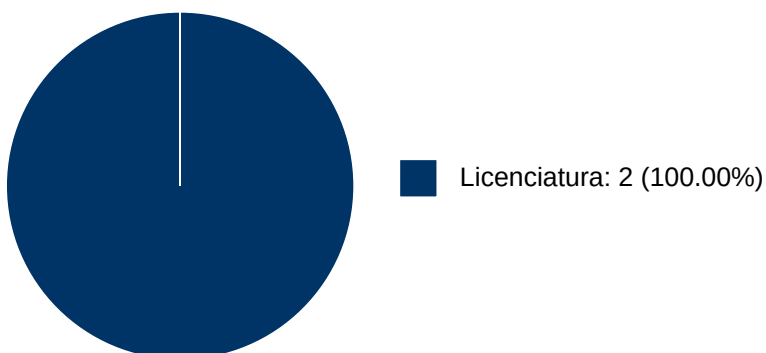
No se encuentran registros en la base de datos de SISEPRO asociados a:

MARTIN DANIEL TREJO VALDEZ

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis

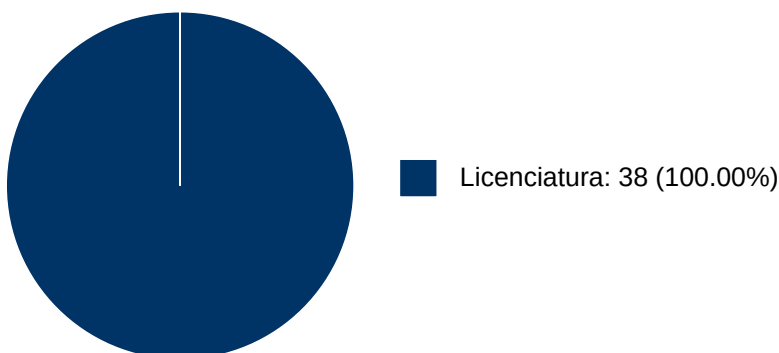


#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Estudio de materiales fotocatalíticos con aplicación potencial en el tratamiento de agua potable contaminada con arsénico	Tesis de Licenciatura	MARTIN DANIEL TREJO VALDEZ,	Moreno Bazán, Erika,	Facultad de Química,	2012
2	Elaboración de materiales semiconductores fotocatalíticos con potencial aplicación en remediación ambiental (tratamiento de agua)	Tesis de Licenciatura	MARTIN DANIEL TREJO VALDEZ,	León Ramos, José Antonio,	Facultad de Química,	2010

MARTIN DANIEL TREJO VALDEZ

DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	2	2021-1
2	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	16	2020-2
3	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	15	2020-1
4	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	15	2019-2
5	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	14	2019-1
6	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	11	2018-2
7	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	13	2018-1
8	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	15	2017-2
9	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	16	2017-1
10	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	15	2016-2
11	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	16	2016-2
12	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	13	2016-1
13	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	16	2015-2
14	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	15	2015-1
15	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	15	2014-2
16	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	15	2014-1
17	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	16	2013-2
18	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	16	2013-1
19	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	15	2012-2
20	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	15	2012-2
21	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	14	2012-1
22	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	3	2012-1
23	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	15	2011-2
24	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	15	2011-2

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25	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	14	2011-1
26	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	5	2011-1
27	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	13	2010-2
28	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	14	2010-2
29	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	12	2010-1
30	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	6	2010-1
31	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	13	2009-2
32	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	12	2009-2
33	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	15	2009-1
34	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	17	2009-1
35	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	15	2008-2
36	Licenciatura	ANALITICA EXPERIMENTAL II	Facultad de Química	16	2008-2
37	Licenciatura	ELECTROQUIMICA	Facultad de Química	34	2008-1
38	Licenciatura	ELECTROQUIMICA	Facultad de Química	9	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	2008-2025
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