



LUIS GERARDO RUIZ SUAREZ

Datos Generales

Nombre: LUIS GERARDO RUIZ SUAREZ

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 35 años

Nombramientos

Vigente: INVESTIGADOR TITULAR C TC Definitivo
Instituto de Ciencias de la Atmósfera y Cambio Climático
Desde 16-11-2022

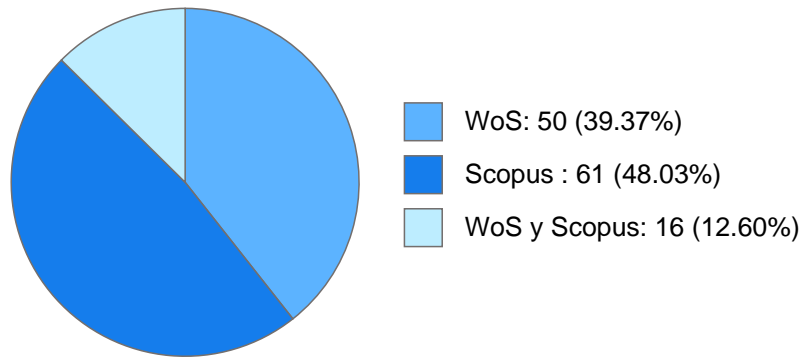
Estímulos, programas, premios y reconocimientos

SNI III 2017 - VIGENTE
SNI II - 2016
PRIDE C 2023 - 2024
PRIDE C - 2021

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	A simple and robust method for the comprehensive analysis of VOCs in liquid household products	LIDA ANDREA SOLORZANO GARCIA IVAN YASSMANY HERNANDEZ PANIAGUA GEMA LUZ ANDRACA AYALA et al.	ATMOSPHERIC POLLUTION RESEARCH	2025
2	Influence of biomass burning on ozone levels in the Megalopolis of Central Mexico during the COVID-19 lockdown	VICTOR HUGO ALMANZA VELOZ LUIS GERARDO RUIZ SUAREZ RICARDO TORRES JARDON et al.	JOURNAL OF ENVIRONMENTA L SCIENCES	2024
3	Carbonaceous particles and PM _{2.5} optical properties in Mexico City during the ACU15 campaign	NAXIELI SANTIAGO DE LA ROSA OSCAR AUGUSTO PERALTA ROSALES HARRY ALVAREZ OSPINA et al.	ATMOSFERA	2024
4	Characterization of PM _{2.5} during the ACU15 campaign in Mexico City	TELMA GLORIA CASTRO ROMERO OSCAR AUGUSTO PERALTA ROSALES NAXIELI SANTIAGO DE LA ROSA et al.	GEOFISICA INTERNACIONAL	2024
5	Ozone over Mexico City during the COVID-19 pandemic	OSCAR AUGUSTO PERALTA ROSALES JOSE ABRAHAM ORTINEZ ALVAREZ RICARDO TORRES JARDON et al.	SCIENCE OF THE TOTAL ENVIRONMENT	2021
6	Impact of the COVID-19 Lockdown on Air Quality and Resulting Public Health Benefits in the Mexico City Metropolitan Area	IVAN YASSMANY HERNANDEZ PANIAGUA VICTOR HUGO ALMANZA VELOZ CLAUDIA INES RIVERA CARDENAS et al.	Frontiers In Public Health	2021

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7	Carbon monoxide emissions assessment by using satellite and modeling data: Central Mexico case study	JOSE AGUSTIN GARCIA REYNOSO WOLFGANG MICHAEL HELMUT STREMME LUIS GERARDO RUIZ SUAREZ et al.	ATMOSFERA	2021
8	Emission inventory point source visualization on Google Earth and integrated with HYSPLIT model	JOSE ABRAHAM ORTINEZ ALVAREZ LUIS GERARDO RUIZ SUAREZ JOSE AGUSTIN GARCIA REYNOSO et al.	ATMOSFERA	2021
9	Nitrogen cycling in tropical dry forests is sensitive to changes in rainfall regime and nitrogen deposition	LUIS GERARDO RUIZ SUAREZ VALERIA FRANCISCA EUGENIA LEOPOLDINA DE MARIA DE GUADALUPE SOUZA SALDIVAR HOMERO JULIO EUDES CAMPO ALVES et al.	Biogeochemistr y	2021
10	Estimation and mapping of the contribution of nitric acid to atmospheric corrosion of zinc	FRANCISCO JAVIER RODRIGUEZ GOMEZ JUAN GENESCA LLONGUERAS LUIS GERARDO RUIZ SUAREZ et al.	GLOBAL JOURNAL OF ENVIRONMENTA L SCIENCE AND MANAGEMENT- GJESM	2021
11	Total gaseous mercury levels in the vicinity of the Central Mexico mountain mining zone and its dispersion area	ROCIO GARCIA MARTINEZ GILBERTO HERNANDEZ SILVA MIGUEL ANGEL FLORES ESPINOSA et al.	AIR QUALITY ATMOSPHERE AND HEALTH	2021
12	N ₂ O emission factors from a wastewater irrigated land in a semiarid environment in Mexico	MIRIAM GONZALEZ MENA LUIS GERARDO RUIZ SUAREZ CHRISTINA DESIREE SIEBE GRABACH	SCIENCE OF THE TOTAL ENVIRONMENT	2020
13	Atmospheric black carbon concentrations in Mexico	OSCAR AUGUSTO PERALTA ROSALES JOSE ABRAHAM ORTINEZ ALVAREZ HARRY ALVAREZ OSPINA et al.	ATMOSPHERIC RESEARCH	2019
14	Optical properties of atmospheric particles over an urban site in Mexico City and a peri-urban site in Queretaro	OSCAR PERALTA GUTIERREZ DARA SALCEDO GONZALEZ LUIS GERARDO RUIZ SUAREZ et al.	JOURNAL OF ATMOSPHERIC CHEMISTRY	2019
15	Análisis del transporte de ozono en la cuenca atmosférica de Puebla-Tlaxcala en el centro de México	RICARDO TORRES JARDON LUIS GERARDO RUIZ SUAREZ WILFRIDO GUTIERREZ LOPEZ et al.	REVISTA INTERNACIONAL DE CONTAMINACIO N AMBIENTAL	2019
16	Determination of emission factors for climate forcers and air pollutants from improved wood-burning cookstoves in Mexico	RICARDO TORRES JARDON LUIS GERARDO RUIZ SUAREZ TELMA GLORIA CASTRO ROMERO et al.	ENERGY FOR SUSTAINABLE DEVELOPMENT	2019
17	Methane production and carbon assimilation in nontronite at 25°C	JAVIERA CERVINI SILVA LUIS GERARDO RUIZ SUAREZ JOSE MANUEL HERNANDEZ SOLIS et al.	APPLIED CLAY SCIENCE	2019

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18	SPATIAL, TEMPORARY AND SPECIAL DISTRIBUTION MODEL OF THE MEXICO EMISSIONS INVENTORY (BASE YEAR 2008) FOR USE IN AIR QUALITY MODELING (DIETE)	JOSE AGUSTIN GARCIA REYNOSO BERTHA EUGENIA MAR MORALES LUIS GERARDO RUIZ SUAREZ	REVISTA INTERNACIONAL DE CONTAMINACION AMBIENTAL	2018
19	Characterization of NO _x -O _x relationships during daytime interchange of air masses over a mountain pass in the Mexico City megalopolis	RICARDO TORRES JARDON TELMA GLORIA CASTRO ROMERO OSCAR AUGUSTO PERALTA ROSALES et al.	ATMOSPHERIC ENVIRONMENT	2018
20	Personal exposure to PM _{2.5} in the megacity of Mexico: A multi-mode transport study	GEMA LUZ ANDRACA AYALA LUIS GERARDO RUIZ SUAREZ LUIS TORRE BOUSCOULET et al.	ATMOSPHERE	2018
21	Estimation of the impact of ozone on four economically important crops in the city belt of Central Mexico	LUIS GERARDO RUIZ SUAREZ BERTHA EUGENIA MAR MORALES JOSE AGUSTIN GARCIA REYNOSO et al.	ATMOSPHERE	2018
22	Increasing weekend effect in ground-level O ₃ in metropolitan areas of Mexico during 1988-2016	JOSE AGUSTIN GARCIA REYNOSO LUIS GERARDO RUIZ SUAREZ IVAN YASSMANY HERNANDEZ PANIAGUA et al.	SUSTAINABILITY	2018
23	Concentration profile of elemental and organic carbon and personal exposure to other pollutants from brick kilns in Durango, Mexico	JOSE ABRAHAM ORTINEZ ALVAREZ OSCAR AUGUSTO PERALTA ROSALES HARRY ALVAREZ OSPINA et al.	AIR QUALITY ATMOSPHERE AND HEALTH	2017
24	Identification and quantification of metabolites in exhaled breath in a sample population in México	KATYA PATRICIA VAZQUEZ RIVERA JOSE MANUEL HERNANDEZ SOLIS LUIS GERARDO RUIZ SUAREZ et al.	AIP Conference Proceedings	2016
25	Numerical air quality forecast modeling system: Mexico case study	JOSE AGUSTIN GARCIA REYNOSO BERTHA EUGENIA MAR MORALES LUIS GERARDO RUIZ SUAREZ	Environmental Science and Engineering-Environmental Engineering	2016
26	Morphological and chemical characterization of soot emitted during flaming combustion stage of native-wood species used for cooking process in western Mexico	GIOVANNI ALBERTO CARABALI SANDOVAL TELMA GLORIA CASTRO ROMERO WENCEL JOSE DE LA CRUZ HERNANDEZ et al.	JOURNAL OF AEROSOL SCIENCE	2016
27	Short-term emissions of CO ₂ and N ₂ O in response to periodic flood irrigation with waste water in the Mezquital Valley of Mexico	BLANCA GONZALEZ MENDEZ JOSE MANUEL HERNANDEZ ALCANTARA LUIS GERARDO RUIZ SUAREZ et al.	ATMOSPHERIC ENVIRONMENT	2015
28	Spatial distribution and transport patterns of NO ₂ in the Tijuana-San Diego area	CLAUDIA INES RIVERA CARDENAS WOLFGANG MICHAEL HELMUT STREMMER Hugo Barrera et al.	ATMOSPHERIC POLLUTION RESEARCH	2015

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29	The effects of increased N input on soil C and N dynamics in seasonally dry tropical forests: An experimental approach	Marylin Bejarano LUIS GERARDO RUIZ SUAREZ HOMERO JULIO EUDES CAMPO ALVES et al.	APPLIED SOIL ECOLOGY	2014
30	A comparison between Cal-Mex in Tijuana and Cal-Nex in Pasadena on aerosol optical properties, ozone and reactive nitrogen	GIOVANNI ALBERTO CARABALI SANDOVAL RICARDO TORRES JARDON TELMA GLORIA CASTRO ROMERO et al.	Urban Climate	2014
31	The influence of the Tula, hidalgo complex on the air quality of the Mexico city metropolitan area	JOSE AGUSTIN GARCIA REYNOSO ARON JAZCILEVICH DIAMANT LUIS GERARDO RUIZ SUAREZ et al.	ATMOSFERA	2014
32	Meteorological overview and plume transport patterns during Cal-Mex 2010	RICARDO TORRES JARDON MICHEL ALEXANDRE GRUTTER DE LA MORA WILFRIDO GUTIERREZ LOPEZ et al.	ATMOSPHERIC ENVIRONMENT	2013
33	Measurements of formaldehyde at the U.S.-Mexico border during the Cal-Mex 2010 air quality study	RICARDO TORRES JARDON LUIS GERARDO RUIZ SUAREZ Zheng, Jun et al.	ATMOSPHERIC ENVIRONMENT	2013
34	Volatile organic compounds in Tijuana during the cal-mex 2010 campaign: Measurements and source apportionment	RICARDO TORRES JARDON LUIS GERARDO RUIZ SUAREZ Zheng, Jun et al.	ATMOSPHERIC ENVIRONMENT	2013
35	Study of the regional air quality south of Mexico City (Morelos state)	TELMA GLORIA CASTRO ROMERO LUIS GERARDO RUIZ SUAREZ JOSE AGUSTIN GARCIA REYNOSO et al.	SCIENCE OF THE TOTAL ENVIRONMENT	2012
36	A modeling study of Aeolian erosion enhanced by surface wind confluences over Mexico City	Emmanuel Diaz Nigenda ARON JAZCILEVICH DIAMANT JOSE AGUSTIN GARCIA REYNOSO et al.	AEOLIAN RESEARCH	2010
37	Detection of pollution transport events southeast of Mexico City using ground-based visible spectroscopy measurements of nitrogen dioxide	M. L. Melamed R. Basaldud LUIS GERARDO RUIZ SUAREZ et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2009
38	Ozone weekend effect analysis in Mexico City	JOSE AGUSTIN GARCIA REYNOSO ARON JAZCILEVICH DIAMANT LUIS GERARDO RUIZ SUAREZ et al.	ATMOSFERA	2009
39	Assessment of the Ozone-Nitrogen Oxide-Volatile Organic Compound Sensitivity of Mexico City through an Indicator-Based Approach: Measurements and Numerical Simulations Compariso	RICARDO TORRES JARDON JOSE AGUSTIN GARCIA REYNOSO ARON JAZCILEVICH DIAMANT et al.	J AIR WASTE MANAGE	2009

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40	Hit from both sides: tracking industrial and volcanic plumes in Mexico City with surface measurements and OMI SO ₂ retrievals during the MILAGRO field campaign	LUIS GERARDO RUIZ SUAREZ de Foy, B. Krotkov, N. A. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2009
41	Use of IPCC GHG key sources analysis to Mexico's environmental policy	XOCHITL CRUZ NUÑEZ LUIS GERARDO RUIZ SUAREZ Conde, Luis	MITIGATION AND ADAPTATION STRATEGIES FOR GLOBAL CHANGE	2008
42	On the mechanism of the OH initiated oxidation of acetylene in the presence of O ₂ and NO (x)	LUIS GERARDO RUIZ SUAREZ Galano, Annia Vivier-Bunge, Annik	THEORETICAL CHEMISTRY ACCOUNTS	2008
43	Monoterpene and isoprene emissions from typical tree species in forests around Mexico City	LUIS GERARDO RUIZ SUAREZ IRMA AURORA ROSAS PEREZ JOSE MANUEL HERNANDEZ SOLIS et al.	ATMOSPHERIC ENVIRONMENT	2007
44	Partitioning of formaldehyde between gas phase and particles (PM _{2.5}) in México City	GEMA LUZ ANDRACA AYALA LUIS GERARDO RUIZ SUAREZ	ATMOSFERA	2005
45	A study of air flow patterns affecting pollutant concentrations in the Central Region of Mexico	ARON JAZCILEVICH DIAMANT LUIS GERARDO RUIZ SUAREZ JOSE AGUSTIN GARCIA REYNOSO	ATMOSPHERIC ENVIRONMENT	2003
46	An air quality modeling study comparing two possible sites for the new international airport for Mexico City	ARON JAZCILEVICH DIAMANT JOSE AGUSTIN GARCIA REYNOSO LUIS GERARDO RUIZ SUAREZ et al.	JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION	2003
47	Evaluation of vapor recovery systems efficiency and personal exposure in service stations in Mexico City	XOCHITL CRUZ NUÑEZ JOSE MANUEL HERNANDEZ SOLIS LUIS GERARDO RUIZ SUAREZ	SCIENCE OF THE TOTAL ENVIRONMENT	2003
48	Observations of formic and acetic acids at three sites of Mexico City	LUIS GERARDO RUIZ SUAREZ Limón-Sánchez M.T. Arriaga-Colina J.L. et al.	SCIENCE OF THE TOTAL ENVIRONMENT	2002
49	A modeling study of air pollution modulation through land-use change in the Valley of Mexico	ARON JAZCILEVICH DIAMANT LUIS GERARDO RUIZ SUAREZ JOSE AGUSTIN GARCIA REYNOSO	ATMOSPHERIC ENVIRONMENT	2002
50	Methane emission factors from cattle manure in Mexico	LUIS GERARDO RUIZ SUAREZ González-Avalos E.	BIORESOURCE TECHNOLOGY	2001
51	Organic compounds in Mexico City aerosols	LUIS GERARDO RUIZ SUAREZ OMAR AMADOR MUÑOZ JOSE MANUEL HERNANDEZ SOLIS et al.	Advances In Air Pollution	2000

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52	Sensitivity analysis of a UV radiation transfer model and experimental photolysis rates of NO ₂ in the atmosphere of Mexico City	TELMA GLORIA CASTRO ROMERO LUIS GERARDO RUIZ SUAREZ Ruiz-Suárez J.C. et al.	ATMOSPHERIC ENVIRONMENT	1997
53	Gas phase determination of aldehydes in three sites of Mexico City	LUIS GERARDO RUIZ SUAREZ GEMA LUZ ANDRACA AYALA	International Conference On Air Pollution - Proceedings	1997
54	On the possible impact of non methane hydrocarbons and nitric oxide biogenic emissions in Mexico City	LUIS GERARDO RUIZ SUAREZ Longoria R. Hernandez F.	International Conference On Air Pollution - Proceedings	1997
55	Modeling methane emissions from cattle in Mexico	LUIS GERARDO RUIZ SUAREZ González-Avalos E.	SCIENCE OF THE TOTAL ENVIRONMENT	1997
56	Direct measurements of NO ₂ photolysis rates for Mexico City	TELMA GLORIA CASTRO ROMERO LUIS GERARDO RUIZ SUAREZ CARLOS GAY Y GARCIA et al.	ATMOSFERA	1995
57	Short-term ozone forecasting by artificial neural networks	LUIS GERARDO RUIZ SUAREZ Ruiz-Suárez J.C. Mayora-Ibarra O.A. et al.	ADV ENG SOFTW	1995
58	Short-term forecasting of ozone by means of a bi-directional associative memory (Mexico City: case study)	LUIS GERARDO RUIZ SUAREZ Ruiz-Suarez J.C. Smith-Perez R. et al.	Applications Of Artificial Intelligence In Engineering	1994
59	Experimental determination of the photolysis constant of nitrogen dioxide for Mexico City	TELMA GLORIA CASTRO ROMERO LUIS GERARDO RUIZ SUAREZ CARLOS GAY Y GARCIA et al.	International Conference On Air Pollution - Proceedings	1994
60	Neural network-based prediction model of ozone for Mexico City	LUIS GERARDO RUIZ SUAREZ Ruiz-Suarez J.C. Mayora O.A. et al.	International Conference On Air Pollution - Proceedings	1994
61	Photolytic rates for NO ₂ , O ₃ and HCHO in the atmosphere of Mexico City	LUIS GERARDO RUIZ SUAREZ CARLOS GAY Y GARCIA TELMA GLORIA CASTRO ROMERO et al.	Atmospheric Environment Part A, General Topics	1993
62	Do we need an Ad hoc chemical mechanism for Mexico City's photochemical smog?	LUIS GERARDO RUIZ SUAREZ TELMA GLORIA CASTRO ROMERO BERTHA EUGENIA MAR MORALES et al.	Atmospheric Environment Part A, General Topics	1993

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN

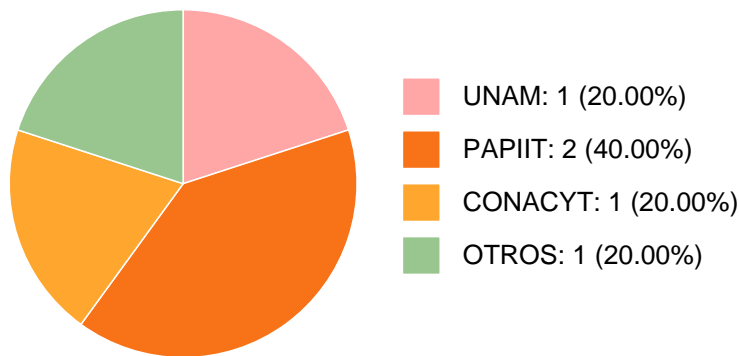


#	Título	Autores	Alcance	Año	ISBN
1	Transformaciones para la sostenibilidad	JOSE ABRAHAM ORTINEZ ALVAREZ LUIS GERARDO RUIZ SUAREZ OSCAR AUGUSTO PERALTA ROSALES et al.	Libro Completo	2023 6	978607564547
2	De Un Paisaje Lacustre A La Periurbanización.	GUSTAVO GERARDO GARZA MERODIO MARIA INES ORTIZ ALVAREZ JORGE GONZALEZ SANCHEZ et al.	Libro Completo	2021	9786073051460
3	Numerical Air Quality Forecast Modeling System: Mexico Case Study	JOSE AGUSTIN GARCIA REYNOSO LUIS GERARDO RUIZ SUAREZ BERTHA EUGENIA MAR MORALES	Capítulo de un Libro	2016	9783319279640
4	Inventario Nacional de Emisiones de Carbono Negro	LUIS GERARDO RUIZ SUAREZ XOCHITL CRUZ NUÑEZ	Capítulo de un Libro	2012	9786078246502

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Determinación de carbonilos en fuentes pequeñas de emisión (estufas y chimeneas)	LUIS GERARDO RUIZ SUAREZ	Presupuesto de la UNAM asignado a la Dependencia	01-01-2015	28-02-2018
2	Measurement and analysis of BC emission data from uncontrolled open burning of waste in México, and the elaboration of an emission factor for this sector	LUIS GERARDO RUIZ SUAREZ	Universidades, Centros, Institutos u Organismos Internacionales	15-06-2015	15-06-2018
3	Red temática sobre contaminación atmosférica y mitigación del cambio climático	LUIS GERARDO RUIZ SUAREZ	Recursos CONACYT	01-04-2017	01-11-2018
4	Especiación y reactividad fotoquímica de compuestos orgánicos volátiles en tres ciudades de la Corona Regional de las Ciudades del Centro de México	LUIS GERARDO RUIZ SUAREZ	Recursos PAPIIT	01-01-2016	31-12-2018
5	Medición de la exposición potencial y la contaminación atmosférica en estaciones de transporte de superficie mediante sistemas AQEarth de bajo costo.	LUIS GERARDO RUIZ SUAREZ	Recursos PAPIIT	01-01-2024	31-12-2025



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
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Reporte individual



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PARTICIPACIÓN EN TESIS

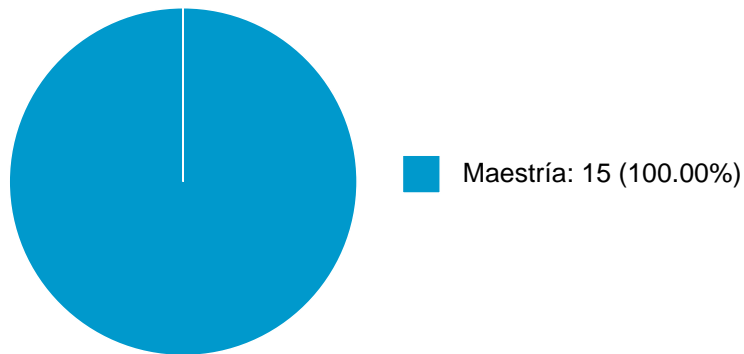
No se encuentran registros en la base de datos de TESIUNAM asociados a:

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	QUÍMICA DE LA ATMÓSFERA	Centro de Ciencias de la Atmósfera	1	2019-2
2	Maestría	QUIMICA DE LA ATMOSFERA	Instituto de Radioastronomía y Astrofísica	4	2018-2
3	Maestría	QUÍMICA DE LA ATMÓSFERA	Centro de Ciencias de la Atmósfera	4	2017-2
4	Maestría	TRABAJO DE INVESTIGACION-395673	Facultad de Química	1	2017-1
5	Maestría	TRABAJO DE INVESTIGACION	Facultad de Química	1	2016-2
6	Maestría	TRABAJO DE INVESTIGACION	Facultad de Química	1	2016-1
7	Maestría	TRABAJO DE INVESTIGACION	Facultad de Química	1	2015-2
8	Maestría	QUIMICA DE LA ATMOSFERA	Centro de Ciencias de la Atmósfera	4	2015-2
9	Maestría	QUIMICA DE LA ATMOSFERA	Centro de Ciencias de la Atmósfera	3	2014-2
10	Maestría	ACTIVIDAD ACADEMICA PARA LA OBTENCION DEL GRADO	Centro de Ciencias de la Atmósfera	1	2013-2
11	Maestría	SEMINARIO DE INVESTIGACION	Centro de Ciencias de la Atmósfera	1	2013-1
12	Maestría	QUIMICA DE LA ATMOSFERA	Centro de Ciencias de la Atmósfera	4	2012-2
13	Maestría	QUIMICA ATMOSFERICA	Centro de Ciencias de la Atmósfera	2	2010-2



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14	Maestría	QUIMICA ATMOSFERICA	Centro de Ciencias de la Atmósfera	9	2009-2
15	Maestría	QUIMICA ATMOSFERICA	Centro de Ciencias de la Atmósfera	5	2008-2



Sistema Integral de Información Académica
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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