WOLFGANG MICHAEL HELMUT STREMME

Datos Generales

Nombre: WOLFGANG MICHAEL HELMUT STREMME

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 14 años

Nombramientos

Vigente: INVESTIGADOR TITULAR A TC Definitivo
Instituto de Ciencias de la Atmósfera y Cambio Climático
Desde 01-10-2021

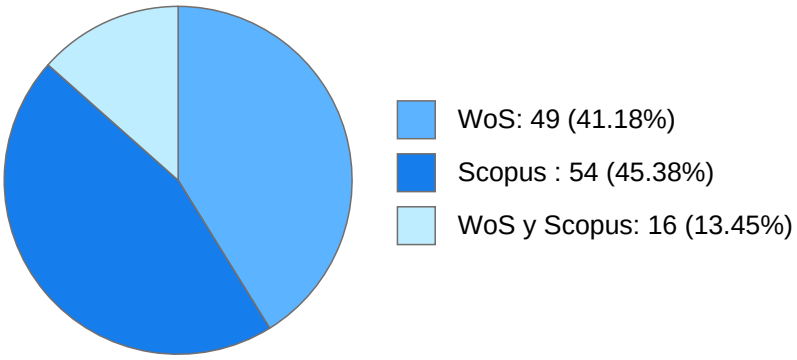
Estímulos, programas, premios y reconocimientos

SNI I 2014 - 2024
SNI C 2011 - 2013
PRIDE C 2016 - 2024
PRIDE B 2011 - 2016
PASPA Estancias Sabáticas 2019 - 2020

WOLFGANG MICHAEL HELMUT STREMME

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Bias correction of OMI HCHO columns based on FTIR and aircraft measurements and impact on top-down emission estimates	MICHEL ALEXANDRE GRUTTER DE LA MORA WOLFGANG MICHAEL HELMUT STREMME Müller J.-F. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2024
2	Urban XCO2 Gradients From a Dense Network of Solar Absorption Spectrometers and OCO-3 Over Mexico City	NOEMIE LUCIE TAQUET WOLFGANG MICHAEL HELMUT STREMME JOSE AGUSTIN GARCIA REYNOSO et al.	Journal Of Geophysical Research-Atmospheres	2024
3	CO₂ and CO temporal variability over Mexico City from ground-based total column and surface measurements	NOEMIE LUCIE TAQUET WOLFGANG MICHAEL HELMUT STREMME MA EUGENIA GONZALEZ DEL CASTILLO ARANDA et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2024
4	CO2 Emissions Estimate From Mexico City Using Ground- and Space-Based Remote Sensing	NOEMIE LUCIE TAQUET WOLFGANG MICHAEL HELMUT STREMME JOSE AGUSTIN GARCIA REYNOSO et al.	Journal Of Geophysical Research-Atmospheres	2024
5	Direct solar FTIR measurements of CO2 and HCl in the plume of Popocatépetl Volcano, Mexico	WOLFGANG MICHAEL HELMUT STREMME MICHEL ALEXANDRE GRUTTER DE LA MORA NOEMIE LUCIE TAQUET et al.	Frontiers In Earth Science	2023

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6	Combined direct-sun ultraviolet and infrared spectroscopies at Popocatépetl volcano (Mexico)	NOEMIE LUCIE TAQUET CLAUDIA INES RIVERA CARDENAS WOLFGANG MICHAEL HELMUT STREMME et al.	Frontiers In Earth Science	2023
7	Validation of OMPS Suomi NPP and OMPS NOAA-20 Formaldehyde Total Columns With NDACC FTIR Observations	MICHEL ALEXANDRE GRUTTER DE LA MORA WOLFGANG MICHAEL HELMUT STREMME Kwon H.-A. et al.	Earth And Space Science	2023
8	CO2 variability in the Mexico City region from in situ measurements at an urban and a background site	NOEMIE LUCIE TAQUET ALEJANDRO BEZANILLA MORLOT WOLFGANG MICHAEL HELMUT STREMME et al.	ATMOSFERA	2022
9	Global Atmospheric OCS Trend Analysis From 22 NDACC Stations	MICHEL ALEXANDRE GRUTTER DE LA MORA WOLFGANG MICHAEL HELMUT STREMME Hannigan J.W. et al.	Journal Of Geophysical Research-Atmospheres	2022
10	Improved calibration procedures for the EM27/SUN spectrometers of the COllaborative Carbon Column Observing Network (COCCON)	MICHEL ALEXANDRE GRUTTER DE LA MORA WOLFGANG MICHAEL HELMUT STREMME Alberti C. et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2022
11	Variability of Water Vapor in Central Mexico from Two Remote Sensing Techniques: FTIR Spectroscopy and GPS	WOLFGANG MICHAEL HELMUT STREMME MICHEL ALEXANDRE GRUTTER DE LA MORA DAVID KENTON ADAMS et al.	JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY	2022
12	Measurement report: Evolution and distribution of NH3 over Mexico City from ground-based and satellite infrared spectroscopic measurements	BEATRIZ ADRIANA HERRERA GUTIERREZ ALEJANDRO BEZANILLA MORLOT ADOLFO VICENTE MAGALDI HERMOSILLO et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2022
13	Ground-based validation of the Copernicus Sentinel-5P TROPOMI NO2 measurements with the NDACC ZSL-DOAS, MAX-DOAS and Pandonia global networks	MICHEL ALEXANDRE GRUTTER DE LA MORA CLAUDIA INES RIVERA CARDENAS WOLFGANG MICHAEL HELMUT STREMME et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2021
14	Formaldehyde total column densities over Mexico City: Comparison between multi-axis differential optical absorption spectroscopy and solar-absorption Fourier transform infrared measurements	CLAUDIA INES RIVERA CARDENAS CESAR AUGUSTO GUARIN DURAN WOLFGANG MICHAEL HELMUT STREMME et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2021
15	Characterization and potential for reducing optical resonances in Fourier transform infrared spectrometers of the Network for the Detection of Atmospheric Composition Change (NDACC)	MICHEL ALEXANDRE GRUTTER DE LA MORA WOLFGANG MICHAEL HELMUT STREMME Blumenstock T. et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2021

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16	Evaluation of OMI NO2 Vertical Columns Using MAX-DOAS Observations over Mexico City	CLAUDIA INES RIVERA CARDENAS WOLFGANG MICHAEL HELMUT STREMME ALEJANDRO BEZANILLA MORLOT et al.	REMOTE SENSING	2021
17	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
18	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
19	Validation of methane and carbon monoxide from Sentinel-5 Precursor using TCCON and NDACC-IRWG stations	MICHEL ALEXANDRE GRUTTER DE LA MORA IVAN ORTEGA BLAKE WOLFGANG MICHAEL HELMUT STREMME et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2021
20	Attenuation factor estimation of direct normal irradiance combining sky camera images and mathematical models in an inter-tropical area	DAVID RIVEROS ROSAS MAURO GERMAN VALDES BARRON HECTOR RAUL ESTEVEZ PEREZ et al.	REMOTE SENSING	2020
21	TROPOMI-Sentinel-5 Precursor formaldehyde validation using an extensive network of ground-based Fourier-transform infrared stations	MICHEL ALEXANDRE GRUTTER DE LA MORA IVAN ORTEGA BLAKE WOLFGANG MICHAEL HELMUT STREMME et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2020
22	Monitoring CO emissions of the metropolis Mexico City using TROPOMI CO observations	JOSE AGUSTIN GARCIA REYNOSO BERTHA EUGENIA MAR MORALES WOLFGANG MICHAEL HELMUT STREMME et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2020
23	Characterization of a UV camera system for SO2 measurements from Popocatepetl Volcano	WOLFGANG MICHAEL HELMUT STREMME MICHEL ALEXANDRE GRUTTER DE LA MORA ROBIN ANDRE LUCIEN PERCEVAL TRISTAN DIDIE CAMPION et al.	JOURNAL OF VOLCANOLOGY AND GEOTHERMAL RESEARCH	2019
24	NO2 vertical profiles and column densities from MAX-DOAS measurements in Mexico City	CLAUDIA INES RIVERA CARDENAS WOLFGANG MICHAEL HELMUT STREMME ALEJANDRO BEZANILLA MORLOT et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2019
25	Variability in the Gas Composition of the Popocatepetl Volcanic Plume	NOEMIE LUCIE TAQUET WOLFGANG MICHAEL HELMUT STREMME MICHEL ALEXANDRE GRUTTER DE LA MORA et al.	Frontiers In Earth Science	2019

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26	Variability of the Mixed-Layer Height Over Mexico City	JORGE LUIS GARCIA FRANCO WOLFGANG MICHAEL HELMUT STREMME ALEJANDRO BEZANILLA MORLOT et al.	BOUNDARY-LAYER METEOROLOGY	2018
27	NDACC harmonized formaldehyde time series from 21 FTIR stations covering a wide range of column abundances	MICHEL ALEXANDRE GRUTTER DE LA MORA WOLFGANG MICHAEL HELMUT STREMME Corinne Vigouroux et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2018
28	Mapping carbon monoxide pollution from space down to city scales with daily global coverage	WOLFGANG MICHAEL HELMUT STREMME MICHEL ALEXANDRE GRUTTER DE LA MORA Tobias Borsdorff et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2018
29	Tropospheric water vapour isotopologue data ((H2O)-O-16, (H2O)-O-18, and (HDO)-O-16) as obtained from NDACC/FTIR solar absorption spectra	MICHEL ALEXANDRE GRUTTER DE LA MORA WOLFGANG MICHAEL HELMUT STREMME Barthlott, Sabine et al.	EARTH SYSTEM SCIENCE DATA	2017
30	Investigating differences in DOAS retrieval codes using MAD-CAT campaign data	CLAUDIA INES RIVERA CARDENAS MICHEL ALEXANDRE GRUTTER DE LA MORA WOLFGANG MICHAEL HELMUT STREMME et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2017
31	Validation of the CrIS fast physical NH3 retrieval with ground-based FTIR	WOLFGANG MICHAEL HELMUT STREMME MICHEL ALEXANDRE GRUTTER DE LA MORA Dammers, Enrico et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2017
32	Ground-based remote sensing of O-3 by high-and medium-resolution FTIR spectrometers over the Mexico City basin	WOLFGANG MICHAEL HELMUT STREMME ALEJANDRO BEZANILLA MORLOT MICHEL ALEXANDRE GRUTTER DE LA MORA et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2017
33	Continuous measurements of SiF4 and SO2 by thermal emission spectroscopy: Insight from a 6-month survey at the Popocatepetl volcano	ISRAEL MEZA HERNANDEZ WOLFGANG MICHAEL HELMUT STREMME ALEJANDRO BEZANILLA MORLOT et al.	JOURNAL OF VOLCANOLOGY AND GEOTHERMAL RESEARCH	2017
34	Background CO2 levels and error analysis from ground-based solar absorption IR measurements in central Mexico	WOLFGANG MICHAEL HELMUT STREMME MICHEL ALEXANDRE GRUTTER DE LA MORA Baylon, Jorge L. et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2017
35	The MAX-DOAS network in Mexico City to measure atmospheric pollutants	CLAUDIA INES RIVERA CARDENAS WOLFGANG MICHAEL HELMUT STREMME Martina M. Friedrich et al.	ATMOSFERA	2016
36	An evaluation of IASI-NH3 with ground-based Fourier transform infrared spectroscopy measurements	WOLFGANG MICHAEL HELMUT STREMME MICHEL ALEXANDRE GRUTTER DE LA MORA Dammers, Enrico et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2016

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37	Spatial distribution and transport patterns of NO2 in the Tijuana-San Diego area	CLAUDIA INES RIVERA CARDENAS WOLFGANG MICHAEL HELMUT STREMME Hugo Barrera et al.	ATMOSPHERIC POLLUTION RESEARCH	2015
38	Solar absorption infrared spectroscopic measurements over Mexico city: Methane enhancements	ALEJANDRO BEZANILLA MORLOT Arne Krueger WOLFGANG MICHAEL HELMUT STREMME et al.	ATMOSFERA	2014
39	Volcanic SO2 and SiF4 visualization using 2-D thermal emission spectroscopy - Part 2: Wind propagation and emission rates	MICHEL ALEXANDRE GRUTTER DE LA MORA WOLFGANG MICHAEL HELMUT STREMME Krueger, A. et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2013
40	Top-down estimation of carbon monoxide emissions from the Mexico Megacity based on FTIR measurements from ground and space	WOLFGANG MICHAEL HELMUT STREMME MICHEL ALEXANDRE GRUTTER DE LA MORA C. Rivera et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2013
41	Nitrogen dioxide DOAS measurements from ground and space: Comparison of zenith scattered sunlight ground-based measurements and OMI data in central Mexico	CLAUDIA INES RIVERA CARDENAS WOLFGANG MICHAEL HELMUT STREMME MICHEL ALEXANDRE GRUTTER DE LA MORA	ATMOSFERA	2013
42	Volcanic SO2 and SiF4 visualization using 2-D thermal emission spectroscopy - Part 1: Slant-columns and their ratios	WOLFGANG MICHAEL HELMUT STREMME A. Krueger MICHEL ALEXANDRE GRUTTER DE LA MORA et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2012
43	Gas composition of Popocatepetl Volcano between 2007 and 2008: FTIR spectroscopic measurements of an explosive event and during quiescent degassing	WOLFGANG MICHAEL HELMUT STREMME I. Ortega CLAUS SIEBE GRABACH et al.	EARTH AND PLANETARY SCIENCE LETTERS	2011
44	Using ground-based solar and lunar infrared spectroscopy to study the diurnal trend of carbon monoxide in the Mexico City boundary layer	WOLFGANG MICHAEL HELMUT STREMME I. Ortega MICHEL ALEXANDRE GRUTTER DE LA MORA	ATMOSPHERIC CHEMISTRY AND PHYSICS	2009
45	Trend analysis of greenhouse gases over Europe measured by a network of ground-based remote FTIR instruments	WOLFGANG MICHAEL HELMUT STREMME Gardiner T. Forbes A. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2008
46	Evaluation of tropospheric and stratospheric ozone trends over Western Europe from ground-based FTIR network observations	WOLFGANG MICHAEL HELMUT STREMME Vigouroux C. De Mazière M. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2008

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47	Validation of sciamachy columnar methane by solar ftir spectrometry at the permanent ground-truthing facility zugspitze/garmisch	WOLFGANG MICHAEL HELMUT STREMME Sussmann R. Buchwitz M. et al.	European Space Agency, (special Publication) Esa Sp	2007
48	Validation of WFM-DOAS V0.6 CO and V1.0 CH4 scientific products using European ground-based FTIR measurements	WOLFGANG MICHAEL HELMUT STREMME Dils B. De Mazière M. et al.	European Space Agency, (special Publication) Esa Sp	2007
49	Retrieval of tropospheric NO2 by synergistic use of scientific sciamachy data and ground-based ftir measurements at the zugspitze	WOLFGANG MICHAEL HELMUT STREMME Sussmann R. Burrows J.P. et al.	European Space Agency, (special Publication) Esa Sp	2007
50	Comparisons between SCIAMACHY and ground-based FTIR data for total columns of CO, CH4, CO2 and N2O	WOLFGANG MICHAEL HELMUT STREMME Dus B. De Mazière M. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2006
51	Validation of ENVISAT/SCIAMACHY columnar methane by solar FTIR spectrometry at the Ground-Truthing Station Zugspitze	WOLFGANG MICHAEL HELMUT STREMME Sussmann R. Buchwitz M. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2005
52	Stratospheric and tropospheric NO2 variability on the diurnal and annual scale: A combined retrieval from ENVISAT/SCIAMACHY and solar FTIR at the Permanent Ground-Truthing Facility Zugspitze/Garmisch	WOLFGANG MICHAEL HELMUT STREMME Sussmann R. Burrows J.P. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2005
53	Validation of SCIAMACHY operational near-real-time level-2 products by FTIR at the Ground Truthing Station Zugspitze	WOLFGANG MICHAEL HELMUT STREMME Sussmann R. Rettinger M. et al.	European Space Agency, (special Publication) Esa Sp	2004
54	High-order harmonic generation at a repetition rate of 100 kHz	WOLFGANG MICHAEL HELMUT STREMME Lindner F. Schätzel M.G. et al.	PHYSICAL REVIEW A	2003
55	High-order harmonic generation at a repetition rate of 100 kHz	WOLFGANG MICHAEL HELMUT STREMME Lindner F. Schätzel M.G. et al.	PHYSICAL REVIEW A	2003

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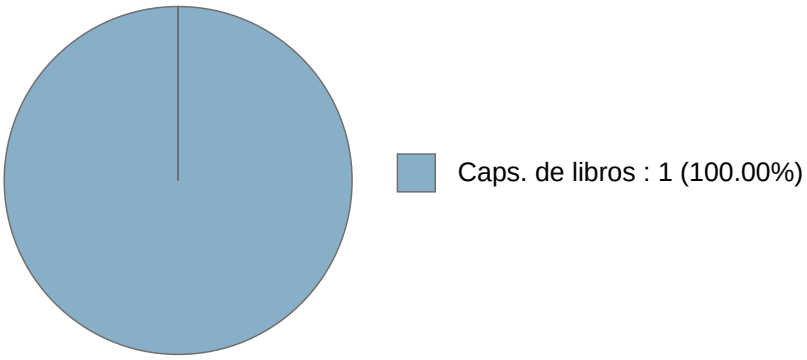
LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	Radiación solar y forzamiento radiativo antropogénico y natural	MANUEL RENE DE JESUS GARDUÑO LOPEZ MICHEL ALEXANDRE GRUTTER DE LA MORA WOLFGANG MICHAEL HELMUT STREMME et al.	Capítulo de un Libro	2016	9786070275227

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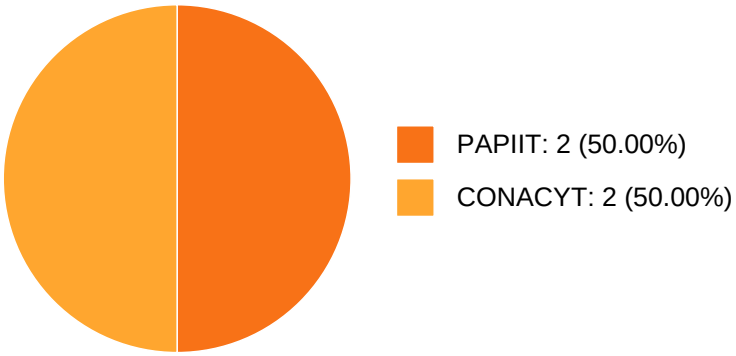
PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Ciclo de carbono y gases de efecto invernadero usando espectroscopia de absorción solar	WOLFGANG MICHAEL HELMUT STREMME	Recursos CONACYT	01-04-2015	31-03-2018
2	Estudio del ciclo de carbono y de los gases de efecto invernadero utilizando espectroscopía de absorción solar	WOLFGANG MICHAEL HELMUT STREMME	Recursos CONACYT	01-06-2016	31-12-2018
3	Diez años de espectroscopia de absorción solar en la Ciudad de México.	WOLFGANG MICHAEL HELMUT STREMME	Recursos PAPIIT	01-01-2018	31-12-2020
4	Percepción remota de gases trazas en y alrededor de la Ciudad de México: sinergia de mediciones complementarias	WOLFGANG MICHAEL HELMUT STREMME	Recursos PAPIIT	01-01-2021	31-12-2023

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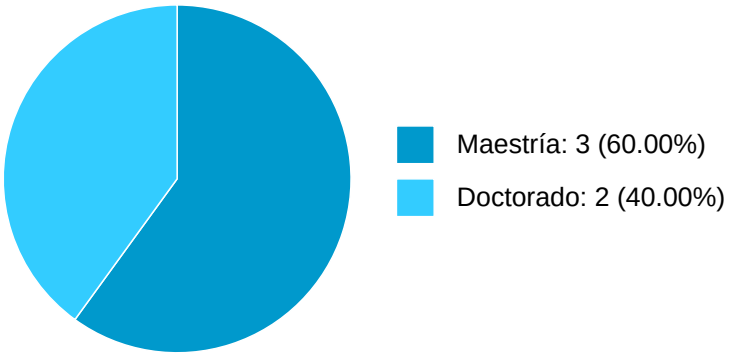
PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Desarrollo de un instrumento óptico para medir la velocidad de una pluma volcánica de SO2	Tesis de Maestría	WOLFGANG MICHAEL HELMUT STREMME,	Hernández Sánchez, Astrid,	Centro de Ciencias de la Atmósfera,	2021
2	Desarrollo de una cámara UV para el monitoreo de las emisiones de SO2 del Volcán Popocatépetl desde Altzomoni	Tesis de Doctorado	WOLFGANG MICHAEL HELMUT STREMME,	Schiavo Chiovaro, Benedetto,	Centro de Ciencias de la Atmósfera,	2019
3	Estimación del vapor de agua precipitable a través de los métodos de espectroscopia FTIR y GPS en el centro de México	Tesis de Maestría	WOLFGANG MICHAEL HELMUT STREMME,	García Zuber, Alain Jair,	Centro de Ciencias de la Atmósfera,	2018
4	CO2 en el centro de México por espectroscopía infrarroja de absorción solar	Tesis de Doctorado	MICHEL ALEXANDRE GRUTTER DE LA MORA,	BENJAMIN MARTINEZ LOPEZ, WOLFGANG MICHAEL HELMUT STREMME, et al.	Centro de Ciencias de la Atmósfera,	2017

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5	Mediciones con espectroscopía FTIR de la emisión térmica de los gases volcánicos	Tesis de Maestría	WOLFGANG MICHAEL HELMUT STREMME,	Meza Hernández, Israel,	Centro de Ciencias de la Atmósfera,	2016

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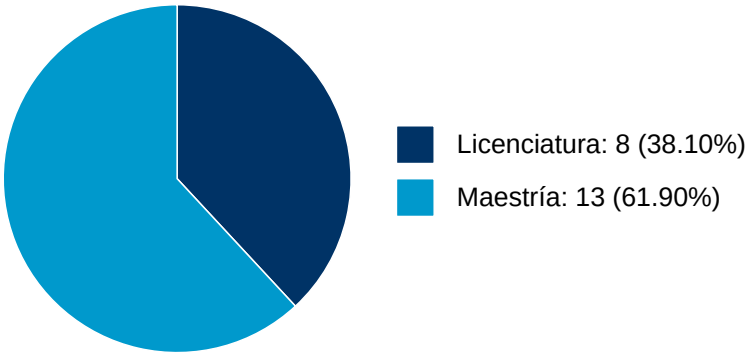
DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	ESPECTROSCOPIA	Escuela Nacional de Ciencias de la Tierra	2	2024-1
2	Maestría	PERCEPCIÓN REMOTA Y PROCESAMIENTO DIGITAL DE IMÁGENES	Instituto de Ciencias de la Atmósfera y Cambio Climático	1	2023-2
3	Maestría	PERCEPCIÓN REMOTA Y PROCESAMIENTO DIGITAL DE IMÁGENES	Instituto de Ciencias de la Atmósfera y Cambio Climático	1	2022-2
4	Maestría	ACTIVIDAD ACADÉMICA PARA LA OBTENCIÓN DEL GRADO	Instituto de Radioastronomía y Astrofísica	1	2020-2
5	Maestría	SEMINARIO DE INVESTIGACIÓN	Instituto de Geofísica	1	2020-1
6	Maestría	TEMA SELECTO DE CIENCIAS ATMOSFÉRICAS METODOS DE INVERSIÓN EN PERCEPCIÓN REMOTA	Centro de Ciencias de la Atmósfera	2	2019-2
7	Maestría	ACTIVIDAD ACADEMICA PARA LA OBTENCION DEL GRADO	Instituto de Radioastronomía y Astrofísica	1	2018-2
8	Licenciatura	LABORATORIO DE FISICA CONTEMPOR. II	Facultad de Ciencias	18	2018-2
9	Maestría	SEMINARIO DE INVESTIGACION	Instituto de Radioastronomía y Astrofísica	1	2018-1

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10	Maestría	ESPECTROSCOPIA DE LA ATMOSFERA	Centro de Ciencias de la Atmósfera	3	2017-2
11	Maestría	RADIACION SOLAR Y TERRESTRE	Centro de Ciencias de la Atmósfera	8	2015-2
12	Maestría	SEMINARIO DE INVESTIGACION	Centro de Ciencias de la Atmósfera	1	2015-2
13	Maestría	ACTIVIDAD ACADEMICA PARA LA OBTENCION DEL GRADO	Centro de Ciencias de la Atmósfera	1	2015-2
14	Licenciatura	ESPECTROSCOPIA FIS.ATOM.MOLECULAR	Facultad de Ciencias	9	2015-2
15	Maestría	RADIACION SOLAR Y TERRESTRE	Centro de Ciencias de la Atmósfera	12	2014-2
16	Licenciatura	LABORATORIO DE OPTICA	Facultad de Ciencias	13	2014-2
17	Licenciatura	LABORATORIO DE OPTICA	Facultad de Ciencias	16	2014-1
18	Licenciatura	ESPECTROSCOPIA FIS.ATOM.MOLECULAR	Facultad de Ciencias	4	2014-1
19	Maestría	ESPECTROSCOPIA DE LA ATMOSFERA	Centro de Ciencias de la Atmósfera	2	2014-1
20	Licenciatura	LABORATORIO DE OPTICA	Facultad de Ciencias	16	2013-2
21	Licenciatura	LABORATORIO DE OPTICA	Facultad de Ciencias	14	2013-1

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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