



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



DARREL GIBSON BAUMGARDNER

Datos Generales

Nombre: DARREL GIBSON BAUMGARDNER

Máximo nivel de estudios: POSDOCTORADO

Antigüedad académica en la UNAM: 13 años

Nombramientos

Último: INVESTIGADOR TITULAR C TC Definitivo
Centro de Ciencias de la Atmósfera
Desde 01-01-2008 (fecha inicial de registros en el
SIIA) hasta 31-08-2012

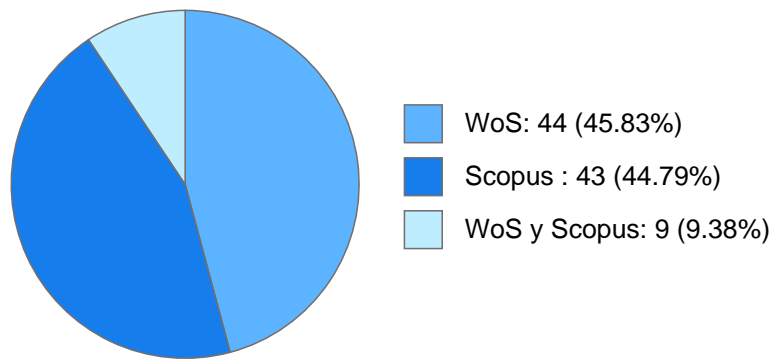
Estímulos, programas, premios y reconocimientos

SNI III 2009 - 2013
SNI II 2008
PRIDE D - 2012

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	ADABBOY	GRACIELA LUCIA BINIMELIS DE RAGA LUIS ANTONIO LADINO MORENO DARREL GIBSON BAUMGARDNER et al.	BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY	2021
2	The impact of fluctuations and correlations in droplet growth by collision-coalescence revisited - Part 2: Observational evidence of gel formation in warm clouds	GRACIELA LUCIA BINIMELIS DE RAGA DARREL GIBSON BAUMGARDNER Lester Alfonso	ATMOSPHERIC CHEMISTRY AND PHYSICS	2019
3	Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations	DARREL GIBSON BAUMGARDNER Martin G. Schultz Sabine Schroder et al.	Elementa-Science Of The Anthropocene	2017
4	Changes in intense precipitation events in Mexico City	CARLOS ABRAHAM OCHOA MOYA IGNACIO ARTURO QUINTANAR ISAIAS GRACIELA LUCIA BINIMELIS DE RAGA et al.	JOURNAL OF HYDROMETEOROLOGY	2015
5	Seasonal and diurnal trends in black carbon properties and co-pollutants in Mexico City	DARREL GIBSON BAUMGARDNER GRACIELA LUCIA BINIMELIS DE RAGA Retama, A. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2015

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6	Properties of small cirrus ice crystals from commercial aircraft measurements and implications for flight operations	DARREL GIBSON BAUMGARDNER GRACIELA LUCIA BINIMELIS DE RAGA Beswick, Karl et al.	TELLUS SERIES B-CHEMICAL AND PHYSICAL METEOROLOGY	2015
7	Pollution and its Impacts on the South American Cryosphere	DARREL GIBSON BAUMGARDNER GRACIELA LUCIA BINIMELIS DE RAGA Molina, Luisa T. et al.	EARTHS FUTURE	2015
8	The validity of the kinetic collection equation revisited - Part 3: Sol-gel transition under turbulent conditions	DARREL GIBSON BAUMGARDNER GRACIELA LUCIA BINIMELIS DE RAGA Baumgardner, D"	ATMOSPHERIC CHEMISTRY AND PHYSICS	2013
9	Temporal and spatial variations in organic and elemental carbon concentrations in PM10/PM2.5 in the metropolitan area of Costa Rica, Central America	DARREL GIBSON BAUMGARDNER Herrera Murillo, Jorge Rojas Marin, Jose Felix et al.	ATMOSPHERIC POLLUTION RESEARCH	2013
10	Chemical characterization and source apportionment of PM10 and PM2.5 in the metropolitan area of Costa Rica, Central America	Arturo Campos Ramos Salvador Blanco Jimenez Beatriz Cardenas Gonzalez et al.	ATMOSPHERIC POLLUTION RESEARCH	2013
11	A Comparative Study of Radiation Fog and Quasi-Fog Formation Processes During the ParisFog Field Experiment 2007	DARREL GIBSON BAUMGARDNER Haefelin, Martial Dupont, Jean-Charles et al.	PURE AND APPLIED GEOPHYSICS	2013
12	IN SITU, AIRBORNE INSTRUMENTATION Addressing and Solving Measurement Problems in Ice Clouds	DARREL GIBSON BAUMGARDNER Avallone, L. Bansemer, A. et al.	BULLETIN OF THE AMERICAN METEOROLOGIC AL SOCIETY	2012
13	The role of a peri-urban forest on air quality improvement in the Mexico City megalopolis	DARREL GIBSON BAUMGARDNER CARLOS ALBERTO OCHOA OLMOS Varela, Sebastian et al.	ENVIRONMENTA L POLLUTION	2012
14	Soot reference materials for instrument calibration and intercomparisons: a workshop summary with recommendations	DARREL GIBSON BAUMGARDNER Popovicheva, O. Allan, J. et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2012
15	Physical and chemical properties of the regional mixed layer of Mexico's Megapolis Part II: evaluation of measured and modeled trace gases and particle size distributions	CARLOS ALBERTO OCHOA OLMOS DARREL GIBSON BAUMGARDNER MICHEL ALEXANDRE GRUTTER DE LA MORA et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2012
16	Characterizing the Aging of Biomass Burning Organic Aerosol by Use of Mixing Ratios: A Meta-analysis of Four Regions	MICHEL ALEXANDRE GRUTTER DE LA MORA DARREL GIBSON BAUMGARDNER Jolleys, Matthew D. et al.	ENVIRONMENTA L SCIENCE & TECHNOLOGY	2012

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17	Tailored graphitized soot as reference material for EC/OC measurement validation	DARREL GIBSON BAUMGARDNER Popovicheva, O. Subramanian, R. et al.	ATMOSPHERIC MEASUREMENT TECHNIQUES	2011
18	MADE-in: a new aerosol microphysics submodel for global simulation of insoluble particles and their mixing state	DARREL GIBSON BAUMGARDNER Aquila, V. Hendricks, J. et al.	GEOSCIENTIFIC MODEL DEVELOPMENT	2011
19	Observations of ice nuclei and heterogeneous freezing in a Western Pacific extratropical storm	DARREL GIBSON BAUMGARDNER Stith, J. L. Twohy, C. H. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2011
20	Airborne instruments to measure atmospheric aerosol particles, clouds and radiation: A cook's tour of mature and emerging technology	DARREL GIBSON BAUMGARDNER Brennguier, JL Bucholtz, A. et al.	ATMOSPHERIC RESEARCH	2011
21	Aerosols that form subvisible cirrus at the tropical tropopause	DARREL GIBSON BAUMGARDNER Froyd, K. D. Murphy, D. M. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2010
22	Black carbon over Mexico: the effect of atmospheric transport on mixing state, mass absorption cross-section, and BC/CO ratios	DARREL GIBSON BAUMGARDNER Subramanian, R. Kok, G. L. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2010
23	Ice nucleation and cloud microphysical properties in tropical tropopause layer cirrus	DARREL GIBSON BAUMGARDNER Jensen, E. J. Pfister, L. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2010
24	Sources of aerosol as determined from elemental composition and size distributions in Beijing	DARREL GIBSON BAUMGARDNER Zhang, Wenjie Zhuang, Guoshun et al.	ATMOSPHERIC RESEARCH	2010
25	SOURCES AND PROPERTIES OF AMAZONIAN AEROSOL PARTICLES	DARREL GIBSON BAUMGARDNER Martin, Scot T. Andreae, Meinrat O. et al.	REVIEWS OF GEOPHYSICS	2010
26	CONTRAIL MICROPHYSICS	DARREL GIBSON BAUMGARDNER Heymsfield, Andrew DeMott, Paul et al.	BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY	2010
27	The validity of the kinetic collection equation revisited - Part 2: Simulations for the hydrodynamic kernel	GRACIELA LUCIA BINIMELIS DE RAGA DARREL GIBSON BAUMGARDNER Alfonso, L.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2010
28	Constraints on black carbon aerosol distribution from Measurement of Pollution in the Troposphere (MOPITT) CO	DARREL GIBSON BAUMGARDNER Arellano, Avelino F., Jr. Hess, Peter G. et al.	GEOPHYSICAL RESEARCH LETTERS	2010

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29	Comparison of airborne in situ measurements and Moderate Resolution Imaging Spectroradiometer (MODIS) retrievals of cirrus cloud optical and microphysical properties during the	DARREL GIBSON BAUMGARDNER Davis, Sean M. Avallone, Linnea M. et al.	Journal Of Geophysical Research-Atmo spheres	2009
30	Monte Carlo simulations of two-component drop growth by stochastic coalescence	GRACIELA LUCIA BINIMELIS DE RAGA DARREL GIBSON BAUMGARDNER Alfonso, L.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2009
31	An overview of aircraft observations from the Pacific Dust Experiment campaign	DARREL GIBSON BAUMGARDNER Stith, J. L. Ramanathan, V. et al.	Journal Of Geophysical Research-Atmo spheres	2009
32	Characterization of organic ambient aerosol during MIRAGE 2006 on three platforms	DARREL GIBSON BAUMGARDNER Gilardonj, S. Liu, S. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2009
33	Physical and chemical properties of the regional mixed layer of Mexico's Megapolis	DARREL GIBSON BAUMGARDNER MICHEL ALEXANDRE GRUTTER DE LA MORA CARLOS ALBERTO OCHOA OLMOS et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2009
34	Oxygenated organic functional groups and their sources in single and submicron organic particles in MILAGRO 2006 campaign	DARREL GIBSON BAUMGARDNER Liu, S. Takahama, S. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2009
35	Organic aerosol characterization by complementary measurements of chemical bonds and molecular fragments	DARREL GIBSON BAUMGARDNER Russell, Lynn M. Bahadur, Ranjit et al.	ATMOSPHERIC ENVIRONMENT	2009
36	Monte carlo simulations of drop growth by coalescence and collision-induced breakup	GRACIELA LUCIA BINIMELIS DE RAGA DARREL GIBSON BAUMGARDNER Alfonso, L.	REVISTA MEXICANA DE FISICA	2009
37	Coatings and their enhancement of black carbon light absorption in the tropical atmosphere	DARREL GIBSON BAUMGARDNER Schwarz, J. P. Spackman, J. R. et al.	Journal Of Geophysical Research-Atmo spheres	2008
38	The validity of the kinetic collection equation revisited	GRACIELA LUCIA BINIMELIS DE RAGA DARREL GIBSON BAUMGARDNER Alfonso, L.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2008
39	Clouds and aerosols in Puerto Rico - a new evaluation	DARREL GIBSON BAUMGARDNER GRACIELA LUCIA BINIMELIS DE RAGA FERNANDO GARCIA GARCIA et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2008
40	Formation of large (similar or equal to 100 μ m) ice crystals near the tropical tropopause	DARREL GIBSON BAUMGARDNER Jensen, E. J. Pfister, L. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2008



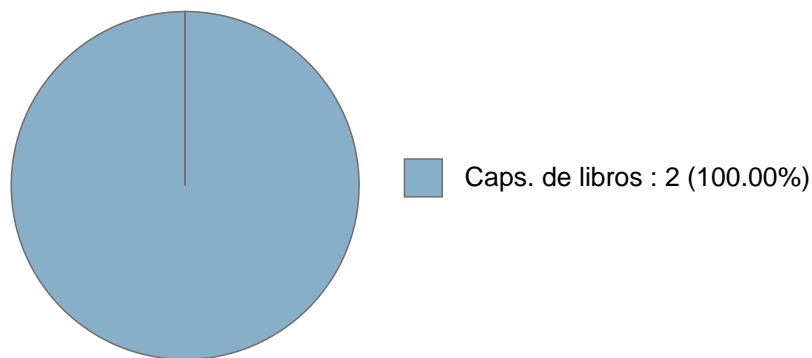
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41	Meridional gradients of light absorbing carbon over northern Europe	DARREL GIBSON BAUMGARDNER Kok, G. Kraemer, M. et al.	ENVIRONMENTAL RESEARCH LETTERS	2008
42	Tropospheric ozone sources and wave activity over Mexico City and Houston during MILAGRO/Intercontinental Transport Experiment (INTEX-B) Ozonesonde Network Study, 2006 (IONS-06)	DARREL GIBSON BAUMGARDNER L. Ladino Thompson, A. M. et al.	ATMOSPHERIC CHEMISTRY AND PHYSICS	2008
43	Supersaturations, microphysics and nitric acid partitioning in a cold cirrus cloud observed during CR-AVE 2006: an observation-modelling intercomparison study	DARREL GIBSON BAUMGARDNER Gensch, I. V. Bunz, H. et al.	ENVIRONMENTAL RESEARCH LETTERS	2008
44	Scavenging of black carbon by ice crystals over the northern Pacific	DARREL GIBSON BAUMGARDNER Subramanian, R. Twohy, C. et al.	GEOPHYSICAL RESEARCH LETTERS	2008

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	Clouds and Fog: Measurement Techniques In Situ	DARREL GIBSON BAUMGARDNER Gayet J.-F. Korolev A. et al.	Capítulo de un Libro	2014	9780123822260
2	ACCRI theme 4: Contrails and contrail-specific microphysics	DARREL GIBSON BAUMGARDNER Heymsfield A. DeMott P. et al.	Capítulo de un Libro	2009	9781606923207



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PARTICIPACIÓN EN PROYECTOS

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

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PARTICIPACIÓN EN TESIS

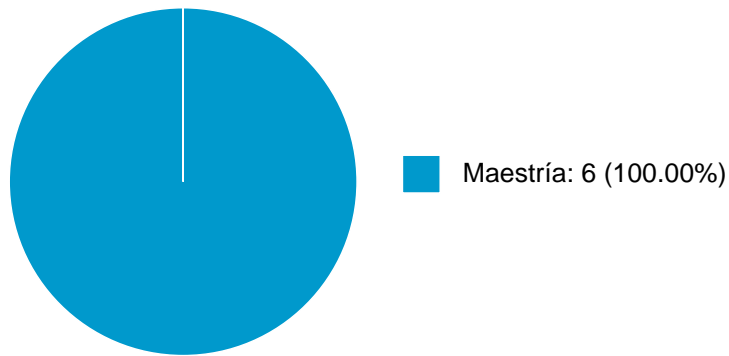
No se encuentran registros en la base de datos de TESIUNAM asociados a:

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	FISICA DE PARTICULAS ATMOSFERICAS	Centro de Ciencias de la Atmósfera	3	2012-2
2	Maestría	TEMA SELECTO	Centro de Ciencias de la Atmósfera	4	2009-2
3	Maestría	TEMA SELECTO	Instituto de Geofísica	1	2009-1
4	Maestría	TEMA SELECTO	Centro de Ciencias de la Atmósfera	4	2009-1
5	Maestría	TEMA SELECTO	Instituto de Geología	1	2008-1
6	Maestría	TEMA SELECTO	Centro de Ciencias de la Atmósfera	1	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