

# LUCAS ALADOS ARBOLEDAS

Grupo de Investigación: FÍSICA DE LA ATMÓSFERA (Cod.: RNM119)

Departamento: Universidad de Granada. Física Aplicada

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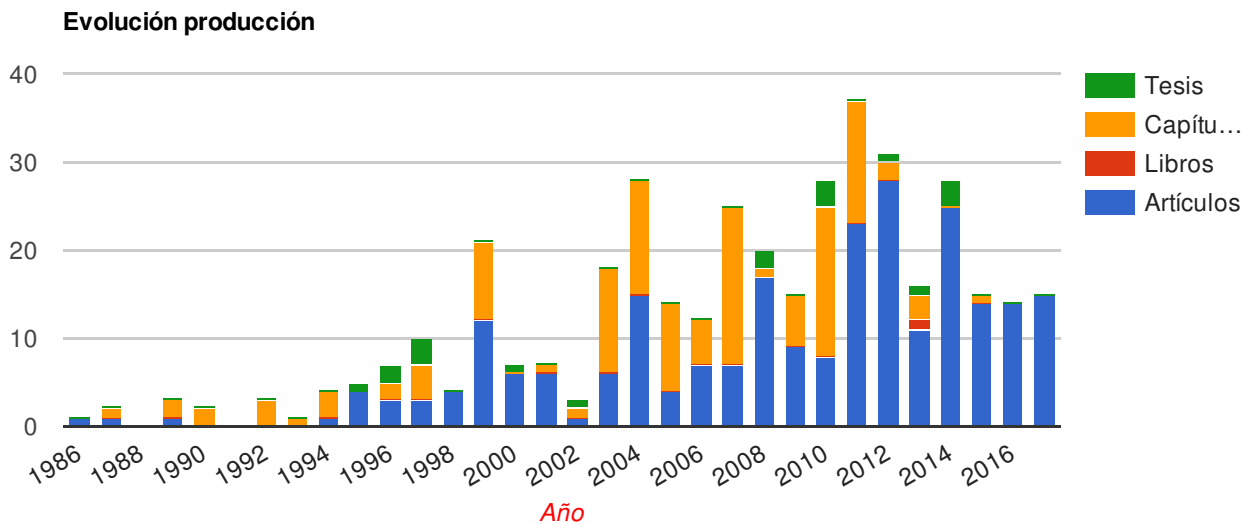
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Ficha del Directorio

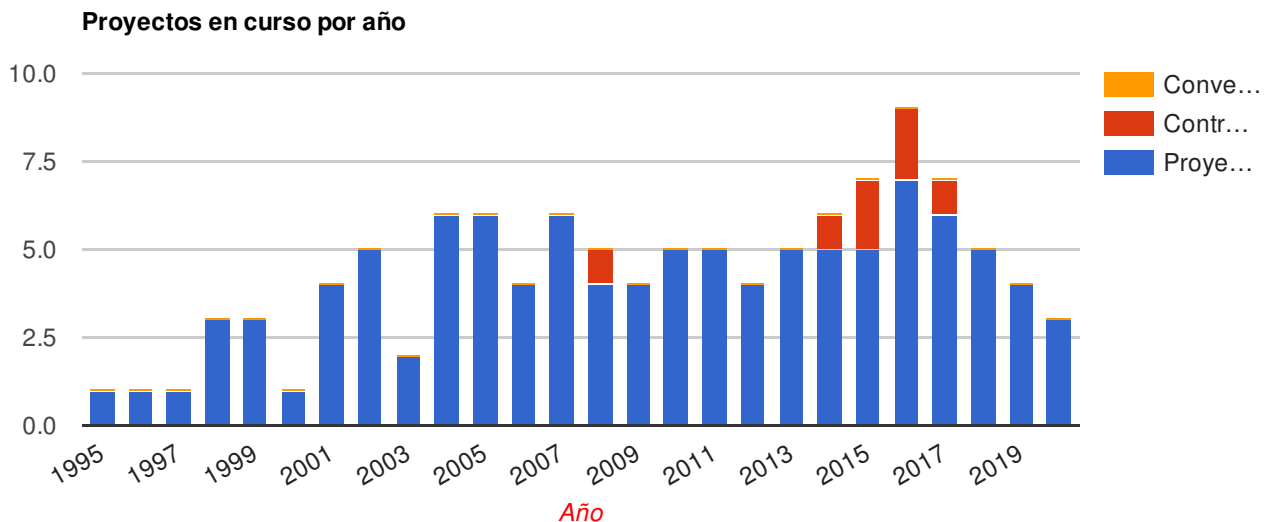
## Producción 396

Artículos (246) Libros (1) Capítulos de Libros (131) Tesis dirigidas (18)



## Proyectos dirigidos 30

Proyectos (26) Contratos (4) Convenios (0)



## Actividades 12

<b>Título publicación</b>	<b>Fuente</b>	<b>Tipo</b>	<b>Fecha</b>
A new conventional regression model to estimate hourly photosynthetic photon flux density under all sky conditions	International journal of climatology	Articulo	2017
A new methodology for pbl height estimations based on lidar depolarization measurements: analysis and comparison against mwr and wrf model-based results	Atmospheric chemistry and physics	Articulo	2017
Assessment of the radiative effects of aerosols in an on-line coupled model over the iberian peninsula	Atmospheric chemistry and physics	Articulo	2017
Black carbon radiative forcing derived from aeronet measurements and models over an urban location in the southeastern iberian peninsula	Atmospheric research	Articulo	2017
Cloud cover detection combining high dynamic range sky images and ceilometer measurements	Atmospheric research	Articulo	2017
Comparative assessment of grasp algorithm for a dust event over granada (spain) during charmex-adrimed 2013 campaign	Atmospheric measurement techniques	Articulo	2017
Evaluating the representation of aerosol optical properties using an online coupled model over the iberian peninsula	Atmospheric chemistry and physics	Articulo	2017
Microphysical characterization of long-range transported biomass burning particles from north america at three earlinet stations	Atmospheric chemistry and physics	Articulo	2017
Monumental heritage exposure to urban black carbon pollution	Atmospheric environment	Articulo	2017
Multi year aerosol characterization in the tropical andes and in adjacent amazonia using aeronet measurements	Atmospheric environment	Articulo	2017
Near-real-time processing of a ceilometer network assisted with sun-photometer data: monitoring a dust outbreak over the iberian peninsula	Atmospheric chemistry and physics	Articulo	2017
Origin and pathways of the mineral dust transport to two spanish earliet sites: effect on the observed columnar and range-resolved dust optical properties	Atmospheric research	Articulo	2017
Remote sensing of lunar aureole with a sky camera: adding information in the nocturnal retrieval of aerosol properties with grasp code	Remote sensing of environment	Articulo	2017
Spatial and temporal variability of carbonaceous aerosols: assessing the impact of biomass burning in the urban environment	Science of the total environment	Articulo	2017
Spatio-temporal monitoring by ground-based and air- and space-borne lidars of a moderate saharan dust event affecting southern europe in june 2013 in the framework of the adrimed/charmex campaign	Air quality, atmosphere and health	Articulo	2017
A comparative study of aerosol microphysical properties retrieved from ground-based remote sensing and aircraft in situ measurements during a saharan dust event	Atmospheric measurement techniques discussions	Articulo	2016
A methodology for investigating dust model performance using synergistic earlinet/aeronet dust concentration retrievals	Atmospheric measurement techniques	Articulo	2016
Assessment on lidar depolarization uncertainty by means of a polarimetric lidar simulator	Atmospheric measurement techniques	Articulo	2016
Assimilation of humidity and temperature observations retrieved from ground-based microwave radiometers into a convective-scale nwp model	Quarterly journal of the royal meteorological society	Articulo	2016
Calipso climatological products: evaluation and suggestions from earlinet	Atmospheric chemistry and physics	Articulo	2016

Effect of hygroscopic growth on the aerosol light-scattering coefficient: a review of measurements, techniques and error sources	Atmospheric environment	Articulo	2016
Overview of the chemistry-aerosol mediterranean experiment/aerosol direct radiative forcing on the mediterranean climate (charmex/adrimed) summer 2013 campaign	Atmospheric chemistry and physics	Articulo	2016
Pbl height estimation based on lidar depolarisation measurements (polaris)	Atmospheric chemistry and physics	Articulo	2016
Profiling of aerosol microphysical properties at several earlinet/aeronet sites during the july 2012 charmex/emep campaign	Atmospheric chemistry and physics	Articulo	2016
Sensitivity of uv erythral radiation to total ozone changes under different sky conditions: results for granada, spain	Photochemistry and photobiology	Articulo	2016
Statistical study of day and night hourly patterns of columnar aerosol properties using sun and star photometry measurements	Proceedings of spie - the international society for optical engineering	Articulo	2016
Surface-parallel sensor orientation for assessing energy balance components on mountain slopes	Boundary-layer meteorology	Articulo	2016
Synergic estimation of columnar integrated aerosol properties and their vertical resolved profiles in respect to the scenarios of dust intrusions over granada	Atmospheric environment	Articulo	2016
The new sun-sky-lunar cimel ce318-t multiband photometer: a comprehensive performance evaluation	Atmospheric measurement techniques discussions	Articulo	2016
A long-term study of new particle formation in a coastal environment: meteorology, gas phase and solar radiation implications	Science of the total environment	Articulo	2015
Aerosol cloud interaction: a multiplatform-scenario-based methodology	Proceedings of spie 2015	Capítulo de libro	2015
Aerosol properties over the western mediterranean basin: temporal and spatial variability		Articulo	2015
Aerosol scattering and absorption angström exponents as indicators of dust and dust-free days over granada (spain)	Atmospheric research	Articulo	2015
Assessment of african desert dust levels over the southwestern spain at sea level using in-situ aerosol optical and microphysical properties	Tellus series b chemical and physical meteorology	Articulo	2015
Earlinet: potential operationality of a research network	Atmospheric measurement techniques	Articulo	2015
Evaluation of the impact of transportation changes on air quality	Atmospheric environment	Articulo	2015
High temporal resolution estimates of columnar aerosol microphysical parameters from spectrum of aerosol optical depth by linear estimation: application to long-term aeronet and star-photometry measurements	Atmospheric measurement techniques discussions	Articulo	2015
High temporal resolution estimates of columnar aerosol microphysical parameters from spectrum of aerosol optical depth by linear estimation: application to long-term aeronet and star-photometry measurements	Atmospheric measurement techniques discussions	Articulo	2015
Hygroscopic growth of atmospheric aerosol particles based on active remote sensing and radiosounding measurements: selected cases in southeastern spain	Atmospheric measurement techniques discussions	Articulo	2015
Intercomparisons of mobility size spectrometers and condensation particle counters in the frame of the spanish atmospheric observational aerosol network	Aerosol science and technology	Articulo	2015

Multi-exposure adaptive threshold technique for cloud detection with sky imagers	Solar energy	Articulo	2015
Relationship between fraction of backscattered light and asymmetry parameter	Journal of aerosol science	Articulo	2015
Role of spheroids particles on closure studies for aerosol microphysical properties	Quarterly journal of the royal meteorological society	Articulo	2015
Study of mineral dust entrainment in the planetary boundary layer by lidar depolarisation technique	Tellus. series b: chemical and physical meteorology	Articulo	2015
A method to determine the ozone radiative forcing in the ultraviolet range from experimental data	Journal of geophysical research atmospheres	Articulo	2014
Active and passive remote sensing for monitoring the planetary boundary layer height	Optica pura y aplicada	Articulo	2014
Aerosol light-scattering enhancement due to water uptake during the tcap campaign	Atmospheric chemistry and physics	Articulo	2014
Aerosol properties over the western mediterranean basin: temporal and spatial variability	Atmospheric chemistry and physics discussions	Articulo	2014
Aerosol radiative effects in the ultraviolet, visible, and near-infrared spectral ranges using long-term aerosol data series over the iberian peninsula	Atmospheric chemistry and physics	Articulo	2014
Aerosol transport over the western mediterranean basin: evidence of the contribution of fine particles to desert dust plumes over alborán island	Journal of geophysical research atmospheres	Articulo	2014
Assimilation of lidar signals: application to aerosol forecasting in the mediterranean basin	Atmospheric chemistry and physics discussions	Articulo	2014
Assimilation of lidar signals: application to aerosol forecasting in the western mediterranean basin	Atmospheric chemistry and physics	Articulo	2014
Characterizing the atmospheric aerosol by active and passive remote sensing: microphysical properties and hygroscopic growth effects		Tesis doctoral	2014
Carbonaceous particles in the atmosphere: experimental and modelling issues		Articulo	2014
Characterization of atmospheric aerosol particles using in-situ techniques: optical, chemical and hygroscopic properties		Tesis doctoral	2014
Characterization of atmospheric aerosols for a long range transport of biomass burning particles from canadian forest fires over the southern iberian peninsula in july 2013	Optica pura y aplicada	Articulo	2014
Characterization of atmospheric aerosols for a long range transport of biomass burning particles from canadian forest fires over the southern iberian peninsula in july 2031	Optica pura y aplicada	Articulo	2014
Determination and analysis of in situ spectral aerosol optical properties by a multi-instrumental approach	Atmospheric measurement techniques discussions	Articulo	2014
Earlinet: towards an advanced sustainable european aerosol lidar network	Atmospheric measurement techniques discussions	Articulo	2014
Efficiency of clouds on shortwave radiation using experimental data	Applied energy	Articulo	2014
Estimating aerosol characteristics from solar irradiance measurements at an urban location in southeastern spain	Journal of geophysical research. d, atmospheres	Articulo	2014
Evaluation of aeronet precipitable water vapor versus microwave radiometry, gps, and radiosondes at arm sites	Journal of geophysical research. d, atmospheres	Articulo	2014
Evaluation of enhancement events of total solar irradiance during cloudy conditions at granada (southeastern spain)	Atmospheric research	Articulo	2014
Experimental determination of uv- and vis- lidar overlap function		Articulo	2014

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Identification of fine (pm1) and coarse (pm10-1) sources of particulate matter in an urban environment	Atmospheric environment	Articulo	2014
Lidar depolarization technique: assessment of the hardware polarizing sensitivity and applications		Tesis doctoral	2014
Longwave aerosol radiative effects during an extreme desert dust event in southeastern Spain	Atmospheric research	Articulo	2014
Multispectral elastic scanning lidar for flares research: characterizing the electronic subsystem and application	Optics express	Articulo	2014
Retrieving aerosol microphysical properties by lidar; radiometer inversion code (liric) for different aerosol types	Journal of geophysical research. d, atmospheres	Articulo	2014
Study of the relative humidity dependence of aerosol light-scattering in southern Spain	Tellus series b chemical and physical meteorology	Articulo	2014
Tropospheric water vapour and relative humidity profiles from lidar and microwave radiometry	Atmospheric measurement techniques discussions	Articulo	2014
Variability of Mediterranean aerosols properties at three regional background sites in the western Mediterranean basin	Proc. of SPIE - Remote Sensing of Clouds and the Atmosphere	Articulo	2014
Aerosol size distribution from inversion of solar radiances and measured at ground-level during SPALI10 campaign	Atmospheric research	Articulo	2013
Analysis of lidar depolarization calibration procedure and application to the atmospheric aerosol characterization	International journal of remote sensing	Articulo	2013
Caracterización de las propiedades radiativas y microfísicas del aerosol atmosférico en la campaña Veleta 2002	Facultad de ciencias	Tesis doctoral	2013
Direct-sun total ozone data from a spectroradiometer: methodology and comparison with satellite observations	Atmospheric measurement techniques discussions	Articulo	2013
Eruption of the Eyjafjallajökull volcano in spring 2010: multiwavelength Raman lidar measurements of sulphate particles in the lower troposphere	Journal of geophysical research atmospheres	Articulo	2013
Evaluation of the desert dust effects on global, direct and diffuse spectral ultraviolet irradiance	Tellus. series b: chemical and physical meteorology	Articulo	2013
Four-dimensional distribution of the 2010 Eyjafjallajökull volcanic cloud over Europe observed by EARLINET	Atmospheric chemistry and physics	Articulo	2013
Medioambiente: partículas ultrafinas y sus instrumentos de medida		Libros	2013
Monitoring the daily evolution of the atmospheric aerosol in an urban environment by means of remote sensing and in-situ methodologies	Juan Antonio Morente Chiquero: in memoriam	Capítulo de libro	2013
Optical properties of Saharan dust aerosols, sea spray and cloud droplets from AMICOS 2013 airborne campaign	Proceedings of the 1st Iberian meeting on aerosol science and technology - RICTA 2013	Capítulo de libro	2013
Retrieval of aerosol microphysical properties by means of sun and star photometry at Granada, Spain	International journal of remote sensing	Articulo	2013
Short-wave radiative forcing at the surface for cloudy systems at a midlatitude site	Tellus. series b: chemical and physical meteorology	Articulo	2013
Statistical analysis of aerosol optical properties retrieved by Raman lidar over southeastern Spain	Tellus. series b: chemical and physical meteorology	Articulo	2013
Towards a virtual framework for bilingual self-learning in subjects related to atmospheric physics for the degree in physics and environmental sciences	Proceedings of EDULEARN13 conference	Capítulo de libro	2013
Tropospheric water vapour and relative humidity profiles from lidar and microwave radiometry	Atmospheric measurement techniques discussions	Articulo	2013
Variability of carbonaceous aerosols in remote, rural, urban			

variability of carbonaceous aerosols in remote, rural, urban and industrial environments in spain: implications for air quality policy	Atmospheric chemistry and physics	Articulo	2013
A regional model of european aerosol transport: evaluation with sun photometer, lidar and air quality data	Atmospheric environment	Articulo	2012
Analysis of the columnar radiative properties retrieved during african desert dust events over granada (2005-2010) using principal plane sky radiances and spheroids retrieval procedure	Atmospheric research	Articulo	2012
Aerosol scattering and absorption angström exponents during desert dust events over granada	European aerosol conference 2012	Capítulo de libro	2012
Aerosol properties over two urban sites in south spain during an extended stagnation episode in winter season	Atmospheric environment	Articulo	2012
Aerosol radiative forcing during african desert dust events (2005-2010) over south-eastern spain	Atmospheric chemistry and physics discussion	Articulo	2012
Aerosol radiative forcing during african desert dust events (2005-2010) over southeastern spain		Articulo	2012
Air masses and weather types: a useful tool for characterizing precipitation chemistry and wet deposition	Aerosol and air quality research	Articulo	2012
An international network of ground-based microwave radiometers for the assimilation of temperature and humidity profiles into nwp models	Proceedings of the 9th international symposium on tropospheric profiling 2012	Capítulo de libro	2012
Atmospheric vertical profiling by raman lidar		Tesis doctoral	2012
Automatic determination of the boundary layer height using lidar: one-year analysis over southeastern spain		Articulo	2012
Calibration of an all-sky camera for obtaining sky radiance at three wavelengths	Atmospheric measurement techniques discussions	Articulo	2012
Classification of aerosol radiative properties during african desert dust intrusions over southeastern spain by sector origins and cluster analysis	Journal of geophysical research	Articulo	2012
Cloud screening and quality control algorithm for star photometer data: assessment with lidar measurements and with all-sky images		Articulo	2012
Cloud screening and quality control algorithm for star photometer data: assessment with lidar measurements and with all-sky-images	Atmospheric measurement techniques discussions	Articulo	2012
Columnar aerosol properties from sun-and-star photometry: statistical comparisons and day-to-night dynamic		Articulo	2012
Day and night columnar aerosol properties at granada (spain) retrieved from sun-and star-photometry	Atmospheric chemistry and physics discussions	Articulo	2012
Direct-sun total ozone data from a bentham spectroradiometer: methodology and comparison with satellite observations	Atmospheric measurement techniques discussions	Articulo	2012
Estimation downwelling longwave irradiance under all sky conditions	International journal of climatology	Articulo	2012
Effects of an extreme desert dust event on the spectral ultraviolet irradiance at el arenosillo (spain)	Journal of geophysical research. d, atmospheres	Articulo	2012
Experimental and modeled uv erythemal irradiance under overcast conditions: the role of cloud optical depth	Atmospheric chemistry and physics discussions	Articulo	2012
Experimental and modeled uv erythemal irradiance under overcast conditions: the role of cloud optical depth	Atmospheric chemistry and physics	Articulo	2012
Extreme ultraviolet index due to broken clouds at a midlatitude site, granada (southeastern spain)	Atmospheric research	Articulo	2012



Global and diffuse shortwave irradiance during a strong desert dust episode at granada (spain)	Atmospheric research	Articulo	2012
Influence of desert dust intrusions on ground-based and satellite-derived ultraviolet irradiance in southeastern spain	Journal of geophysical research	Articulo	2012
Investigation of fine and coarse aerosol contributions to the total aerosol light scattering:shape effects and concentration profiling by raman lidar measurements	Journal of quantitative spectroscopy & radiative transfer	Articulo	2012
Monitoring of the eyjafjallajökull volcanic aerosol plume over the iberian peninsula by means of four earlinet lidar stations	Atmospheric chemistry and physics	Articulo	2012
Optical properties and chemical composition of aerosol particles at an urban location: an estimation of the aerosol mass scattering and absorption efficiencies	Journal of geophysical research	Articulo	2012
Retrieval of aerosol microphysical properties by means of sun and star photometry at granada, spain	International journal of remote sensing	Articulo	2012
Retrievals of precipitable water vapor using star photometry: assessment with raman lidar and link to sun photometry	Journal of geophysical research	Articulo	2012
Stratospheric aod after the 2011 eruption of nabro volcano measured by lidars over the northern hemisphere	Environmental research letters	Articulo	2012
Study on aerosol properties over madrid (spain) by multiple instrumentation during spali10 lidar campaign	Optica pura y aplicada	Articulo	2012
A new approach to improve the near-range response of a lidar system at 1064 nm	Book of extended abstracts of v reunion española de ciencia y tecnologia de aerosoles	Capítulo de libro	2011
Aerosol closure study by lidar, sun photometry, and airborne optical counters during damocles field campaign at el arenosillo sounding station, spain	Journal of geophysical research	Articulo	2011
Aerosol properties during an extended stagnation episode at two urban sites in south-eastern spain	Book of extended abstract of v reunion española de ciencia y tecnologia de los aerosoles	Capítulo de libro	2011
Aerosol radiative properties during desert dust events at granada (2005-2010) - air mass classification.	Book of extended abstracts of v reunion española de ciencia y tecnologia de aerosoles	Capítulo de libro	2011
Aerosol size distribution from inversion of solar radiances and measured at ground-level during spali10 campaign	Proceedings of the global conference on global warming 2011	Capítulo de libro	2011
Alfa: a database for light scattering simulations with atmospheric aerosol applications	Optica pura y aplicada	Articulo	2011
Applications of optical spectroscopy and stable isotope analyses to organic aerosol source discrimination in an urban area	Atmospheric environment	Articulo	2011
Aerosol chemical and optical properties in granada: analysis of the aerosol mass scattering and absorption efficiencies.	V reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2011
Aerosol radiative properties retrieved during saharan dust events in southeastern spain from 2005 to 2008	Optica pura y aplicada	Articulo	2011
Atmospheric aerosol characterization by dual lidar depolarization	Book of extended abstracts of ¿quinta reunión española de ciencia y tecnología de aerosoles¿	Capítulo de libro	2011
Black carbon aerosols over an urban area in south-eastern spain: changes detected after the 2008 economic crisis	Atmospheric environment	Articulo	2011
Calibration of 1064 nm-backscatter profiles with a multiwavelength raman lidar	Romanian journal in physics	Articulo	2011
Evaluation of the aerosol forcing efficiency in the uv erythemal range at granada (spain)	Book of extended abstract of v reunion española de ciencia y tecnologia del aerosol	Capítulo de libro	2011
Evaluation of the aerosol forcing efficiency in the uv			

Evaluation of the aerosol forcing efficiency in the uv erythemal range at granada, spain	Journal of geophysical research	Articulo	2011
First results of aerosol microphysical properties by 3+2 raman lidar at earlinet granada station	Romanian journal in physics	Articulo	2011
Improvements in star photometry for aerosol characterizations	Journal of aerosol science	Articulo	2011
Long-term trends of total ozone column over the iberian peninsula for the period 1979-2008	Atmospheric environment	Articulo	2011
Monitoring of the eyjafjallajökull volcanic aerosol plume over the iberian peninsula by means of four earlinet lidar stations	Atmospheric chemistry and physics discussions	Articulo	2011
Multi-instrumental detection of the mixing layer height over granada	Book of extended abstracts of ¿quinta reunión española de ciencia y tecnología de aerosoles¿	Capítulo de libro	2011
On the use cirrus clouds for elastic lidar calibration	Optica pura y aplicada	Articulo	2011
Optical and microphysical properties of fresh biomass burning aerosol retrieved by raman lidar, and star- and sun-photometry	Geophysical research letters	Articulo	2011
Quality assurance at the earlinet granada station: characterization of the optical subsystem for a multichannel raman lidar	Optica pura y aplicada	Articulo	2011
Retrieval of the lidar overlap function using raman signals	Optica pura y aplicada	Articulo	2011
Separation of fine and coarse aerosol contributions to the total aerosol light scattering: an aeronet assessment	Atti della accademia peloritana dei pericolanti	Articulo	2011
Short-term variability of experimental ultraviolet and total solar irradiance in southeastern spain	Atmospheric environment	Articulo	2011
Spalinet: the spanish and portuguese aerosol lidar network	Optica pura y aplicada	Articulo	2011
Spalinet: the spanish and portuguese aerosol lidar network [spalinet: la red hispano-portuguesa de lidares de aerosoles]	Optica pura y aplicada	Articulo	2011
Study of aerosol optical properties over the iberian peninsula based on 9-year modis dataset	Proceedings of the global conference on global warming 2011	Capítulo de libro	2011
Synergetic monitoring of saharan dust plumes and potential impact on surface: a case study of dust transport from canary islands to iberian peninsula	Atmospheric chemistry and physics	Articulo	2011
Saharan dust intrusion monitoring. part 1: detection, identification and vertical structure analysis	Book of extended abstracts of v reunion española de ciencia y tecnología de aerosoles	Capítulo de libro	2011
Saharan dust intrusion monitoring. part 2: evaluation of potential dust impact on surface	Book of extended abstracts of v reunion española de ciencia y tecnología de aerosoles	Capítulo de libro	2011
Study of ground-based vertical profiles of tropospheric aerosol in coincidence with calipso overpasses at granada, spain	Book of extended abstracts of ¿quinta reunión española de ciencia y tecnología de aerosoles¿	Capítulo de libro	2011
Study on aerosol properties over madrid (spain) by multiple instrumentation during earlinet lidar intercomparison campaign: spali10	Book of extended abstracts of ¿quinta reunión española de ciencia y tecnología de aerosoles¿	Capítulo de libro	2011
Study on aerosol properties over madrid (spain) by multiple instrumentation during spali10 lidar campaign		Articulo	2011
Total ozone column derived from gome and sciamachy using knmi retrieval algorithms: validation against brewer measurements at the iberian peninsula	Journal of geophysical research	Articulo	2011
Validation of the metop-a total ozone data from gome-2 and iasi using reference ground-based measurements at the iberian peninsula	Remote sensing of environment	Articulo	2011
Water vapour from sun and star photometer as compared	Book of extended abstracts of v		



with passive microwave radiometry: modified k-ciclo for correcting sun photometer calibration	reunion española de ciencia y tecnología de aerosoles	Capítulo de libro	2011
Aerosol direct radiative effects of a transatlantic biomass burning plume over granada, spain	Bok of extended abstracts: iv reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2010
Aerosol properties retrieved from sky radiance at the principal plane for nonspherical particles	Bok of extended abstracts: iv reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2010
Alfa/beta: a dual database for light scattering simulations on atmospheric aerosols	Bok of extended abstracts: iv reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2010
Caracterización del aerosol atmosférico en la ciudad de granada mediante fotometría solar y estelar	Universidad de granada. física aplicada	Tesis doctoral	2010
Characterization of atmospheric aerosols for a long-range transport of biomass-burning from north america over the iberian peninsula	Proceedings of the 25th international laser radar conference	Capítulo de libro	2010
Chemical composition of wet precipitation at the background emep station in víznar (granada, spain) (2002-2006)	Atmospheric research	Articulo	2010
Cloud screening algorithm for starphotometry	Bok of extended abstracts: iv reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2010
Development of a sky imager for cloud classification and aerosol characterization	Universidad de granada. física aplicada	Tesis doctoral	2010
Development of a sky imager for cloud classification and aerosol characterization	Faculta de ciencias. universidad de granada	Tesis doctoral	2010
Earlinet correlative measurements for calipso: first intercomparison results	Journal of geophysical research	Articulo	2010
Estimating absorption and scattering efficiencies for particulates pm10 at an urban site	Bok of extended abstracts: iv reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2010
Evaluation of two correction schemes of particle soot absorption photometer data	Bok of extended abstracts: iv reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2010
Influence of air mass origin on atmospheric particulate matter at a spanish emep station: a five-year study	Bok of extended abstracts: iv reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2010
Influence of the calibration on experimental uv index at a midlatitude site, granada (spain)	Atmospheric measurement techniques discussions	Articulo	2010
Infrared lidar overlap function: an experimental determination	Optics express	Articulo	2010
Long-term aerosol and cloud database from correlative earlinet-calipso observations	Proceedings of the 25th international laser radar conference	Capítulo de libro	2010
Long-term air quality trends over granada, spain	Bok of extended abstracts: iv reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2010
Monitoring of lofted aerosol layers of mineral desert dust with raman lidar and a set of photometers at different altitudes	Bok of extended abstracts: iv reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2010
Monitoring of the eyjafjallajökull ash plume at four lidar stations over the iberian peninsula: 6 to 8 may 2010	Bok of extended abstracts: iv reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2010
On the synergetic use of passive and active remote sensing for atmospheric aerosol radiative effect computations	Proceedings of the 25th international laser radar conference	Capítulo de libro	2010
Physical and optical properties of aerosols over an urban location in spain: seasonal and diurnal variability	Atmospheric chemistry and physics	Articulo	2010

Relationships between spectroscopic properties of high-altitude organic aerosols and sun photometry from ground-based remote sensing	Journal of geophysical research	Articulo	2010
Representativeness of aerosol measurements: earlinet-calipso correlative study	Proceedings of the 25th international laser radar conference	Capítulo de libro	2010
Study on the planetary boundary layer top with raman lidar	Bok of extended abstracts: iv reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2010
Synergetic monitoring of saharan dust plumes and potential impact on surface: a case study of dust transport from canary islands to iberian peninsula	Atmospheric chemistry and physics discussions	Articulo	2010
Synergetic monitoring of saharan dust transported from the canary islands to the iberian peninsula and potential impact on surface	Atmospheric chemistry and physics discussions	Articulo	2010
Use of ground based passive and active remote sensing for the retrieval of aerosol microphysical properties	Bok of extended abstracts: iv reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2010
Variability of aerosol properties in Málaga (Spain)	Bok of extended abstracts: iv reunión española de ciencia y tecnología de aerosoles	Capítulo de libro	2010
A practical framework for learning about weather and climate	International conference on education, research and innovation. iceri	Capítulo de libro	2009
Aerosol lidar intercomparison in the framework of spalinet-the spanish lidar network: methodology and results	IEEE transactions on geoscience and remote sensing	Articulo	2009
Airborne and ground based instrumentation comparison: closure study during capex project	Proceedings of the 8th international symposium on tropospheric profiling: integration of needs, technologies and applications	Capítulo de libro	2009
Analysis of the earlinet correlative measurements for calipso	Proceedings of SPIE 2009	Capítulo de libro	2009
Atmospheric aerosol properties in an urban atmosphere: estio2005	Proceedings of the 8th international symposium on tropospheric profiling: integration of needs, technologies and applications	Capítulo de libro	2009
Coordinated lidar observations of saharan dust over Europe in the frame of earlinet-asos project during calipso overpasses: a strong dust case study analysis with modeling support	Proceedings of SPIE 2009	Capítulo de libro	2009
Determination of aerosol optical properties by a calibrated sky imager	Atmospheric chemistry and physics	Articulo	2009
Earlinet coordinated lidar observations of saharan dust events on continental scale	IOP conference series: earth and environmental science	Articulo	2009
Earlinet for long term aerosol observations	Proceedings of the 8th international symposium on tropospheric profiling: integration of needs, technologies and applications	Capítulo de libro	2009
Earlinet observations of the 14-22-may long-range dust transport event during samum 2006: validation of results from dust transport modelling	Tellus. series b: chemical and physical meteorology	Articulo	2009
Extreme saharan dust event over the southern iberian peninsula in september 2007: active and passive remote sensing from surface and satellite	Atmospheric chemistry and physics discussions	Articulo	2009
Extreme saharan dust event over the southern iberian			2009

peninsula in september 2007: active and passive remote sensing from surface and satellite	Atmospheric chemistry and physics	Articulo	2009
Interannual co2 exchange of a sparse mediterranean shrubland on a carbonaceous substrate	Journal of geophysical research	Articulo	2009
Physical and optical properties of aerosols over an urban location in spain: seasonal and diurnal variability	Atmospheric chemistry and physics discussions	Articulo	2009
Results of the first year of the spanish lidar network - spalinet	IEEE transactions on geoscience and remote sensing	Articulo	2009
Aerosol columnar properties retrieved from cimel radiometers during veleta 2002: vienna visibility conference 2006	Atmospheric environment	Articulo	2008
Aerosol optical properties assessed by an inversion method using the solar principal plane for non-spherical particles: x conference on electromagnetic and light scattering by non-spherical particles	Journal of quantitative spectroscopy & radiative transfer	Articulo	2008
Altitude effect in uv radiation during the evaluation of the effects of elevation and aerosols on the ultraviolet radiation 2002 (veleta-2002) field campaign	Journal of geophysical research atmospheres	Articulo	2008
Calibrated sky imager for aerosol optical properties determination	Atmospheric chemistry and physics discussions	Articulo	2008
Can flux tower research neglect geochemical co2 exchange?	Agricultural and forest meteorology	Articulo	2008
Characterization of a long range transport pollution episode affecting pm in sw spain	Journal of environmental monitoring	Articulo	2008
Consequences of uncertainties in co2 density for estimating net ecosystem co2 exchange by open-path eddy covariance	Boundary-layer meteorology	Articulo	2008
Correction factors for a total scatter/backscatter nephelometer	Journal of quantitative spectroscopy & radiative transfer	Articulo	2008
Development and calibration of a star photometer to measure the aerosol optical depth: smoke observations at a high mountain site	Atmospheric environment	Articulo	2008
Development of a sky imager for cloud cover assessment	Optical society of america. journal a: optics, image science, and vision	Articulo	2008
Intercambios de co2 entre atmosfera y ecosistemas karsticos: aplicabilidad de las técnicas comunmente empleadas	Universidad de granada. física aplicada	Tesis doctoral	2008
Light scattering and absorption properties of aerosol particles in the urban environment of granada, spain	Atmospheric environment	Articulo	2008
Multi-spectral lidar characterization of the vertical structure of saharan dust aerosol over southern spain	Atmospheric environment	Articulo	2008
One year of water vapour raman lidar measurements at the andalusian centre for environmental studies (ceama)	International journal of remote sensing	Articulo	2008
Retrieval of the optical depth by an all-sky ccd camera	Applied optics	Articulo	2008
Sun/star photometry to derive the aerosol optical depth	International journal of remote sensing	Articulo	2008
The european aerosol research lidar network (earlinet): an overview	Igarss-08 (international geoscience and remote sensing symposium 2008)	Capítulo de libro	2008
Técnica lidar para la caracterización atmosférica mediante dispersión elástica y raman	Universidad de granada. física aplicada	Tesis doctoral	2008
Using a sky imager for aerosol characterization: vienna visibility conference 2006	Atmospheric environment	Articulo	2008
Using a trichromatic ccd camera for spectral skylight			

Using a thermographic sea camera for spectral sky light estimation	Applied optics	Articulo	2008
A european research infrastructure for the aerosol study on continental scale: earlinet-asos	Proceedings of spie 2007 (isbn 0277-786x-07)	Capítulo de libro	2007
Adaptation of an empirical model for erythemal ultraviolet irradiance	Annales geophysicae	Articulo	2007
Aerosol optical properties assessed by an inversion method using the solar principal plane for non-spherical particles	Tenth conference on electromagnetics & light scattering	Capítulo de libro	2007
Aerosol radiative forcing efficiency in the uv region over southeastern mediterranean: veleta 2002 campaign	Journal of geophysical research	Articulo	2007
Analysis of different methods to calculate effective resistances and their effect on modelling evapotranspiration of two different patches of vegetation in semi-arid se spain	Hydrology and earth system sciences	Articulo	2007
Analysis of effective resistance calculation methods and their effect on modelling evapotranspiration in two different patches of vegetation in semi-arid se spain	Hydrology and earth system sciences discussions	Articulo	2007
Analysis of the measurements taken by a ceilometer installed in the south of portugal	Proceedings of spie 2007 (isbn 0277-786x-07)	Capítulo de libro	2007
Atmospheric vertical profiles obtained by lidar over evora during capex project	Geoscience and remote sensing symposium, 2007. igarss 2007. ieee international	Capítulo de libro	2007
Caracterizacion del aerosol atmosferico mediante perfiles de depolarizacion lidar	Xxxi reunión bienal de la real sociedad española de física. comunicaciones científicas	Capítulo de libro	2007
Characterization of the atmospheric aerosol by combination of lidar and sun-photometry	Proceedings of spie 2007 (isbn 0277-786x-07)	Capítulo de libro	2007
Correction factors for a total scattering/backscattering nephelometer	Tenth conference on electromagnetics & light scattering	Capítulo de libro	2007
Detection of may 2006 saharan dust outbreak over granada, spain, by combination of active and passive remote sensing	Geoscience and remote sensing symposium, 2007. igarss 2007. ieee international	Capítulo de libro	2007
Determinacion de la altura de la capa limite planetaria (pbl) a partir de medidas lidar y radiosondeos	Xxxi reunión bienal de la real sociedad española de física. comunicaciones científicas	Capítulo de libro	2007
Diseño de prácticas en asignaturas relacionadas con la física en la titulación de cc. ambientales	Xxxi reunión bienal de la real sociedad española de física. comunicaciones científicas	Capítulo de libro	2007
Earlinet correlative measurements for calipso	Proceedings of spie 2007 (isbn 0277-786x-07)	Capítulo de libro	2007
Estimacion del indice uv mediante un modelo empirico	Xxxi reunión bienal de la real sociedad española de física. comunicaciones científicas	Capítulo de libro	2007
Estimation of soil boundary-layer resistance in sparse semiarid stands for evapotranspiration modelling	Journal of hydrology	Articulo	2007
Estructura vertical de una atmosfera urbana determinada mediante lidar durante capex-aeroport	Xxxi reunión bienal de la real sociedad española de física. comunicaciones científicas	Capítulo de libro	2007
Estudio y estimacion de la irradiancia termica atmosferica para cielo despejado en zona semiarida	Xxxi reunión bienal de la real sociedad española de física. comunicaciones científicas	Capítulo de libro	2007
Intercomparison of spanish advanced lidars in the framework of earlinet	Igarss 2007, sensing and understanding our planet	Capítulo de libro	2007
Neural network for the estimation of uv erythemal irradiance			

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Uso del metodo langley astronomico para la calibracion relativa de un fotometro estelar	Xxxi reunión bienal de la real sociedad española de física. comunicaciones científicas	Capítulo de libro	2007
Variations in daytime net carbon and water exchange in a montane shrubland ecosystem in southeast spain	Photosynthetica	Articulo	2007
Atmospheric aerosols during the 2003 heat wave in southeastern spain i: spectral optical depth	Atmospheric environment	Articulo	2006
Atmospheric aerosols during the 2003 heat wave in southeastern spain ii: microphysical columnar properties and radiative forcing	Atmospheric environment	Articulo	2006
Development of an all-sky imager for cloud classification	Second recent advances in quantitative remote sensing	Capítulo de libro	2006
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Preliminary results of a non-spherical aerosol method for the retrieval of the atmospheric aerosol optical properties	Journal of quantitative spectroscopy & radiative transfer	Articulo	2006
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Raman lidar measurements at the andalusian centre for environmental studies, ceama	Optica pura y aplicada	Articulo	2006
Raman-lidar measurements at the andalusian center for environmental studies (ceama)	Second recent advances in quantitative remote sensing	Capítulo de libro	2006
Sun/star photometry to derive the aerosol optical depth	Second recent advances in quantitative remote sensing	Capítulo de libro	2006
Sun/star photometry to derive the aerosol optical depth	Second recent advances in quantitative remote sensing	Capítulo de libro	2006
The eddy covariance technique: a tool to quantify ecosystem c02 exchange.	Acta granatense	Articulo	2006
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Agregación espacial de la evapotranspiración en condiciones semiáridas	Vi simposio sobre el agua en andalucía.	Capítulo de libro	2005
Columnar properties of the atmospheric aerosol during the indalo-2003 field campaign	Abstract of the european aerosol conference (eac-2005)	Capítulo de libro	2005
Comparison of aerosol size distributions measured at ground level and calculated from inversion of solar radiances	Proc. of spie, remote sensing of clouds and the atmosphere	Articulo	2005
Experimental set up to study the cloud radiative effects on uvb at granada (spain)	Geophysical research abstracts	Articulo	2005
Lidar measurements in south-eastern spain	Abstract of the european aerosol conference (eac-2005)	Capítulo de libro	2005



Lidar and radiometric measurements at granada (spain)	Geophysical research abstracts	Capítulo de libro	2005
Multi-annual variability of atmospheric transparency in estonia	Sun & shadow magazine	Articulo	2005
Multi-annual variability of atmospheric transparency in estonia	Sun&shadow magazine. international conference solaris-2005	Capítulo de libro	2005
Preliminary results of a non-spherical aerosol method for the retrieval of the atmospheric aerosol optical properties	8th conference on electromagnetic and light scattering by nonspherical particles: theory, measurements and applications	Capítulo de libro	2005
Retrieval of aerosol optical properties by diogenes, a non-spherical inversion method	Abstract of the european aerosol conference (eac-2005)	Capítulo de libro	2005
Saharan dust outbreak over southeastern spain as detected by sun photometer	Atmospheric environment	Articulo	2005
Study of the atmospheric aerosol during the strong saharan dust event of 2004	Abstract of the european aerosol conference (eac-2005)	Capítulo de libro	2005
A comparison of the columnar aerosol physical parameters retrieved by different methods at indalo-2003	Journal of aerosol science	Articulo	2004
A preliminary intercomparison of aerosol optical depth from cimel-318 and mfr7 at indalo-2003	4ª asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	2004
Aerosol optical depth derived from lidar measurements during veleta-2002 campaign	Remote sensing of clouds and the atmosphere viii, proc. of spie	Capítulo de libro	2004
Aerosol radiative forcing estimated at the top of the atmosphere during veleta 2002 campaign, at armilla, spain	Journal of aerosol science	Articulo	2004
Aerosol related parameters intercomparison of cimel sunphotometers in the frame of the veleta 2002 field campaign	Optica pura y aplicada	Articulo	2004
Albedo y reflectancia de la superficie en la campaña indalo-2003	4ª asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	2004
Altitude effect on uv index deduced from the veleta-2002 experimental campaign (spain)	Irs 2004: current problems in atmospheric radiation	Capítulo de libro	2004
An approach to the climatology of atmospheric aerosol size distributions in southeastern spain	Journal of aerosol science	Articulo	2004
Atmospheric aerosol changes in the vertical followed by sunphotometers and telephotometers during veleta 2002	Journal of aerosol science	Articulo	2004
Comparison of aerosol optical depth from multifilter rotating shadowband radiometer and robotic radiometer cimel ce-318	Journal of aerosol science	Articulo	2004
Correlation between the photometric measurements and toms aerosol index	4ª asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	2004
Diurnal variation of atmospheric aerosol in an urban location followed by means of sunphotometry	Journal of aerosol science	Articulo	2004
Estimación de la radiación uv eritemática mediante redes neuronales	4ª asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	2004
Estimating uv erythemal irradiance by means of neural networks	Photochemistry and photobiology	Articulo	2004
Estudio del efecto de la elevación sobre el aerosol atmosférico en el marco de veleta-2002	4ª asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	2004
Evolution of aerosol columnar properties at the main station of armilla during veleta 2002 field campaign	Journal of aerosol science	Articulo	2004
Examination of surface energy balance closure in a semi-arid region via eddy covariance	4ª asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	2004
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Intercomparación de espectrofotómetros durante la campaña veleta-2002	4ª asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	2004
Intercomparación de espectrorradiómetros licor-1800 en veleta-2002	4ª asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	2004
Inversión de radiancias en el almucantar y plano principal solar en el marco de veleta 2002	4ª asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	2004
Langley calibrations of sunphotometer at sierra nevada, granada, spain.	Optica pura y aplicada	Articulo	2004
Long term changes in aerosol size properties at armilla, granada (spain)	Atmospheric environment	Articulo	2004
Long-term changes in aerosol radiative properties at armilla (spain)	Atmospheric environment	Articulo	2004
Modelling net radiation in semi-arid regions	4ª asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	2004
Size distribution, scattering, extinction and absorption of a desert aerosol in southern spain	Journal of aerosol science	Articulo	2004
Veleta 2002 field campaign a general overview.	Optica pura y aplicada	Articulo	2004
Aerosol optical depth derived from lidar measurements during veleta-2002 campaign	Remote sensing of clouds and the atmosphere viii	Capítulo de libro	2003
Aerosol radiative properties retrieved from sunphotometer measurements at armilla (spain), a suburban area	Journal of the aerosol science. abstract of the european aerosol conference 2003	Capítulo de libro	2003
Aerosol size properties at armilla, granada (spain)	Quarterly journal of the royal meteorological society	Articulo	2003
Análisis de la transmitancia uv-b eritemática a partir de información meteorológica estándar	Proceedings 3ª asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	2003
Atmospheric aerosol characteristics retrieved by sunphotometry and sky radiance measurements in a coastal location	Journal of the aerosol science. abstract of the european aerosol conference 2003	Capítulo de libro	2003
Monitoring atmospheric aerosol properties in an urban location by means of sunphotometry and sky radiance measurements	Journal of the aerosol science. abstract of the european aerosol conference 2003	Capítulo de libro	2003
Métodos de medida del flujo de calor sensible. comportamiento en zonas semi-áridas	Proceedings 3ª asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	2003
Optical properties of the atmospheric aerosol determined by remote sensing and in situ ground based measurements	Journal of the aerosol science. abstract of the european aerosol conference 2003	Capítulo de libro	2003
Parameterizing uv erythemal irradiance under cloudy conditions	Geophysical research abstracts	Articulo	2003
Relationship between net radiation and solar radiation for semi-arid shrub-land	Agricultural and forest meteorology	Articulo	2003
Retrieval of columnar aerosol size distributions from solar transmission and sky radiance methods	Journal of the aerosol science. abstract of the european aerosol conference 2003	Capítulo de libro	2003
Retrieval of surface albedo and aerosol optical properties from satellite data at armilla, spain, during veleta-2002 campaign	Journal of the aerosol science. abstract of the european aerosol conference 2003	Capítulo de libro	2003
Saharan dust outbreak in south-eastern spain followed by sunphotometer measurements. a case study.	Journal of the aerosol science. abstract of the european aerosol conference 2003	Capítulo de libro	2003
Study of kb-1 parameter for sparse vegetation in a semi-arid	Proceedings 3ª asamblea hispano-	Capítulo	2003

region	portuguesa de geodesia y geofísica	de libro	2003
The influence of cloudiness on uv global irradiance (295-385 nm)	Agricultural and forest meteorology	Articulo	2003
The influence of clouds on surface uv erythemat irradiance	Atmospheric research	Articulo	2003
Veleta 2002 field campaign	Geophysical research abstracts	Articulo	2003
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Estudio de las propiedades de los aerosoles atmosféricos en armilla (granada)	Universidad de granada. física aplicada	Tesis doctoral	2002
Optical characteristics of the aerosol in spain and austria and its effect on radiative forcing	Journal of geophysical research atmospheres	Articulo	2002
Size distributions of particles obtained by inversion of spectral extinction and scattering measurements	Optics and cosmic dust	Capítulo de libro	2002
Aerosol properties retrieved from sunphotometer measurements at armilla (spain), a suburban area	Journal of aerosol science	Articulo	2001
Assessment of the aerosol radiative forcing at granada	Journal of aerosol science	Articulo	2001
Dependence of one-minute global irradiance probability density distributions on hourly irradiation	Energy	Articulo	2001
Evaluating the long-term water balance of arid zone stream bed vegetation using evapotranspiration modelling and hillslope runoff measurements	Journal of hydrology	Articulo	2001
Modelización de la evapotranspiración real en rodales de tres especies vegetales del se español.	V simposio sobre el agua en andalucía	Capítulo de libro	2001
On the use of a cloud modification factor for solar uv (290-385 nm) spectral range	Theoretical and applied climatology	Articulo	2001
Performance reduction of solar irradiance parametric models due to limitations in required aerosol data: case of the cpcr2 model	Theoretical and applied climatology	Articulo	2001
Comparison of cloudless sky parameterizations of solar irradiance at various spanish midlatitude locations	Theoretical and applied climatology	Articulo	2000
Empirical modeling of hourly direct irradiance by means of hourly global irradiance	Energy	Articulo	2000
Estimacion de las propiedades ópticas de los aerosoles a partir de medidas de radiancia espectral del cielo	Universidad de granada. física aplicada	Tesis doctoral	2000
Estimating solar ultraviolet irradiance (290-385 nm) by means of the spectral parametric models: spctral2 and smarts2	Annales geophysicae	Articulo	2000
Estimation of photosynthetically active radiation under cloudy conditions	Agricultural and forest meteorology	Articulo	2000
Optical characteristics of the aerosol in austria and spain	Journal of aerosol science	Articulo	2000
Parametric models to estimate photosynthetically active radiation in spain	Agricultural and forest meteorology	Articulo	2000
A comparison of ground level solar radiative effects of recent volcanic eruptions	Atmospheric environment	Articulo	1999
A simple all weather model to estimate ultraviolet solar radiation (290-385 nm)	Journal of applied meteorology	Articulo	1999
Aerosol size distributions derived from combined ground-based measurements of scattering and extinction	Journal of aerosol science	Articulo	1999
Análisis comparativo de la distribución relativa de la radiancia y luminancia en el almucántar solar	I asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	1999
Análisis del efecto de la estructura vertical de la atmósfera	I asamblea hispano-portuquesa de	Capítulo	.....

en los modelos de estimación de la irradiancia térmica atmosférica a partir de los datos de superficie	geodesia y geofísica	de libro	1999
Análisis y modelización de los valores de irradiancia solar de un minuto	I asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	1999
Calibrado de un espectrorradiómetro de campo:técnica langley y lámpara estándar	I asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	1999
Caracterización de la distribución angular de la radiancia del cielo nuboso en sabinal (almería)	I asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	1999
Dependencia de los valores de kt con la altura y con la elevación solar en sierra nevada para días despejados	I asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	1999
Direct and diffuse photosynthetically active radiation: measurements and modelling	Agricultural and forest meteorology	Articulo	1999
Effects of natural ventilation and solar radiation on the performance of pyrgeometers	Journal of atmospheric and oceanic technology	Articulo	1999
Estudio de la detección e impacto de dos erupciones volcánicas en las componentes de la irradiancia global a nivel de superficie: el chichón y mt. pinatubo	I asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	1999
Estimación de la radiación solar global ultravioleta mediante imágenes meteosat	Teledetección, avances y aplicaciones	Capítulo de libro	1999
Horizontal extinction of urban aerosol in vienna and granada and the influence of agriculture activities	Journal of aerosol science	Articulo	1999
Obtención del espesor óptico de aerosoles sobre tierra a partir de imágenes avhrr	I asamblea hispano-portuguesa de geodesia y geofísica	Capítulo de libro	1999
One minute k(b) and k(d) probability density distributions conditioned to the optical air mass	Solar energy	Articulo	1999
Performance validation of murac, a clear sky radiance model proposal, by means of skyscan 834 data set	Energy	Articulo	1999
Prediction of global irradiance on inclined surfaces from horizontal global irradiance	Energy	Articulo	1999
The european community cloudless sky radiance model. an evaluation by means of the skyscan&#039;834 data set	Theoretical and applied climatology	Articulo	1999
Validation of an empirical model for photosynthetically active radiation	International journal of climatology	Articulo	1999
Volcanic aerosol effects on radiometric series registered at spain	Journal of aerosol science	Articulo	1999
Determination of aerosol optical thickness from measurements of spectral sky radiance	Journal of aerosol science	Articulo	1998
Ground based ultraviolet (290-385 nm) and broadband solar radiation measurements in south-eastern spain	International journal of climatology	Articulo	1998
One-minute global irradiance probability density distributions conditioned to the optical air mass	Solar energy	Articulo	1998
Reply to comment on local-scale variability of solar radiation in a mountainous region	Journal of applied meteorology	Articulo	1998
A comparative study of algorithms for estimating land surface temperature from avhrr data	Remote sensing of environment	Articulo	1997
Aplicaciones de los satelites meteorologicos polares al seguimiento de procesos medioambientales	Recursos naturales y medio ambiente en el sureste peninsular	Capítulo de libro	1997
Determinacion de las características opticas de los aerosoles mediante teledeteccion.	Teledeteccion aplicada a la gestion de recursos naturales y medio litoral marino	Capítulo de libro	1997
Estudio de la modelizacion de la radiacion fotosinteticamente activa	Universidad de granada. física aplicada	Tesis doctoral	1997
Evolution of solar radiative effects of mount pinatubo at	Tellus. series b: chemical and	Articulo	1997

ground level	physical meteorology	Articulo	1997
Fire detection and growth monitoring using a multitemporal technique on avhrr mid-infrared and thermal channels	Remote sensing of environment	Articulo	1997
Medida, caracterizacion y modelizacion de la irradiancia termica atmosferica	Universidad de granada. física aplicada	Tesis doctoral	1997
Obtencion de la irradiancia global y de la irradiancia fotosinteticamente activa a partir de imagenes meteosat	Teledeteccion aplicada a la gestion de recurso naturales y medio litoral marino	Capítulo de libro	1997
Uso de las imagenes avhrr para el seguimiento de incendios	Teledeteccion aplicada ala gestion de recursos naturales y medio litoral marino	Capítulo de libro	1997
Variabilidad espacio-temporal de la radiacion solar	Universidad de granada. física aplicada	Tesis doctoral	1997
Analisis de la radiacion solar de alta montaña y a nivel del mar. un estudio cualitativo	Avances en geofísica y geodesia	Articulo	1996
Caracterizacion y modelizacion de la distribucion angular de la radiancia del cielo en presencia de nubes	Universidad de granada. física aplicada	Tesis doctoral	1996
Contribución al estudio de la radiación difusa del cielo sobre superficies con cualquier orientación e inclinación	Universidad de granada. física aplicada	Tesis doctoral	1996
Contribución a la caracterización radiométrica de sierra nevada	Sierra nevada: conservacion y desarrollo sostenible	Capítulo de libro	1996
Estudio de la influencia de la nubosidad en la radiancia del cielo en sierra nevada	Sierra nevada: conservacion y desarrollo sostenible	Capítulo de libro	1996
Performance of global to direct/diffuse decomposition models before and after the eruption of mt. pinatubo, june 1991	Solar energy	Articulo	1996
Primeros resultados del análisis de métodos de corrección de las medidas de irradiancia difusa con banda de sombra	Avances en geofísica y geodesia	Articulo	1996
Caracterización y modelización de la irradiancia solar difusa	Universidad de granada. otros departamentos	Tesis doctoral	1995
On shadowband correction methods for diffuse irradiance measurements	Solar energy	Articulo	1995
Pinatubo eruption effects on solar-radiation at almeria (36.83-degrees-n, 2.41-degrees-w)	Tellus. series b: chemical and physical meteorology	Articulo	1995
Solar radiation resource assessment by means of silicon cells	Solar energy	Articulo	1995
The estimation of thermal atmospheric radiation under cloudy conditions	International journal of climatology	Articulo	1995
Cloudless sky parameterization of solar irradiance	Renewable energy	Articulo	1994
Evaluation of microclimate solar radiation in specific areas	Prediction of solar radiation in areas with a specific microclimate	Capítulo de libro	1994
Influencia de la escala temporal en la evaluación de recursos energéticos solares	Energías limpias en progreso. vii congreso ibérico de energía solar	Capítulo de libro	1994
Ultraviolet solar radiation measurements in south spain	Renewable energy. climate change. energy and the environment	Capítulo de libro	1994
Evaluación de los recursos energéticos solares de la comarca de cuevas del almanzora	Recursos naturales y medio ambiente de cuevas del almanzora	Capítulo de libro	1993
Matching silicon cells and thermopile pyranometers responses	Renewable energy. technology and the environment	Capítulo de libro	1992
Parameterizing cloud radiation effects	Irs&#039;92: current problems in atmospheric radiation	Capítulo de libro	1992
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Contribution to the graphical analysis of the sky radiance and angular distribution of global irradiance	Solar&#039;90. proceedings of the 1990 annual conference	Capítulo de libro	1990
A model for climatological estimations of global, difusse and direct solar radiation on a horizontal surface	Solar energy	Articulo	1989
Microscale distribution of global radiation, correlation between global radiation and meteorological parameteres and geographical characteristics	European solar microclimates. final report	Capítulo de libro	1989
Preliminary results of a solar radiation network in a high mountain region	Solar&#039;89. proceedings of the 1989 annual conference	Capítulo de libro	1989
On the estimation of long-wave radiation flux from clear skies	Theoretical and applied climatology	Articulo	1987
Primeros resultados de las medidas del flujo de radiación térmica de la atmósfera	Vª asamblea nacional de geodesia y geofísica	Capítulo de libro	1987
Thermal radiation from clodless skies in granada	Theoretical and applied climatology	Articulo	1986

	<b>Título proyecto</b>	<b>Tipo</b>	<b>Inicio</b>	<b>Fin</b>
1	Interaccion nube aerosol radiacion	Proyecto	12/30/16	12/29/20
2	Actris-2 - aerosols, clouds, and trace gases research infrastructure	Proyecto	5/1/15	5/1/19
3	Equipamiento del iista para la monitorización e investigación del cambio global en el marco de los erics (european research infrastructure consortia): icos, lifewatch y actris	Proyecto	1/1/16	12/31/18
4	Second stage of research and development project to prevent and/or reduce icing of the installations of sierra nevada ski resort	Contrato	9/20/16	10/31/17
5	Seguimiento regional del aerosol atmosferico en tres dimensiones combinando lidar multiespectral y red de ceilometros-radiometros.	Proyecto	1/1/14	6/30/17
6	Seguimiento regional del aerosol atmosférico en tres dimensiones combinando lidar multiespectral y red de ceilómetros-radiómetros (triaeromonitor)	Proyecto	1/1/14	12/31/16
7	Diagnóstico de la calidad del aire en granada	Contrato	9/1/15	8/31/16
8	¿to prevent and/or reduce icing of the installations of sierra nevada ski resort¿	Contrato	10/1/14	12/31/15
9	Caracterización multiinstrumental del aerosol atmosférico en el entorno urbano y rural. implicaciones sobre la salud y el clima (tartesos)	Proyecto	1/1/11	12/31/14
10	Perfil vertical de las propiedades microfísicas del aerosol atmosférico. aplicación al estudio de la higroscopicidad.	Proyecto	1/1/11	12/31/13
11	Error estimation in calibrated depolarization lidar measurements (ecad)	Proyecto	9/13/13	10/10/13
12	Equipamiento para la caracterización de la estructura vertical de la atmósfera mediante técnicas láser y microondas	Proyecto	1/1/10	1/1/11
13	Caracterizacion del aerosol atmosferico mediante teledeteccion activa y pasiva integrada con observaciones in situ.	Proyecto	10/1/07	9/30/10
14	Una aproximación multidisciplinar al papel del aerosol atmosférico en el cambio global	Proyecto	4/11/07	3/31/10
15	Determinación y evaluación de parámetros atmosféricos para la corrección atmosférica de las imágenes de satélite de la rediam	Contrato	9/15/08	12/31/08
16	Caracterizacion del aerosol atmosferico mediante metodos opticos en la superficie y en la columna atmosferica	Proyecto	12/13/04	12/13/07
17	Caracterización del aerosol atmosférico mediante métodos ópticos en la superficie y en la columna atmosférica	Proyecto	12/1/04	12/1/07
18	Aerosoles transportables lidar	Proyecto	1/1/04	12/31/05
19	Desarrollo de un marco virtual que complemente la docencia presencial de las asignaturas de contenido físico en ciencias ambientales	Proyecto	12/14/04	12/14/05
20	Efecto de los aerosoles europeos en el clima	Proyecto	1/1/02	12/31/03
21	Estación receptora de imágenes de satélite polares y geostacionarios	Proyecto	1/1/01	12/31/02
22	Espectrorradiómetro de campo en el rango ultravioleta y visible	Proyecto	1/1/01	12/31/02
23	Modelización del balance de energia en áreas especialmente heterogeneas de clima semiarido	Proyecto	1/1/00	12/31/02
24	Estación portátil para la caracterización de los aerosoles atmosféricos	Proyecto	1/1/01	12/31/02
25	Efecto radiativo de los aerosoles. estimacion por metodos opticos.	Proyecto	1/1/98	12/31/99
26	Aplicaciones de la teledeteccion desde satélite al seguimiento medioambiental en zonas de orografía compleja.	Proyecto	1/1/99	12/31/99
27	Modelación del balance de energia y su escalado en áreas espacialmente heterogeneas de clima semiarido	Proyecto	9/1/98	9/1/99
28	Estudio del balance de energia en superficie en zonas áridas y semiaridas	Proyecto	12/15/95	12/15/98
29	Estudio del aerosol atmosférico mediante métodos ópticos	Proyecto	12/30/04	
30	Estudio del aerosol atmosférico en la península ibérica.	Proyecto	12/31/03	



Titulo actividad	Fuente	Tipo	Fecha
Editor asociado de la atmospheric research		Comités científicos de revista	Mar 1, 2010
Miembro del consejo editorial aerosol and air quality research		Comités científicos de revista	Jan 1, 2009
Miembro del board of meeting association for aerosol research	Association for aerosol	Foros y comités internacionales	Jan 1, 1999
Miembro del working group atmospheric aerosol de la european aerosol association (eaa)	European aerosol association	Foros y comités internacionales	Mar 1, 1999
Editor asociado de la atmospheric research	Atmospheric research	Comité científico en sociedad ci	Jan 1, 2010
Evaluador de proyectos agencia nacional de evaluación y prospectiva (anep), programas nacionales de investigación		Foros y comités internacionales	Jan 9, 1995
Research projects manager, area atmosphere and climate at the spanish research agency		Foros y comités internacionales	Jan 2, 2017
Participación en comité de revista: aerosol and air quality research		Comités científicos de revista	Jan 1, 2009
Participación en comité de revista: deep sea research		Comités científicos de revista	Jan 1, 2000
Participación en comité de revista: international journal of remote sensing		Comités científicos de revista	Jan 1, 1998
Participación en comité de revista: energy		Comités científicos de revista	Jan 1, 2000
Participación en comité de revista: journal of applied meteorology		Comités científicos de revista	Jan 1, 2002

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