



Lucas Alados Arboledas

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General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Número de sexenios de Investigación: 6
Fecha del último concedido: 01/01/2020
Número de tesis doctorales dirigidas: 20
Artículos hasta 2023 JRC: 280
Citas hasta 2019: 8500
H-index: 54

**Lucas Alados Arboledas**

Surname(s): Alados Arboledas
Name: Lucas
DNI:
ORCID: 0000-0003-3576-7167
ScopusID: 7004607037
ResearcherID: P-5630-2014
Google scholar: <https://scholar.google.es/citations?user=CMmEjJYAAAAJ&hl=es>
Mendeley: <https://www.mendeley.com/profiles/lucas-alados-arboledas/>
Date of birth: 14/12/1959
Gender: Male
Nationality: Spain
Country of birth: Spain
Aut. region/reg. of birth:
Contact province: Granada
City of birth:
Contact address: Instituto Interuniversitario de Investigación del Sistema Tierra en Andalucía. Universidad de Granada.
Rest of contact address: Avda. del Mediterráneo s/n
Postcode: 18071
Contact country: Spain
Contact aut. region/reg.: Andalusia
Contact city: Granada
Land line phone:
Email: alados@ugr.es
Mobile phone: (
Personal web page: <https://atmosphere.ugr.es/>

Current professional situation

Employing entity: UNIVERSIDAD DE GRANADA **Type of entity:** University
Department: Física Aplicada, Facultad de Ciencias
Professional category: Catedrático de Universidad **Educational Management (Yes/No):** Yes
City employing entity: Granada, Andalusia, Spain
Phone: (34) 958 249749 **Fax:** (34) 958 137246 **Email:** alados@ugr.es
Start date: 23/07/2003
Type of contract: Civil servant **Dedication regime:** Full time
Primary (UNESCO code): 250000 - Earth and space sciences
Secondary (UNESCO code): 250100 - Atmospheric sciences
Tertiary (UNESCO code): 250108 - Atmospheric optics
Performed tasks: Atmospheric Physic, Atmospheric aerosol, Atmospheric radiative transfer, Solar spectral radiaton; UV radiation; Micrometeorology; Earth`s energy budget; Remote Sensing; Lidar; Photometers,
Identify key words: Meteorology

**Previous positions and activities**

	Employing entity	Professional category	Start date
1	Universidad de Granada	Profesor Titular de Universidad	10/01/1991
2	Universidad de Granada	Prof. T. Escuela Universitaria	10/11/1989
3	Universidad de Granada	Prof. T. Escuela Univer. Int	01/10/1987
4	Universidad de Granada	Becario FPU	10/01/1984

- 1** **Employing entity:** Universidad de Granada **Type of entity:** University
Professional category: Profesor Titular de Universidad **Educational Management (Yes/No):** No
Start-End date: 10/01/1991 - 22/07/2003
Type of contract: Civil servant
- 2** **Employing entity:** Universidad de Granada **Type of entity:** University
Professional category: Prof. T. Escuela Universitaria
Start-End date: 10/11/1989 - 09/01/1991
Type of contract: Civil servant
- 3** **Employing entity:** Universidad de Granada **Type of entity:** University
Professional category: Prof. T. Escuela Univer. Int
Start-End date: 01/10/1987 - 09/11/1989
Type of contract: Civil servant
- 4** **Employing entity:** Universidad de Granada **Type of entity:** University
Professional category: Becario FPU
Start-End date: 10/01/1984 - 30/09/1987
Type of contract: Grant-assisted student (pre or post-doctoral, others)



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1** **University degree:** Doctorate
Name of qualification: Doctor en Ciencias Físicas
Degree awarding entity: Universidad de Granada **Type of entity:** University
Date of qualification: 1987
- 2** **University degree:** Middle degree
Name of qualification: Diplomado en Estadística e Investigación Operativa
Degree awarding entity: Universidad de Granada **Type of entity:** University
Date of qualification: 1984
- 3** **University degree:** Higher degree
Name of qualification: Licenciado en Ciencias Físicas
Degree awarding entity: Universidad de Granada **Type of entity:** University
Date of qualification: 1983

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Física
Degree awarding entity: Universidad de Granada **Type of entity:** University
Date of degree: 01/06/1987

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French		B1	B1	B1	C1
English		C1	C1	C1	C1

Teaching experience



General teaching experience

- 1** **Name of the course:** Física de la Atmósfera
University degree: Grado en Física
Start date: 01/02/2012
Entity: Universidad de Granada
Faculty, institute or centre: Facultad de Ciencias

End date: 31/07/2023
Type of entity: University
- 2** **Name of the course:** Meteorología y Climatología
University degree: Ciencias Ambientales
Start date: 01/10/1996
Entity: Universidad de Granada
Faculty, institute or centre: Facultad de Ciencias

End date: 20/02/2012
Type of entity: University
- 3** **Name of the course:** Meteorología Física
University degree: Licenciado en Ciencias Físicas
Start date: 20/02/1999
Entity: Universidad de Granada
Faculty, institute or centre: Facultad de Ciencias

End date: 31/07/2009
Type of entity: University
- 4** **Name of the course:** Fundamentos de Física
University degree: Licenciado en Ciencias Físicas
Start date: 01/10/1997
Entity: Universidad de Granada
Faculty, institute or centre: Facultad de Ciencias

End date: 10/07/1999
Type of entity: University
- 5** **Name of the course:** Física General
University degree: Licenciado en Ciencias Físicas
Start date: 01/10/1991
Entity: Universidad de Granada
Faculty, institute or centre: Facultad de Ciencias

End date: 10/07/1997
Type of entity: University
- 6** **Name of the course:** Bases Físicas del Medio Ambiente
University degree: Ciencias Ambientales
Start date: 01/10/1993
Entity: Universidad de Granada
Faculty, institute or centre: Facultad de Ciencias

End date: 20/02/1996
Type of entity: University
- 7** **Name of the course:** Física de la Atmósfera
University degree: Licenciado en Ciencias Físicas
Start date: 01/10/1993
Entity: Universidad de Granada
Faculty, institute or centre: Facultad de Ciencias

End date: 10/07/1994
Type of entity: University
- 8** **Name of the course:** Termotecnia
University degree: Ingeniero Técnico Agrícola
Start date: 01/10/1988
Entity: Universidad de Granada
Faculty, institute or centre: Escuela de Ingeniería Técnica Agrícola. Almería

End date: 10/07/1991
Type of entity: University



- 9** **Name of the course:** Termotecnia
University degree: Ingeniero Técnico Agrícola
Start date: 01/10/1987 **End date:** 10/07/1991
Entity: Universidad de Granada **Type of entity:** University
Faculty, institute or centre: Escuela de Ingeniería Técnica Agrícola. Almería

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Atmospheric profiling based on aerosol and Doppler lidar
Co-director of thesis: Juan Luís Guerrero Rascado
Entity: Universidad de Granada **Type of entity:** University
Student: Pablo Ortiz Amezcua
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 2019
European doctorate: Yes
Quality recognition: Yes
- 2** **Project title:** SYNERGETIC USE OF ACTIVE AND PASSIVE REMOTE SENSING TECHNIQUES TO RETRIEVE VERTICAL PROFILES OF ATMOSPHERIC AEROSOL PROPERTIES DURING DAY- AND NIGHT-TIME
Co-director of thesis: Roberto Román Díez
Entity: Universidad de Granada **Type of entity:** University
Student: José Antonio Benavent Oltra
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 2019
European doctorate: Yes
Quality recognition: Yes
- 3** **Project title:** Estudio de la capa límite planetaria con sistemas de teledetección
Type of project: Doctoral thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Gregori de Arruda Moreira
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 2018
European doctorate: Yes
Quality recognition: Yes
- 4** **Project title:** CHARACTERIZING THE ATMOSPHERIC AEROSOL BY ACTIVE AND PASSIVE REMOTE SENSING: MICROPHYSICAL PROPERTIES AND HYGROSCOPIC GROWTH EFFECTS
Co-director of thesis: Juan Luis Guerrero Rascado
Entity: Universidad de Granada **Type of entity:** University
Student: M^a José Granados Muñoz
Date of reading: 2014
European doctorate: Yes
- 5** **Project title:** Characterization of atmospheric aerosol particles using in-situ techniques: optical, chemical and hygroscopic properties
Co-director of thesis: Inmaculada Foyo Moreno
Entity: Universidad de Granada **Type of entity:** University
Student: Gloria Titos Vela



Obtained qualification: Sobresaliente cum laude por unanimidad
Date of reading: 2014
European doctorate: Yes

6 Project title: Lidar depolarization technique: assessment of the hardware polarizing sensitivity and applications

Co-director of thesis: Juan Luís Guerrero Rascado

Entity: Universidad de Granada

Type of entity: University

Student: Juan Antonio Bravo Aranda

Obtained qualification: Sobresaliente Cum Laude

Date of reading: 2014

European doctorate: Yes

7 Project title: CARACTERIZACIÓN DE LAS PROPIEDADES FÍSICAS DEL AEROSOL ATMOSFÉRICO EN LA CAMPAÑA VELETA 2002

Type of project: Doctoral thesis

Co-director of thesis: Francisco José Olmo Reyes

Entity: Universidad de Granada

Type of entity: University

Student: ANTONIO ALCÁNTARA RUIZ

Obtained qualification: APTO CUM LAUDE

Date of reading: 2013

European doctorate: No

8 Project title: Atmospheric vertical profiling by Raman lidar

Type of project: Doctoral thesis

Co-director of thesis: Juan Luís Guerrero Rascado

Entity: Universidad de Granada

Type of entity: University

Student: FRANCISCO JESUS NAVAS GUZMAN

Date of reading: 2012

European doctorate: Yes

9 Project title: ESTUDIO Y CARACTERIZACIÓN DEL AEROSOL ATMOSFÉRICO EN UN ENTORNO URBANO MEDIANTE TÉCNICAS IN SITU

Type of project: Minor thesis

Entity: Universidad de Granada

Type of entity: University

Student: GLORIA TITOS VELA

Date of reading: 2010

10 Project title: Estudio de la Capa Límite Planetaria en Granada mediante el método de la transformada de covarianza wavelet.

Type of project: Minor thesis

Entity: Universidad de Granada

Type of entity: University

Student: María José Granados Muñoz

Date of reading: 2010

11 Project title: CARACTERIZACIÓN DEL AEROSOL ATMOSFÉRICO EN LA CIUDAD DE GRANADA MEDIANTE FOTOMETRÍA SOLAR Y ESTELAR

Type of project: Doctoral thesis

Entity: Universidad de Granada

Type of entity: University

Student: DANIEL PÉREZ RAMÍREZ

Obtained qualification: SOBRESALIENTE CUM LAUDE

Date of reading: 2010



- 12** **Project title:** Development of a Sky Imager for Cloud Classification and Aerosol Characterization
Type of project: Doctoral thesis
Co-director of thesis: Francisco José Olmo Reyes
Entity: Universidad de Granada **Type of entity:** University
Student: ALBERTO CAZORLA CABRERA
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 2010
- 13** **Project title:** Caracterización Del Contenido De Agua Precipitable Mediante Fotometría Solar Y Estelar
Type of project: Minor thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Daniel Pérez Ramírez
Date of reading: 2008
- 14** **Project title:** Caracterización del aerosol atmosférico mediante despolarización lidar
Type of project: Minor thesis
Entity: Universidad de Granada **Type of entity:** University
Student: JUAN ANTONIO BRAVO ARANDA
Obtained qualification: Sobresaliente
Date of reading: 2008
- 15** **Project title:** Empleo De La Despolarización Lidar Para La Caracterización De Partículas Atmosféricas
Type of project: Minor thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Juan Antonio Bravo Aranda
Date of reading: 2008
- 16** **Project title:** Técnicas de Teledetección activa y pasiva: Análisis de un evento extremo de polvo sahariano sobre el sur de la Península Ibérica
Type of project: Minor thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Juan Luís Guerrero Rascado
Date of reading: 2008
- 17** **Project title:** INTERCAMBIOS DE CO2 ENTRE ATMOSFERA Y ECOSISTEMAS KARSTICOS: APLICABILIDAD DE LAS TÉCNICAS COMUNMENTE EMPLEADAS
Type of project: Doctoral thesis
Co-director of thesis: Andrew Stephen Kowalski
Entity: Universidad de Granada **Type of entity:** University
Student: PENELOPE SERRANO ORTIZ
Obtained qualification: SOBRESALIENTE CUM LAUDE
Date of reading: 2008
- 18** **Project title:** TÉCNICA LIDAR PARA LA CARACTERIZACIÓN ATMOSFÉRICA MEDIANTE DISPERSIÓN ELÁSTICA Y RAMAN
Type of project: Doctoral thesis
Entity: Universidad de Granada **Type of entity:** University
Student: JUAN LUIS GUERRERO RASCADO
Obtained qualification: SOBRESALIENTE CUM LAUDE
Date of reading: 2008



- 19** **Project title:** Caracterización de la estructura vertical del aerosol atmosférico mediante Lidar durante la campaña CAPEX (Évora, Portugal)
Type of project: Minor thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Juan Luís Guerrero Rascado
Date of reading: 2007
- 20** **Project title:** Determinación de la Capa Límite Planetaria mediante el empleo de la técnica Lidar.
Type of project: Minor thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Francisco Navas Guzman
Date of reading: 2007
- 21** **Project title:** Starphotometry for the retrieval of aerosol optical depth: Instrument design and calibration
Type of project: Minor thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Daniel Pérez Ramirez
Date of reading: 2007
- 22** **Project title:** COMPARACIÓN DE LAS MEDIDAS DE DENSIDAD Y FLUJOS DE VAPOR DE AGUA OBTENIDOS CON EL KRYPTON KH20 Y EL LICOR-7500 MEDIANTE LA TÉCNICA EDDY COVARIANCE.
Type of project: Work leading to an ASD
Entity: Universidad de Granada **Type of entity:** University
Student: Penélope Serrano Ortiz
Date of reading: 2004
- 23** **Project title:** Estudio del cierre en la técnica de eddy correlation en zonas áridas
Type of project: End of course project
Entity: Universidad de Granada **Type of entity:** University
Student: Francisco Aguilera Benavente
Date of reading: 2003
- 24** **Project title:** Estudio de las propiedades de los aerosoles atmosféricos en Armilla (Granada).
Type of project: Doctoral thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Hassan Lyamani
Date of reading: 2002
- 25** **Project title:** El Cambio climático en el Marco del Continente Europeo
Type of project: End of course project
Entity: Universidad de Granada **Type of entity:** University
Student: Francisco José Padilla Ariza
Date of reading: 2001
- 26** **Project title:** Estudio comparativo de métodos de medida del flujo sensible en zonas áridas.
Type of project: Work leading to an ASD
Entity: Universidad de Granada **Type of entity:** University
Student: Antonio Alcántara Ruíz
Date of reading: 2001



- 27** **Project title:** Caracterización de las propiedades ópticas de los aerosoles atmosféricos mediante medidas de radiancia atmosférica.
Type of project: Doctoral thesis
Entity: Universidad de Granada **Type of entity:** University
Student: María del Carmen Sánchez Oliveros
Date of reading: 2000
- 28** **Project title:** Contribución al estudio de los efectos radiativos de los aerosoles volcánicos
Type of project: Work leading to an ASD
Entity: Universidad de Granada **Type of entity:** University
Student: Hassan Lyamani
Date of reading: 1999
- 29** **Project title:** Aplicación de la teledetección desde satélite a la estimación de la irradiancia solar y el flujo fotosintético recibido en superficie.
Type of project: Work leading to an ASD
Entity: Universidad de Granada **Type of entity:** University
Student: Rosario Pareja Illeras
Date of reading: 1998
- 30** **Project title:** Estudio de la modelización de la radiación fotosintéticamente activa.
Type of project: Doctoral thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Inmaculada Alados Arboledas
Date of reading: 1997
- 31** **Project title:** Medida, caracterización y modelización de la irradiancia térmica atmosférica.
Type of project: Doctoral thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Manuel Pérez García
Date of reading: 1997
- 32** **Project title:** Estudio y caracterización de aerosoles atmosféricos mediante espectrorradiometría de superficie. Aplicación a la corrección atmosférica de las imágenes de satélite.
Type of project: Work leading to an ASD
Entity: Universidad de Granada **Type of entity:** University
Student: María del Carmen Sánchez Oliveros
Date of reading: 1997
- 33** **Project title:** Caracterización y modelización de la distribución angular de la radiancia del cielo en presencia de nubes.
Type of project: Doctoral thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Inmaculada Foyo Moreno
Date of reading: 1996
- 34** **Project title:** Contribución al estudio de la radiación difusa del cielo con cualquier orientación e inclinación.
Type of project: Doctoral thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Jeronino Vida Manzano
Date of reading: 1996



- 35** **Project title:** Variabilidad espacio-temporal de la radiación solar.
Type of project: Doctoral thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Joaquín Tovar Pescador
Date of reading: 1996
- 36** **Project title:** Caracterización y modelización de la irradiancia solar difusa.
Type of project: Doctoral thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Francisco Javier Batlles Garrido
Date of reading: 1995
- 37** **Project title:** Proyecto ambiental. Arquitectura Bioclimática.
Type of project: End of course project
Entity: Universidad de Granada **Type of entity:** University
Student: David Román Faura

Participation in innovative teaching projects

- 1** **Project title:** E-learning en el proceso de enseñanza-aprendizaje a nivel de posgrado: aplicación a asignaturas de GEOMET (Ref.: PID 15-23)
Type of participation: Team member
Contribution to the project: PALABRAS CLAVE: Bilingüismo, Plataforma virtual (Moodle), Física de la Atmósfera
Name of the main researcher: JUAN LUIS GUERRERO RASCADO
Number of participants: 20
Amount awarded: 1.600 €
Funding entity: Universidad de Granada, Vicerrectorado de Planificación, Calidad y Evaluación Docente **Type of entity:** Public Research Body
Start-End date: 01/10/2015 - 30/03/2017
- 2** **Project title:** Hacia un marco virtual para el aprendizaje autónomo bilingüe de las asignaturas relacionadas con la física de la atmósfera en las titulaciones de Física y Ciencias Ambientales
Contribution to the project: PALABRAS CLAVE: Bilingüismo, Plataforma virtual (Moodle), Física de la Atmósfera
Name of the main researcher: JUAN LUIS GUERRERO RASCADO
Number of participants: 8
Funding entity: Universidad de Granada, Vicerrectorado de Planificación, Calidad y Evaluación Docente
End date: 30/09/2013 **Duration:** 364 days
- 3** **Project title:** Desarrollo de un marco virtual que complemente la docencia presencial de las asignaturas de contenido físico en Ciencias Ambientales II
Type of participation: Co-ordinator
Name of the main researcher: Lucas Alados Arboledas
Number of participants: 5
Funding entity: Universidad de Granada, Vicerrectorado de Planificación, Calidad y Evaluación Docente
Start-End date: 01/01/2008 - 31/12/2008



- 4** **Project title:** Tiempo, clima y energía en un marco de aprendizaje práctico
Type of participation: Co-ordinator
Name of the main researcher: Lucas Alados Arboledas
Number of participants: 4
Funding entity: Universidad de Granada, Vicerrectorado de Planificación, Calidad y Evaluación Docente
Start-End date: 01/10/2004 - 18/11/2005
- 5** **Project title:** Aprendizaje autónomo de las disciplinas relacionadas con la Física en Ciencias Ambientales
Type of participation: Co-ordinator
Name of the main researcher: Lucas Alados Arboledas
Number of participants: 4
Funding entity: Universidad de Granada, Vicerrectorado de Planificación, Calidad y Evaluación Docente
Start-End date: 01/10/2003 - 03/06/2004
- 6** **Project title:** Tutoría y orientación académica y profesional para los estudiantes del Grado en Física (TUYO-FÍSICA)
Type of participation: Team member
Name of the main researcher: ESTRELLA FLORIDO NAVÍO
Number of participants: 20
Amount awarded: 3.000 €
Funding entity: Universidad de Granada, Vicerrectorado de Planificación, Calidad y Evaluación Docente
Type of entity: Public Research Body
Start date: 01/11/2016

Most relevant contributions of your teaching CV

- 1** **Description:** Summer School: "Basic Aerosol Science Applied to Atmospheric Aerosols"
City of activity: Viena, Austria
Organising entity: University of Vienna
Type of entity: University
End date: 2017
- 2** **Description:** Summer School: "Basic Aerosol Science Applied to Atmospheric Aerosols"
City of activity: Viena, Austria
Organising entity: University of Vienna
Type of entity: University
End date: 2013
- 3** **Description:** Summer School: "Basic Aerosol Science Applied to Atmospheric Aerosols"
City of activity: Viena, Austria
Organising entity: University of Vienna
Type of entity: University
End date: 2011
- 4** **Description:** Summer School: "Basic Aerosol Science Applied to Atmospheric Aerosols"
City of activity: Viena, Austria
Organising entity: University of Vienna
Type of entity: University
End date: 2009
- 5** **Description:** Summer School: "Basic Aerosol Science Applied to Atmospheric Aerosols"
City of activity: Viena, Austria
Organising entity: University of Vienna
Type of entity: University



End date: 2007

Scientific and technological experience

Research and development groups/teams

Name of the group: Grupo de Física de la Atmósfera (RNM119)
Name of principal investigator: Lucas Alados Arboledas
Number of members in the group: 18
Standardised code: RNM119
Affiliation entity: Universidad de Granada
Type of entity: University
Number of directed thesis: 20
Number of directed postdoc: 10
Start date: 1983

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1 Name of the project:** CLOUD AEROSOL RADIATION INTERACTION. CLARIN.
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Granada
Type of entity: University
Name principal investigator (PI, Co-PI....): Lucas Alados Arboledas; Francisco José Olmo Reyes
Nº of researchers: 8
Funding entity or bodies: Ministerio de Economía y Competitividad
Code according to the funding entity: CGL2016-81092-R
Start-End date: 01/01/2017 - 31/12/2020
Duration: 4 years
Total amount: 349.000 €
- 2 Name of the project:** AEROSOLS, CLOUDS, AND TRACE GASES RESEARCH INFRASTRUCTURE NETWORK 2. (ACTRIS2)
Geographical area: European Union
Degree of contribution: Scientific coordinator
Entity where project took place: Universidad de Granada
Type of entity: University
Name principal investigator (PI, Co-PI....): Gelsomina Pappalardo; Lucas Alados Arboledas
Funding entity or bodies: Union Europea
Type of entity: Europea
Type of participation: Co-ordinator
Start-End date: 01/05/2015 - 30/04/2018
Total amount: 10.000.000 €
Sub-project amount: 500.000 €
Percentage as grant: 5



3 Name of the project: Equipamiento del IISTA para la Monitorización e Investigación del Cambio Global en el marco de los ERICs (EuropeanResearchInfrastructureConsortia):ICOS, LifeWatch y ACTRIS.

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): Lucas Alados Arboledas

Funding entity or bodies:

Ministerio de Ciencia e Innovación. Investigación **Type of entity:** Ministerial

City funding entity: Madrid, Community of Madrid, Spain

Code according to the funding entity: UNGR15-CE- 3389

Start-End date: 2017 - 2018

Total amount: 607.665 €

4 Name of the project: SEGUIMIENTO REGIONAL DEL AEROSOL ATMOSFERICO EN TRES DIMENSIONES COMBINANDO LIDAR MULTIESPECTRAL Y RED DE CEILOMETROS-RADIOMETROS.(TRIAEROMONITOR)

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): Lucas Alados Arboledas; Lucas Alados Arboledas

Nº of researchers: 8

Funding entity or bodies:

Ministerio de Economía y Competitividad

Code according to the funding entity: CGL2013_45410-R

Start-End date: 01/01/2014 - 31/12/2016

Total amount: 239.580 €

5 Name of the project: Caracterización multiinstrumental del aerosol atmosférico en el entorno urbano y rural. Implicaciones sobre la salud y el clima (TARTESOS)

Degree of contribution: Scientific coordinator

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): L. Alados Arboledas

Nº of researchers: 10

Funding entity or bodies:

Junta de Andalucía

Type of entity: Autonómico

City funding entity: Sevilla, Andalusia, Spain

Type of participation: Co-ordinator

Code according to the funding entity: P10-RNM-6299

Start-End date: 01/01/2011 - 31/12/2014

Duration: 1460 days

Total amount: 186.240 €

6 Name of the project: AEROSOLS, CLOUDS, AND TRACE GASES RESEARCH INFRASTRUCTURE NETWORK. (ACTRIS)

Geographical area: European Union

Degree of contribution: Scientific coordinator

Entity where project took place: Universidad de Granada **Type of entity:** University



Name principal investigator (PI, Co-PI....): L. Alados Arboledas

Funding entity or bodies:

Union Europea

Type of entity: Europea

Type of participation: Co-ordinator

Start-End date: 2011 - 2014

Total amount: 47.679 €

7 Name of the project: PERFIL VERTICAL DE LAS PROPIEDADES MICROFISICAS DEL AEROSOL ATMOSFERICO. APLICACION AL ESTUDIO DE LA HIGROSCOPICIDAD.(AEROMICROPRO)

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): L. Alados Arboledas

Funding entity or bodies:

Comisión Interministerial de Ciencia y Tecnología **Type of entity:** Ministerial

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Co-ordinator

Code according to the funding entity: CGL2010-18782

Start-End date: 01/01/2011 - 31/12/2013

Total amount: 229.900 €

8 Name of the project: INFLUENCIA DE LA NO ESFERICIDAD EN LAS PROPIEDADES RADIATIVAS DEL AEROSOL ATMOSFÉRICO. APLICACIÓN AL EFECTO GLOBAL DEL POLVO SAHARIANO (NOESAER).

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): FRANCISCO JOSE OLMO REYES

Nº of researchers: 8

Funding entity or bodies:

Junta de Andalucía

Type of entity: Autonómico

City funding entity: Sevilla, Andalusia, Spain

Code according to the funding entity: P08-RNM-03568

Start-End date: 13/01/2009 - 31/01/2013

Duration: 1461 days

Total amount: 279.539,88 €

9 Name of the project: MULTIDISCIPLINARY RESEARCH CONSORTIUM ON GRADUAL AND ABRUPT CLIMATE CHANGES, AND THEIR IMPACTS ON THE ENVIRONMENT (GRACCIE)

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): J. Grimalt

Funding entity or bodies:

Ministerio de Ciencia e Innovación. Investigación **Type of entity:** Ministerio

City funding entity: Madrid, Community of Madrid, Spain

Name of the programme: . Programa Consolider Ingenio 2010

Code according to the funding entity: CSD2007-00067

Start-End date: 2007 - 2012



Total amount: 5.413.000 €

10 Name of the project: EQUIPAMIENTO PARA LA CARACTERIZACIÓN DE LA ESTRUCTURA VERTICAL DE LA ATMÓSFERA MEDIANTE TÉCNICAS LÁSER Y MICROONDAS

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): L. Alados Arboledas

Funding entity or bodies:

Ministerio de Ciencia e Innovación. Investigación **Type of entity:** Ministerial

City funding entity: Madrid, Community of Madrid, Spain

Code according to the funding entity: UNGR08-1E-023

Start-End date: 2010 - 2011

Total amount: 349.376,49 €

11 Name of the project: Intercomparación de lidares (radar laser) españoles avanzados - 3A

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): F. Molero Menéndez

Nº of researchers: 8

Funding entity or bodies:

Ministerio de Ciencia e Innovación. Investigación **Type of entity:** Ministerio

City funding entity: Madrid, Community of Madrid, Spain

Name of the programme: Acciones Complementarias a Proyectos de Investigación Fundamental no orientada

Code according to the funding entity: CGL2008-01330-E/CLI

Start-End date: 01/07/2009 - 31/12/2010

Duration: 548 days

Total amount: 26.000 €

12 Name of the project: Aerosols and Clouds: Long Term Database from Spaceborne Lidar Measurements. ESA-CALIPSO EARLINET's Spaceborne-lidar-related Activity During the CALIPSO Misión

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): G. Papalardo

Funding entity or bodies:

Agencia Espacial Europea

Type of entity: State agency

Code according to the funding entity: 21487/08/NL/HE

Start-End date: 2008 - 2010

Total amount: 500.000 €

13 Name of the project: Caracterización del aerosol atmosférico mediante teledetección activa y pasiva integrada con observaciones in situ. (CATARSIS)

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Type of entity: University



Entity where project took place: Universidad de Granada

Name principal investigator (PI, Co-PI....): L. Alados Arboledas

Nº of researchers: 8

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Type of entity: Ministerio

Code according to the funding entity: CGL2007-66477-C02-01

Start-End date: 2007 - 2010

Total amount: 140.000 €

- 14 Name of the project:** Efecto de los tratamientos selvícolas post-incendio sobre el flujo de CO₂ y el balance de carbono: análisis de pautas que optimicen la captura de C en ecosistemas mediterráneos

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): A. Kowalski

Funding entity or bodies:

INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)

City funding entity: Spain

Code according to the funding entity: SUM2006-00010-00-00

Start-End date: 2007 - 2010

Total amount: 78.534 €

- 15 Name of the project:** Una aproximación multidisciplinar al papel del aerosol atmosférico en el Cambio Global (AEROGLOBAL)

Geographical area: Regional

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): L. Alados Arboledas

Funding entity or bodies:

Junta de Andalucía

Type of entity: Autonómico

City funding entity: Sevilla, Andalusia, Spain

Code according to the funding entity: P06-RNM-01503

Start-End date: 2007 - 2010

Total amount: 177.999 €

- 16 Name of the project:** Balance de carbono y de agua en cosistemas de matorral mediterráneo en Andalucía: efecto del cambio climático (BACAEMA)

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): A. Kowalski

Funding entity or bodies:

Junta de Andalucía

Type of entity: Autonómico

City funding entity: Sevilla, Andalusia, Spain

Code according to the funding entity: RNM332

Start-End date: 2006 - 2009



Total amount: 217.000 €

17 Name of the project: Caracterización del aerosol atmosférico mediante métodos ópticos en la superficie y en la columna atmosférica (CALIPSO)

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): Lucas Alados Arboledas

Nº of researchers: 8

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Type of entity: Ministerio

Code according to the funding entity: CGL2004-05984-C07-03

Start-End date: 2004 - 2007

Total amount: 115.000 €

18 Name of the project: Caracterización del aerosol atmosférico in situ e integrado en la columna atmosférica

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): L. Alados Arboledas

Funding entity or bodies:

Ministerio de Ciencia e Innovación. Investigación

Type of entity: Ministerio

City funding entity: Madrid, Community of Madrid, Spain

Name of the programme: Infraestructura Fondos FEDER

Code according to the funding entity: UNGR05-23-009

Start-End date: 2005 - 2006

Total amount: 237.434,6 €

19 Name of the project: Estudio del aerosol atmosférico mediante métodos ópticos

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): L. Alados Arboledas

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Type of entity: Ministerio

Name of the programme: Convocatoria de Acciones Integradas 2004

Code according to the funding entity: Ref. HI-2004-0219

Start-End date: 2005 - 2006

Total amount: 10.820 €

20 Name of the project: Caracterización del efecto radiativo de las nubes sobre la radiación ultravioleta Espectral mediante el empleo de una cámara de cielo CIRRUS.

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): F. Olmo Reyes

**Funding entity or bodies:**

Ministerio de Ciencia y Tecnología

Type of entity: Ministerio**Name of the programme:** P.N.I.D. SOBRE EL CLIMA**Code according to the funding entity:** REN2003-03175**Start-End date:** 2003 - 2006**Total amount:** 100.000 €

- 21** **Name of the project:** Estudio del aerosol atmosférico en la Península Ibérica
Geographical area: European Union
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): L. Alados Arboledas
Funding entity or bodies:
Minsiterio de Ciencia y Tecnología **Type of entity:** Minsiterio
Name of the programme: Convocatoria de Acciones Integradas 2003
Code according to the funding entity: Ref. HP-2003-0013
Start-End date: 2004 - 2005
Total amount: 7.750 €
- 22** **Name of the project:** Aerosoles transportables LIDAR
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): L. Alados Arboledas
Funding entity or bodies:
Ministerio de Ciencia e Innovación. Investigación **Type of entity:** Minsiterio
City funding entity: Madrid, Community of Madrid, Spain
Name of the programme: Infraestructura Fondos FEDER
Code according to the funding entity: REF. UNGR03-23-032
Start-End date: 2003 - 2004
Total amount: 360.000 €
- 23** **Name of the project:** Efecto de los aerosoles europeos en el clima.
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): L. Alados Arboledas
Funding entity or bodies:
Ministerio de Ciencia y Tecnología **Type of entity:** Ministerio
Name of the programme: Convocatoria de Acciones Integradas 2001
Code according to the funding entity: Ref. HU-2001-0022
Start-End date: 2002 - 2003
Total amount: 13.823,28 €



- 24** **Name of the project:** Espectrorradiómetro de campo en el rango ultravioleta y visible.
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): L. Alados Arboledas
Funding entity or bodies: Ministerio de Ciencia e Innovación. Investigación **Type of entity:** Ministerio
City funding entity: Madrid, Community of Madrid, Spain
Name of the programme: Infraestructura Fondos FEDER
Code according to the funding entity: UGR0023-016
Start-End date: 2001 - 2002
Total amount: 108.182,18 €
- 25** **Name of the project:** Estación portátil para la caracterización de los aerosoles atmosféricos.
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): L. Alads Arboledas
Funding entity or bodies: Ministerio de Ciencia e Innovación. Investigación **Type of entity:** Ministerio
City funding entity: Madrid, Community of Madrid, Spain
Name of the programme: Infraestructura Fondos FEDER
Code according to the funding entity: UGR 0023-018
Start-End date: 2001 - 2002
Total amount: 63.106,27 €
- 26** **Name of the project:** Estación receptora de Imágenes de Satélite Polares y geostacionarios
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): L. Alados Arboledas
Funding entity or bodies: Ministerio de Ciencia e Innovación. Investigación **Type of entity:** Ministerio
City funding entity: Madrid, Community of Madrid, Spain
Name of the programme: Infraestructura Fondos FEDER
Code according to the funding entity: UGR 0023-023
Start-End date: 2001 - 2002
Total amount: 72.121,45 €
- 27** **Name of the project:** Determinación y predicción de la radiación ultravioleta solar en España. Influencia de la columna de ozono, partículas aerosoles y nubosidad.
Geographical area: National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Granada **Type of entity:** University
Name principal investigator (PI, Co-PI....): L. Alados Arboledas
Funding entity or bodies:



Ministerio de Ciencia y Tecnología. Dirección General **Type of entity:** Ministerio de Investigación.

Code according to the funding entity: REN2000-0903-CO8-05 CLI

Start-End date: 2000 - 2002

Total amount: 48.402,18 €

28 Name of the project: Modelación del balance de energía y su escalado en áreas espacialmente heterogéneas de clima semiárido

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Universidad de Granada **Type of entity:** University

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Type of entity: Ministerio

Name of the programme: CICYT - P.N.I.D. SOBRE EL CLIMA.

Code according to the funding entity: CLI99-0835-CO2-01

Start-End date: 1999 - 2002

Total amount: 46.999,15 €

29 Name of the project: Red Piloto de medida de radiación ultravioleta-fotosintética y fotoprotección.

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI...): F. López Figueroa

Funding entity or bodies:

Fondos FEDER

Type of entity: Ministerio

Code according to the funding entity: FEDER- 197-0824

Start-End date: 1999 - 2002

Total amount: 282.475,69 €

30 Name of the project: Estudio de las propiedades ópticas de los aerosoles mediante medidas de radiancia del cielo y extinción de haz solar.

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI...): F. Olmo Reyes

Nº of researchers: 4

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Type of entity: Ministerio

Name of the programme: CICYT - P.N.I.D. SOBRE EL CLIMA

Code according to the funding entity: CLI98-0957

Start-End date: 1998 - 2001

Total amount: 39.065,79 €

31 Name of the project: Aplicaciones de la teledetección desde satélite al seguimiento medioambiental en zonas de orografía compleja.

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium



Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): L. Alados Arboledas

Nº of researchers: 6

Funding entity or bodies:

Ministerio de Educación y Cultura. Subdirección General de Cooperación Internacional. **Type of entity:** Ministerio

Start-End date: 1998 - 1999

Total amount: 6.000 €

32 Name of the project: Efecto radiativo de los aerosoles. Estimación por métodos ópticos.

Geographical area: European Union

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): L. Alados Arboledas

Nº of researchers: 8

Funding entity or bodies:

Ministerio de Ciencia y Tecnología **Type of entity:** Ministerio

Name of the programme: Convocatoria de Acciones Integradas 1997.

Code according to the funding entity: HU-1997-0019

Start-End date: 1998 - 1999

Total amount: 7.212,14 €

33 Name of the project: Modelación del balance de energía y su escalado en áreas espacialmente heterogéneas de clima semiárido. MEHCLIMA.

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): L. Alados Arboledas

Nº of researchers: 11

Funding entity or bodies:

Ministerio de Ciencia y Tecnología **Type of entity:** Ministerio

Name of the programme: CICYT - P.N.I.D. SOBRE EL CLIMA

Code according to the funding entity: CLI98-0912-CO2-01

Start-End date: 1998 - 1999

Total amount: 3.000 €

34 Name of the project: Espectrorradiómetro de campo.

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): F. Romero Mora

Nº of researchers: 6

Funding entity or bodies:

Ministerio de Ciencia y Tecnología **Type of entity:** Ministerio

Name of the programme: Convocatoria de Infraestructura 1995.

Code according to the funding entity: IN94-0563



Start-End date: 1996 - 1999

Total amount: 54.091 €

35 Name of the project: Estudio del balance de energía en superficie en zonas áridas y semiáridas.

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI...): L. Alados Arboledas

Nº of researchers: 16

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Type of entity: Ministerio

Name of the programme: CICYT - P.N.I.D. SOBRE EL CLIMA.

Code according to the funding entity: CLI95-1840

Start-End date: 1995 - 1998

Total amount: 74.574 €

36 Name of the project: Variabilidad climática natural a escala regional. Clima y clima histórico de Andalucía.

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI...): Y. Castro Díaz

Nº of researchers: 4

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Type of entity: Ministerio

Code according to the funding entity: AMB95-0450

Start-End date: 1995 - 1998

Total amount: 36.625,68 €

37 Name of the project: Variabilidad natural anual y por décadas en el Clima de la Península Ibérica.

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI...): Y. Castro Díaz

Nº of researchers: 6

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Type of entity: Ministerio

Name of the programme: CICYT - P.N.I.D. SOBRE EL CLIMA.

Code according to the funding entity: CLI95-1928-C02-01

Start-End date: 1995 - 1998

Total amount: 34.942,89 €

38 Name of the project: Reconstrucción del clima del pasado de Andalucía.

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI...): Y. Castro Díaz



Nº of researchers: 5

Funding entity or bodies:

INSTITUTO NACIONAL DE METEOROLOGÍA

City funding entity: Spain

Code according to the funding entity: INM94.428/1

Start-End date: 1995 - 1997

Total amount: 36.060,72 €

39 Name of the project: Modificaciones producidas por la nubosidad en los flujos radiativos en superficie. Caracterización para localidades en montaña y en la interfase tierra-mar.

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Granada **Type of entity:** University

Name principal investigator (PI, Co-PI....): J. Jiménez Jiménez

Nº of researchers: 7

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Type of entity: Ministerio

Code according to the funding entity: PB91-0711

Start-End date: 1992 - 1995

Total amount: 33.115,76 €

R&D non-competitive contracts, agreements or projects with public or private entities

1 Name of the project: Estudio de distribuciones de tamaño de gotas de niebla en la autovía A-8

Degree of contribution: Coordinator of total project, network or consortium

Nº of researchers: 4

Start date: 26/09/2018

Duration: 1 month - 4 days

Total amount: 12.245,2 €

2 Name of the project: APEL Assessment of atmospheric optical properties during biomass burning events and long-range transport of desert dust (ESA);

Degree of contribution: Researcher

Nº of researchers: 8

Participating entity/entities: European Space Astronomy Centre; INOE RUMANIA; LMU Munich; USP SAO PAULO BRASIL; Universidad de Granada

Start date: 01/12/2016

Duration: 14 months

Total amount: 100.000 €

3 Name of the project: ICING II

Degree of contribution: Scientific coordinator

Name principal investigator (PI, Co-PI....): Luís Fermín Capitán Valvey; Lucas Alados Arboledas

Nº of researchers: 6

Participating entity/entities: CETURSA SIERRA NEVADA, S.A.; DOPPLER MAYER; Universidad de Granada

Start date: 02/11/2016

Duration: 1 year

Total amount: 30.000 €



- 4** **Name of the project:** ICING
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI....): Luís Fermín Capitán Valvey; Lucas Alados Arboledas
Nº of researchers: 6
Participating entity/entities: CETURSA SIERRA NEVADA, S.A.; DOPPLER MAYER; Universidad de Granada
Start date: 02/11/2015 **Duration:** 1 year
Total amount: 30.000 €
- 5** **Name of the project:** CALIBRACIÓN, APLICACIÓN Y VALIDACIÓN DEL MODELO "VPRM" EN ANDALUCÍA
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): PENELOPE SERRANO ORTIZ
Nº of researchers: 5
Start date: 01/03/2009 **Duration:** 364 days
Total amount: 20.876 €
- 6** **Name of the project:** FOTOMETRIA SOLAR CON EL CIMEL CE318
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): FRANCISCO JOSE OLMO REYES
Nº of researchers: 3
Start date: 22/09/2008 **Duration:** 100 days - 1 hour
Total amount: 9.500 €
- 7** **Name of the project:** DETERMINACIÓN Y EVALUACIÓN DE PARÁMETROS ATMOSFÉRICOS PARA LA CORRECCIÓN ATMOSFÉRICA DE LAS IMÁGENES DE SATELITE DE LA REDIAM
Name principal investigator (PI, Co-PI....): LUCAS ALADOS ARBOLEDAS
Nº of researchers: 1
Start date: 15/09/2008 **Duration:** 107 days - 1 hour
Total amount: 12.000 €
- 8** **Name of the project:** AEROSOL AND CLOUDS: LONG TERM DATABASE FROM SPACEBORNE LIDAR MEASUREMENTSWW
Name principal investigator (PI, Co-PI....): LUCAS ALADOS ARBOLEDAS
Nº of researchers: 2
Start date: 05/09/2008 **Duration:** 1094 days
Total amount: 500.000 €

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1 S. Kotthaus; J.A. Bravo-Aranda; M. Collaud Coen; J.L. Guerrero-Rascado; M.J. Costa; D. Cimini; E.J. O'Connor; M. Hervo; L. Alados-Arboledas; M. Jiménez-Portaz; L. Mona; D. Ruffieux; A. Illingworth; M. Haeffelin. Atmospheric boundary layer height from ground-based remote sensing: a review of capabilities and limitations. *Atmospheric Measurement Techniques*. 16 - 2, pp. 433 - 479. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147296424&doi=10.5194%2famf-16-433-2023&partnerID=40&md5=e8535724de6b6ad8b03047669b27e877>>.

Type of production: Scientific paper **Format:** Journal
- 2 V. Salgueiro; J.L. Guerrero-Rascado; M.J. Costa; R. Román; A. Cazorla; A. Serrano; F. Molero; M. Sicard; C. Córdoba-Jabonero; D. Bortoli; A. Comerón; F.T. Couto; M.Á. López-Cayuela; D. Pérez-Ramírez; M. Potes; J.A. Muñiz-Rosado; M.A. Obregón; R. Barragán; D.C.F.S. Oliveira; J. Abril-Gago; R. González; C. Gil-Díaz; I. Foyo-Moreno; C. Muñoz-Porcar; M.J. Granados-Muñoz; A. Rodríguez-Gómez; M. Herreras-Giralda; J.A. Bravo-Aranda; C.V. Carvajal-Pérez; A. Barreto; L. Alados-Arboledas. Characterization of Tajogaite volcanic plumes detected over the Iberian Peninsula from a set of satellite and ground-based remote sensing instrumentation. *Remote Sensing of Environment*. 295, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85161661765&doi=10.1016%2fj.rse.2023.113684&partnerID=40&md5=0a0c9e4ace95b1c4e25a99cf6b51633c>>.

Type of production: Scientific paper **Format:** Journal
- 3 A. Casans; F. Rejano; J. Maldonado-Valderrama; J.A. Casquero-Vera; S. Ruiz-Peñuela; B.L. van Drooge; H. Lyamani; A. Cazorla; E. Andrews; J.J. Lin; F. Mirza-Montoro; D. Pérez-Ramírez; F.J. Olmo; L. Alados-Arboledas; P. Cariñanos; G. Titos. Cloud condensation nuclei activation properties of Mediterranean pollen types considering organic chemical composition and surface tension effects. *Atmospheric Environment*. 310, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85165583751&doi=10.1016%2fj.atmosenv.2023.119961&partnerID=40&md5=4681c7173aa3d805f5d855764ca68>>.

Type of production: Scientific paper **Format:** Journal
- 4 C. Jaén; G. Titos; S. Castillo; A. Casans; F. Rejano; A. Cazorla; J. Herrero; L. Alados-Arboledas; J.O. Grimalt; B.L. van Drooge. Diurnal source apportionment of organic and inorganic atmospheric particulate matter at a high-altitude mountain site under summer conditions (Sierra Nevada; Spain). *Science of the Total Environment*. 905, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85172459965&doi=10.1016%2fj.scitotenv.2023.167178&partnerID=40&md5=a3c9d1648de0565f15d0a2c5c338f9>>.

Type of production: Scientific paper **Format:** Journal
- 5 E. Bazo; M.J. Granados-Muñoz; R. Román; J.A. Bravo-Aranda; A. Cazorla; A. Valenzuela; R. González; F.J. Olmo; L. Alados-Arboledas. Evaluation of the vertically-resolved aerosol radiative effect on shortwave and longwave ranges using sun-sky photometer and ceilometer measurements. *Atmospheric Research*. 282, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85142321259&doi=10.1016%2fj.atmosres.2022.106517&partnerID=40&md5=43e1de353cc36b2a49657d6bd62d>>.

Type of production: Scientific paper **Format:** Journal



- 6** F. Rejano; J.A. Casquero-Vera; H. Lyamani; E. Andrews; A. Casans; D. Pérez-Ramírez; L. Alados-Arboledas; G. Titos; F.J. Olmo. Impact of urban aerosols on the cloud condensation activity using a clustering model. *Science of the Total Environment*. 858, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85141241990&doi=10.1016%2fj.scitotenv.2022.159657&partnerID=40&md5=f526e0ef70915e249ea362c31ea3d5>>
Type of production: Scientific paper **Format:** Journal
- 7** J. Vaquero-Martínez; M. Antón; M.J. Costa; D. Bortoli; F. Navas-Guzmán; L. Alados-Arboledas. Microwave radiometer, sun-photometer and GNSS multi-comparison of integrated water vapor in Southwestern Europe. *Atmospheric Research*. 287, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85150164046&doi=10.1016%2fj.atmosres.2023.106698&partnerID=40&md5=936c4857bf9d509fe37c9b1749d85f>>
Type of production: Scientific paper **Format:** Journal
- 8** M. Savadkoobi; M. Pandolfi; C. Reche; J.V. Niemi; D. Mooibroek; G. Titos; D.C. Green; A.H. Tremper; C. Hueglin; E. Liakakou; N. Mihalopoulos; I. Stavroulas; B. Artiñano; E. Coz; L. Alados-Arboledas; D. Beddows; V. Riffault; J.F. De Brito; S. Bastian; A. Baudic; C. Colombi; F. Costabile; B. Chazeau; N. Marchand; J.L. Gómez-Amo; V. Estellés; V. Matos; E. van der Gaag; G. Gille; K. Luoma; H.E. Manninen; M. Norman; S. Silvergren; J.-E. Petit; J.-P. Putaud; O.V. Rattigan; H. Timonen; T. Tuch; M. Merkel; K. Weinhold; S. Vratolis; J. Vasilescu; O. Favez; R.M. Harrison; P. Laj; A. Wiedensohler; P.K. Hopke; T. Petäjä; A. Alastuey; X. Querol. The variability of mass concentrations and source apportionment analysis of equivalent black carbon across urban Europe. *Environment International*. 178, 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85168240926&doi=10.1016%2fj.envint.2023.108081&partnerID=40&md5=30c661ec64e31e535058ff4369dfa452>>
Type of production: Scientific paper **Format:** Journal
- 9** J. Abril-Gago; P. Ortiz-Amezcuca; D. Bermejo-Pantaleón; J. Andújar-Maqueda; J.A. Bravo-Aranda; M.J. Granados-Muñoz; F. Navas-Guzmán; L. Alados-Arboledas; I. Foyo-Moreno; J.L. Guerrero-Rascado. Validation activities of Aeolus wind products on the southeastern Iberian Peninsula. *Atmospheric Chemistry and Physics*. 23 - 14, pp. 8453 - 8471. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85170830881&doi=10.5194%2facp-23-8453-2023&partnerID=40&md5=3dd78dc4d3f773a40b2fa00c0f23bd45>>
Type of production: Scientific paper **Format:** Journal
- 10** K. Michailidis; M.-E. Koukouli; D. Balis; J.P. Veefkind; M. De Graaf; L. Mona; N. Papagianopoulos; G. Pappalardo; I. Tsikoudi; V. Amiridis; E. Marinou; A. Gialitaki; R.-E. Mamouri; A. Nisantzi; D. Bortoli; M. João Costa; V. Salgueiro; A. Papayannis; M. Mylonaki; L. Alados-Arboledas; S. Romano; M.R. Perrone; H. Baars. Validation of the TROPOMI/S5P aerosol layer height using EARLINET lidars. *Atmospheric Chemistry and Physics*. 23 - 3, pp. 1919 - 1940. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85148751628&doi=10.5194%2facp-23-1919-2023&partnerID=40&md5=9d1f36b7389beb17364da66c38f17e74>>
Type of production: Scientific paper **Format:** Journal
- 11** M.A. López-Cayuela; C. Córdoba-Jabonero; D. Bermejo-Pantaleón; M. Sicard; V. Salgueiro; F. Molero; C.V. Carvajal-Pérez; M.J. Granados-Muñoz; A. Comerón; F.T. Couto; R. Barragán; M.-P. Zorzano; J.A. Bravo-Aranda; C. Muñoz-Porcar; M.J. Costa; B. Artiñano; A. Rodríguez-Gómez; D. Bortoli; M. Pujadas; J. Abril-Gago; L. Alados-Arboledas; J.L. Guerrero-Rascado. Vertical characterization of fine and coarse dust particles during an intense Saharan dust outbreak over the Iberian Peninsula in springtime 2021. *Atmospheric Chemistry and Physics*. 23 - 1, pp. 143 - 161. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147291417&doi=10.5194%2facp-23-143-2023&partnerID=40&md5=89bccf57b69b85d82ec5ce0a78ec5bf2>>
Type of production: Scientific paper **Format:** Journal
- 12** J.A. Casquero-Vera; H. Lyamani; G. Titos; G.D.A. Moreira; J.A. Benavent-Oltra; M. Conte; D. Contini; L. Järvi; F.J. Olmo-Reyes; L. Alados-Arboledas. Aerosol number fluxes and concentrations over a southern European urban area. *Atmospheric Environment*. 269, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85119199156&doi=10.1016%2fj.atmosenv.2021.118849&partnerID=40&md5=ce63c635a059dd9a5d9532aaabfb>>
Type of production: Scientific paper **Format:** Journal

13

P. Cariñanos; J.L. Guerrero-Rascado; A.M. Valle; A. Cazorla; G. Titos; I. Foyo-Moreno; L. Alados-Arboledas; C. Díaz de la Guardia. Assessing pollen extreme events over a Mediterranean site: Role of local surface meteorology. *Atmospheric Environment*. 272, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85123725130&doi=10.1016%2fj.atmosenv.2021.118928&partnerID=40&md5=e55d375b9489ed3a3bef949f9c5be>>

Type of production: Scientific paper**Format:** Journal**14**

P. Ortiz-Amezcuca; J. Andújar-Maqueda; A.J. Manninen; P. Pentikäinen; E.J. O'Connor; I.S. Stachlewska; G. de Arruda Moreira; J.A. Benavent-Oltra; J.A. Casquero-Vera; P. Poczta; D. Wang; K.M. Harenda; B.H. Chojnicki; D.M. Szczepanik; Ł. Janicka; D. Schüttemeyer; L. Alados-Arboledas; J.L. Guerrero-Rascado. Dynamics of the Atmospheric Boundary Layer over two middle-latitude rural sites with Doppler lidar. *Atmospheric Research*. 280, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85137896278&doi=10.1016%2fj.atmosres.2022.106434&partnerID=40&md5=60ce25c3a5f61a92afeea0c5ffd1ffda>>

Type of production: Scientific paper**Format:** Journal**15**

G. de Arruda Moreira; G. Sánchez-Hernández; J.L. Guerrero-Rascado; A. Cazorla; L. Alados-Arboledas. Estimating the urban atmospheric boundary layer height from remote sensing applying machine learning techniques. *Atmospheric Research*. 266, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85121130220&doi=10.1016%2fj.atmosres.2021.105962&partnerID=40&md5=7345424c3631106fa16cbe702f1e1>>

Type of production: Scientific paper**Format:** Journal**16**

C.M. Fajardo-Zambrano; J.A. Bravo-Aranda; M.J. Granados-Muñoz; E. Montilla-Rosero; J.A. Casquero-Vera; F. Rejano; S. Castillo; L. Alados-Arboledas. Lidar and Radar Signal Simulation: Stability Assessment of the Aerosol-Cloud Interaction Index. *Remote Sensing*. 14 - 6, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85126302281&doi=10.3390%2frs14061333&partnerID=40&md5=f8bceb3080e3649dcc498e84603126d1>>

Type of production: Scientific paper**Format:** Journal**17**

B.L. van Drooge; R. Garatachea; C. Reche; G. Titos; A. Alastuey; H. Lyamani; L. Alados-Arboledas; X. Querol; J.O. Grimalt. Primary and secondary organic winter aerosols in Mediterranean cities under different mixing layer conditions (Barcelona and Granada). *Environmental Science and Pollution Research*. 29 - 24, pp. 36255 - 36272. 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85123238979&doi=10.1007%2fs11356-021-16366-0&partnerID=40&md5=2350fdb03bb6cb914a0c0928fe45b22>>

Type of production: Scientific paper**Format:** Journal**18**

J. Abril-Gago; J.L. Guerrero-Rascado; M.J. Costa; J.A. Bravo-Aranda; M. Sicard; D. Bermejo-Pantaleón; D. Bortoli; M.J. Granados-Muñoz; A. Rodríguez-Gómez; C. Muñoz-Porcar; A. Comerón; P. Ortiz-Amezcuca; V. Salueiro; M.M. Jiménez-Martín; L. Alados-Arboledas. Statistical validation of Aeolus L2A particle backscatter coefficient retrievals over ACTRIS/EARLINET stations on the Iberian Peninsula. *Atmospheric Chemistry and Physics*. 22 - 2, pp. 1425 - 1451. 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85124085906&doi=10.5194%2facp-22-1425-2022&partnerID=40&md5=6c40a02684c32bfe3b16fbb988ad3cc6>>

Type of production: Scientific paper**Format:** Journal**19**

P. Ortiz-Amezcuca; A. Martínez-Herrera; A.J. Manninen; P.P. Pentikäinen; E.J. O'Connor; J.L. Guerrero-Rascado; L. Alados-Arboledas. Wind and Turbulence Statistics in the Urban Boundary Layer over a Mountain-Valley System in Granada, Spain. *Remote Sensing*. 14 - 10, 2022. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85130756287&doi=10.3390%2frs14102321&partnerID=40&md5=f0f33ddd49a09478cb23b9eaa9909296>>

Type of production: Scientific paper**Format:** Journal**20**

G. Titos; M.A. Burgos; P. Zieger; L. Alados-Arboledas; U. Baltensperger; A. Jefferson; J. Sherman; E. Weingartner; B. Henzing; K. Luoma; C. O'Dowd; A. Wiedensohler; E. Andrews. A global study of hygroscopicity-driven light-scattering enhancement in the context of other in situ aerosol optical properties. *Atmospheric Chemistry and Physics*. 21 - 17, pp. 13031 - 13050. 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85114346310&doi=10.5194%2facp-21-13031-2021&partnerID=40&md5=db203478db2db1c5bbbec1d7f737b901>>



Type of production: Scientific paper

Format: Journal

- 21** F. Rejano; G. Titos; J.A. Casquero-Vera; H. Lyamani; E. Andrews; P. Sheridan; A. Cazorla; S. Castillo; L. Alados-Arboledas; F.J. Olmo. Activation properties of aerosol particles as cloud condensation nuclei at urban and high-altitude remote sites in southern Europe. *Science of the Total Environment*. 762, 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093959805&doi=10.1016%2fj.scitotenv.2020.143100&partnerID=40&md5=dc143b333f7c5e80a4276ed38543>>

Type of production: Scientific paper

Format: Journal

- 22** P. Cariñanos; I. Foyo-Moreno; I. Alados; J.L. Guerrero-Rascado; S. Ruiz-Peñuela; G. Titos; A. Cazorla; L. Alados-Arboledas; C. Díaz de la Guardia. Bioaerosols in urban environments: Trends and interactions with pollutants and meteorological variables based on quasi-climatological series. *Journal of Environmental Management*. 282, 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099278616&doi=10.1016%2fj.jenvman.2021.111963&partnerID=40&md5=dce23e2beb920213495eafdb6bf829>>

Type of production: Scientific paper

Format: Journal

- 23** N. Evangelidou; S.M. Platt; S. Eckhardt; C. Lund Myhre; P. Laj; L. Alados-Arboledas; J. Backman; B.T. Brem; M. Fiebig; H. Flentje; A. Marinoni; M. Pandolfi; J. Yus-Diez; N. Prats; J.P. Putaud; K. Sellegri; M. Sorribas; K. Eleftheriadis; S. Vratolis; A. Wiedensohler; A. Stohl. Changes in black carbon emissions over Europe due to COVID-19 lockdowns. *Atmospheric Chemistry and Physics*. 21 - 4, pp. 2675 - 2692. 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85101348263&doi=10.5194%2facp-21-2675-2021&partnerID=40&md5=afb1c6d9198081e2a1da3d26c610e865>>

Type of production: Scientific paper

Format: Journal

- 24** J.A. Benavent-Oltra; J.A. Casquero-Vera; R. Román; H. Lyamani; D. Pérez-Ramírez; M.J. Granados-Munõz; M. Herrera; A. Cazorla; G. Titos; P. Ortiz-Amezcuca; A.E. Bedoya-Velásquez; G. De Arruda Moreira; N. Pérez; A. Alastuey; O. Dubovik; J.L. Guerrero-Rascado; F.J. Olmo-Reyes; L. Alados-Arboledas. Overview of the SLOPE I and II campaigns: Aerosol properties retrieved with lidar and sun-sky photometer measurements. *Atmospheric Chemistry and Physics*. 21 - 12, pp. 9269 - 9287. 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85108154058&doi=10.5194%2facp-21-9269-2021&partnerID=40&md5=8d2ea777785b7c5b5e8ff9bc45eb3bb>>

Type of production: Scientific paper

Format: Journal

- 25** J.A. Casquero-Vera; H. Lyamani; G. Titos; M.C. Minguillón; L. Dada; A. Alastuey; X. Querol; T. Petäjä; F.J. Olmo; L. Alados-Arboledas. Quantifying traffic, biomass burning and secondary source contributions to atmospheric particle number concentrations at urban and suburban sites. *Science of the Total Environment*. 768, 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85100565599&doi=10.1016%2fj.scitotenv.2021.145282&partnerID=40&md5=b46b79d84904cf9cb6022b34c5bd3>>

Type of production: Scientific paper

Format: Journal

- 26** F. Tummon; L.A. Arboledas; M. Bonini; B. Guinot; M. Hicke; C. Jacob; V. Kendrovski; W. McCairns; E. Petermann; V.-H. Peuch; O. Pfaar; M. Sicard; B. Sikoparija; B. Clot. The need for Pan-European automatic pollen and fungal spore monitoring: A stakeholder workshop position paper. *Clinical and Translational Allergy*. 11 - 3, 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85104967211&doi=10.1002%2fclt2.12015&partnerID=40&md5=167d1c74df66a47115f6a062e2708fda>>

Type of production: Scientific paper

Format: Journal

- 27** P. Laj; A. Bigi; C. Rose; E. Andrews; C. Lund Myhre; M. Collaud Coen; Y. Lin; A. Wiedensohler; M. Schulz; J. A. Ogren; M. Fiebig; J. Gliß; A. Mortier; M. Pandolfi; T. Petäjä; S.-W. Kim; W. Aas; J.-P. Putaud; O. Mayol-Bracero; M. Keywood; L. Labrador; P. Aalto; E. Ahlberg; L. Alados Arboledas; A. Alastuey; M. Andrade; B. Artinano; S. Ausmeel; T. Arsov; E. Asmi; J. Backman; U. Baltensperger; S. Bastian; O. Bath; J. Paul Beukes; B. T. Brem; N. Bukowiecki; S. Conil; C. Couret; D. Day; W. Dayantolis; A. Degorska; K. Eleftheriadis; P. Fetzatiz; O. Favez; H. Flentje; M. I. Gini; A. Gregorič; M. Gysel-Beer; A. Gannet Hallar; J. Hand; A. Hoffer; C. Hueglin; R. K. Hooda; A. Hyvärinen; I. Kalapov; N. Kalivitis; A. Kasper-Giebl; J. Eun Kim; G. Kouvarakis; I. Kranjc; R. Krejci; M. Kulmala; C. Labuschagne; H.-J. Lee; H. Lihavainen; N.-H. Lin; G. Löschau; K. Luoma; A. Marinoni;



S. Martins Dos Santos; F. Meinhardt; M. Merkel; J.-M. Metzger; N. Mihalopoulos; N. Anh Nguyen; J. Ondracek; N. Pérez; M. Rita Perrone; J.-M. Pichon; D. Picard; J.-M. Pichon; V. Pont; N. Prats; A. Prenni; F. Reisen; S. Romano; K. Sellegri; S. Sharma; G. Schauer; P. Sheridan; J. Patrick Sherman; M. Schütze; A. Schwerin; R. Sohmer; M. Sorribas; M. Steinbacher; J. Sun; G. Titos; B. Toczko; T. Tuch; P. Tulet; P. Tunved; V. Vakkari; F. Velarde; P. Velasquez; P. Villani; S. Vratolis; S.-H. Wang; K. Weinhold; R. Weller; M. Yela; J. Yus-Diez; V. Zdimal; P. Zieger; N. Zikova. A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. *Atmospheric Measurement Techniques*. 13 - 8, pp. 4353 - 4392. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089190707&doi=10.5194%2famt-13-4353-2020&partnerID=40&md5=716113d4a0d028799e235670038af5da>>

Type of production: Scientific paper

Format: Journal

- 28** M.A. Burgos; E. Andrews; G. Titos; A. Benedetti; H. Bian; V. Buchard; G. Curci; Z. Kipling; A. Kirkevåg; H. Kokkola; A. Laakso; J. Letertre-Danczak; M. T. Lund; H. Matsui; G. Myhre; C. Randles; M. Schulz; T. Van Noije; K. Zhang; L. Alados-Arboledas; U. Baltensperger; A. Jefferson; J. Sherman; J. Sun; E. Weingartner; P. Zieger. A global model-measurement evaluation of particle light scattering coefficients at elevated relative humidity. *Atmospheric Chemistry and Physics*. 20 - 17, pp. 10231 - 10258. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085077723&doi=10.5194%2facp-20-10231-2020&partnerID=40&md5=51098f3ac22ad83c2b077e35e4a4bacd>>

Type of production: Scientific paper

Format: Journal

- 29** N. Papagiannopoulos; G. D'Amico; A. Gialitaki; N. Ajtai; L. Alados-Arboledas; A. Amodeo; V. Amiridis; H. Baars; D. Balis; I. Biniotoglou; A. Comerón; D. Dionisi; A. Falconieri; P. Fréville; A. Kampouri; I. Mattis; Z. Mijić; F. Molero; A. Papayannis; G. Pappalardo; A. Rodríguez-Gómez; S. Solomos; L. Mona. An EARLINET early warning system for atmospheric aerosol aviation hazards. *Atmospheric Chemistry and Physics*. 20 - 18, pp. 10775 - 10789. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084766194&doi=10.5194%2facp-20-10775-2020&partnerID=40&md5=5f4273983d2be7663a5fb7680f8b4c48>>

Type of production: Scientific paper

Format: Journal

- 30** R. Román; R. González; C. Toledano; Á. Barreto; D. Pérez-Ramírez; J.A. Benavent-Oltra; F.J. Olmo; V.E. Cachorro; L. Alados-Arboledas; Á.M. de Frutos. Correction of a lunar-irradiance model for aerosol optical depth retrieval and comparison with a star photometer. *Atmospheric Measurement Techniques*. 13 - 11, pp. 6293 - 6310. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096935715&doi=10.5194%2famt-13-6293-2020&partnerID=40&md5=dee0eb5a29965ef86176fe3f661fae>>

Type of production: Scientific paper

Format: Journal

- 31** O. Soupiona; A. Papayannis; P. Kokkalis; R. Foskinis; G. Sánchez Hernández; P. Ortiz-Amezcuca; M. Mylonaki; C.-A. Papanikolaou; N. Papagiannopoulos; S. Samaras; S. Groß; R.-E. Mamouri; L. Alados-Arboledas; A. Amodeo; B. Psiloglou. EARLINET observations of Saharan dust intrusions over the northern Mediterranean region (2014-2017): Properties and impact on radiative forcing. *Atmospheric Chemistry and Physics*. 20 - 23, pp. 15147 - 15166. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097499142&doi=10.5194%2facp-20-15147-2020&partnerID=40&md5=4a1955db8d3b85078d7d771e4b4b4f69>>

Type of production: Scientific paper

Format: Journal

- 32** M.J. Granados-Muñoz; J.A. Benavent-Oltra; D. Pérez-Ramírez; H. Lyamani; J.L. Guerrero-Rascado; J.A. Bravo-Aranda; F. Navas-Guzmán; A. Valenzuela; F.J. Olmo; L. Alados-Arboledas. Evaluation of LIRIC algorithm performance using independent sun-sky photometer data at two altitude levels. *Remote Sensing*. 12 - 5, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081934967&doi=10.3390%2frs12050842&partnerID=40&md5=a175bcd9d9a78ed8fa2f45e75002996d>>

Type of production: Scientific paper

Format: Journal

- 33** P. Ortiz-Amezcuca; A.E. Bedoya-Velásquez; J.A. Benavent-Oltra; D. Pérez-Ramírez; I. Veselovskii; M. Castro-Santiago; J.A. Bravo-Aranda; A. Guedes; J.L. Guerrero-Rascado; L. Alados-Arboledas. Implementation of UV rotational Raman channel to improve aerosol retrievals from multiwavelength lidar. *Optics Express*. 28 - 6, pp. 8156 - 8168. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081685522&doi=10.1364%2foe.383441&partnerID=40&md5=def83efc4442bd4d7d9f753295aaa0ca>>



Type of production: Scientific paper

Format: Journal

- 34** J.A. Casquero-Vera; H. Lyamani; L. Dada; S. Hakala; P. Paasonen; R. Román; R. Fraile; T. Petäjä; F.J. Olmo-Reyes; L. Alados-Arboledas. New particle formation at urban and high-altitude remote sites in the south-eastern Iberian Peninsula. *Atmospheric Chemistry and Physics*. 20 - 22, pp. 14253 - 14271. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096933218&doi=10.5194%2facp-20-14253-2020&partnerID=40&md5=6130a3fb6ba6a549776a903f935fc59d>>

Type of production: Scientific paper

Format: Journal

- 35** G.D.A. Moreira; J.L. Guerrero-Rascado; J.A. Bravo-Aranda; I. Foyo-Moreno; A. Cazorla; I. Alados; H. Lyamani; E. Landulfo; L. Alados-Arboledas. Study of the planetary boundary layer height in an urban environment using a combination of microwave radiometer and ceilometer. *Atmospheric Research*. 240, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081001817&doi=10.1016%2fj.atmosres.2020.104932&partnerID=40&md5=6651c974d700e46ffeaed8d9f8e473>>

Type of production: Scientific paper

Format: Journal

- 36** A. Valenzuela; R.A. Rica; F.J. Olmo-Reyes; L. Alados-Arboledas. Testing a Paul trap through determining the evaporation rate of levitated single semi-volatile organic droplets. *Optics Express*. 28 - 23, pp. 34812 - 34824. 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096035132&doi=10.1364%2fOE.410590&partnerID=40&md5=3c7539323da833f87220b3188ac0c11e>>

Type of production: Scientific paper

Format: Journal

- 37** M.A. Burgos; E. Andrews; G. Titos; L. Alados-Arboledas; U. Baltensperger; D. Day; A. Jefferson; N. Kalivitis; N. Mihalopoulos; J. Sherman; J. Sun; E. Weingartner; P. Zieger. A global view on the effect of water uptake on aerosol particle light scattering. *Scientific Data*. 6 - 1, 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071498209&doi=10.1038%2fs41597-019-0158-7&partnerID=40&md5=c351ba3394c23ba323ae00e837e76437>>

Type of production: Scientific paper

Format: Journal

- 38** M.A. Burgos; E. Andrews; G. Titos; L. Alados-Arboledas; U. Baltensperger; D. Day; A. Jefferson; N. Kalivitis; N. Mihalopoulos; J. Sherman; J. Sun; E. Weingartner; P. Zieger. A global view on the effect of water uptake on aerosol particle light scattering. *Scientific data*. 6 - 1, pp. 157 - 157. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071498209&doi=10.1038%2fs41597-019-0158-7&partnerID=40&md5=c351ba3394c23ba323ae00e837e76437>>

Type of production: Scientific paper

Format: Journal

- 39** G. De Arruda Moreira; F.J. Da Silva Lopes; J.L. Guerrero-Rascado; J. João Da Silva; A.A. Gomes; E. Landulfo; L. Alados-Arboledas. Analyzing the atmospheric boundary layer using high-order moments obtained from multiwavelength lidar data: Impact of wavelength choice. *Atmospheric Measurement Techniques*. 12 - 8, pp. 4261 - 4276. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070379325&doi=10.5194%2famt-12-4261-2019&partnerID=40&md5=6774074fb37dbe97f2cc00c0365e1c97>>

Type of production: Scientific paper

Format: Journal

- 40** G. De Arruda Moreira; J.L. Guerrero-Rascado; J.A. Benavent-Oltra; P. Ortiz-Amezcuca; R. Román; A.E. Bedoya-Velásquez; J.A. Bravo-Aranda; F.J.O. Reyes; E. Landulfo; L. Alados-Arboledas. Analyzing the turbulent planetary boundary layer by remote sensing systems: The Doppler wind lidar, aerosol elastic lidar and microwave radiometer. *Atmospheric Chemistry and Physics*. 19 - 2, pp. 1263 - 1280. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060999684&doi=10.5194%2facp-19-1263-2019&partnerID=40&md5=c3a5a127e39356b2e641752d15721046>>

Type of production: Scientific paper

Format: Journal



- 41** I. Foyo-Moreno; I. Alados; J.L. Guerrero-Rascado; H. Lyamani; D. Pérez-Ramírez; F.J. Olmo; L. Alados-Arboledas. Contribution to column-integrated aerosol typing based on Sun-photometry using different criteria. *Atmospheric Research*. 224, pp. 1 - 17. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062976811&doi=10.1016%2fj.atmosres.2019.03.007&partnerID=40&md5=b12b95b01a3cf7defaf4e8b3881dcb2>>
Type of production: Scientific paper **Format:** Journal
- 42** A. Barreto; R. Román; E. Cuevas; D. Pérez-Ramírez; A.J. Berjón; N. Kouremeti; S. Kazadzis; J. Gröbner; M. Mazzola; C. Toledano; J.A. Benavent-Oltra; L. Doppler; J. Juryšek; A.F. Almansa; S. Victori; F. Maupin; C. Guirado-Fuentes; R. González; V. Vitale; P. Goloub; L. Blarel; L. Alados-Arboledas; E. Woolliams; S. Taylor; J.C. Antuña; M. Yela. Corrigendum to "Evaluation of night-time aerosols measurements and lunar irradiance models in the frame of the first multi-instrument nocturnal intercomparison campaign" (*Atmospheric Environment* (2019) 202 (190–211), (S1352231019300287), (10.1016/j.atmosenv.2019.01.006)). *Atmospheric Environment*. 214, 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069615507&doi=10.1016%2fj.atmosenv.2019.116841&partnerID=40&md5=47beea400fcb7ff0e0b757c0cbe372>>
Type of production: Scientific paper **Format:** Journal
- 43** J.A. Benavent-Oltra; R. Román; J. Andrés Casquero-Vera; D. Pérez-Ramírez; H. Lyamani; P. Ortiz-Amezcuca; A.E. Bedoya-Velásquez; G. De Arruda Moreira; A. Barreto; A. Lopatin; D. Fuertes; M. Herrera; B. Torres; O. Dubovik; J. Luis Guerrero-Rascado; P. Goloub; F.J. Olmo-Reyes; L. Alados-Arboledas. Different strategies to retrieve aerosol properties at night-time with the GRASP algorithm. *Atmospheric Chemistry and Physics*. 19 - 22, pp. 14149 - 14171. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075609166&doi=10.5194%2facp-19-14149-2019&partnerID=40&md5=3878d7f1a78efa7124abbae1c62ee4c2>>
Type of production: Scientific paper **Format:** Journal
- 44** A. Barreto; R. Román; E. Cuevas; D. Pérez-Ramírez; A.J. Berjón; N. Kouremeti; S. Kazadzis; J. Gröbner; M. Mazzola; C. Toledano; J.A. Benavent-Oltra; L. Doppler; J. Juryšek; A.F. Almansa; S. Victori; F. Maupin; C. Guirado-Fuentes; R. González; V. Vitale; P. Goloub; L. Blarel; L. Alados-Arboledas; E. Woolliams; S. Taylor; J.C. Antuña; M. Yela. Evaluation of night-time aerosols measurements and lunar irradiance models in the frame of the first multi-instrument nocturnal intercomparison campaign. *Atmospheric Environment*. pp. 190 - 211. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060703295&doi=10.1016%2fj.atmosenv.2019.01.006&partnerID=40&md5=c56f1d204d1b5ce4a20e2d2b263b4>>
Type of production: Scientific paper **Format:** Journal
- 45** A. Barreto; R. Román; E. Cuevas; D. Pérez-Ramírez; A.J. Berjón; N. Kouremeti; S. Kazadzis; J. Gröbner; M. Mazzola; C. Toledano; J.A. Benavent-Oltra; L. Doppler; J. Juryšek; A.F. Almansa; S. Victori; F. Maupin; C. Guirado-Fuentes; R. González; V. Vitale; P. Goloub; L. Blarel; L. Alados-Arboledas; E. Woolliams; S. Taylor; J.C. Antuña; M. Yela. Evaluation of night-time aerosols measurements and lunar irradiance models in the frame of the first multi-instrument nocturnal intercomparison campaign. *Atmospheric Environment*. 202, pp. 190 - 211. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060703295&doi=10.1016%2fj.atmosenv.2019.01.006&partnerID=40&md5=c56f1d204d1b5ce4a20e2d2b263b4>>
Type of production: Scientific paper **Format:** Journal
- 46** M. Herreras; R. Román; A. Cazorla; C. Toledano; H. Lyamani; B. Torres; V.E. Cachorro; F.J. Olmo; L. Alados-Arboledas; A.M. de Frutos. Evaluation of retrieved aerosol extinction profiles using as reference the aerosol optical depth differences between various heights. *Atmospheric Research*. 230, 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069716648&doi=10.1016%2fj.atmosres.2019.104625&partnerID=40&md5=55470de512d6dffecc44ce42c7e467>>
Type of production: Scientific paper **Format:** Journal
- 47** A. Quirantes; J.L. Guerrero-Rascado; D. Pérez-Ramírez; I. Foyo-Moreno; P. Ortiz-Amezcuca; J.A. Benavent-Oltra; H. Lyamani; G. Titos; J.A. Bravo-Aranda; A. Cazorla; A. Valenzuela; J.A. Casquero-Vera; A.E. Bedoya-Velásquez; L. Alados-Arboledas; F.J. Olmo. Extinction-related Angström exponent characterization of submicrometric volume fraction in atmospheric aerosol particles. *Atmospheric Research*. 228, pp. 270 - 280. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067794701&doi=10.1016%2fj.atmosres.2019.06.009&partnerID=40&md5=d66e6fe3cd47dcdc251edf48ec4d5d>>



Type of production: Scientific paper

Format: Journal

- 48** A.J. Fernández; M. Sicard; M.J. Costa; J.L. Guerrero-Rascado; J.L. Gómez-Amo; F. Molero; R. Barragán; S. Basart; D. Bortoli; A.E. Bedoya-Velásquez; M.P. Utrillas; P. Salvador; M.J. Granados-Muñoz; M. Potes; P. Ortiz-Amezcuca; J.A. Martínez-Lozano; B. Artíñano; C. Muñoz-Porcar; R. Salgado; R. Román; F. Rocadenbosch; V. Salgueiro; J.A. Benavent-Oltra; A. Rodríguez-Gómez; L. Alados-Arboledas; A. Comerón; M. Pujadas. Extreme, wintertime Saharan dust intrusion in the Iberian Peninsula: Lidar monitoring and evaluation of dust forecast models during the February 2017 event. *Atmospheric Research*. 228, pp. 223 - 241. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067449773&doi=10.1016%2fj.atmosres.2019.06.007&partnerID=40&md5=481b3c4f72b8a20760967d448a03a>>

Type of production: Scientific paper

Format: Journal

- 49** M. Sicard; M.J. Granados-Muñoz; L. Alados-Arboledas; R. Barragán; A.E. Bedoya-Velásquez; J.A. Benavent-Oltra; D. Bortoli; A. Comerón; C. Córdoba-Jabonero; M.J. Costa; A. del Águila; A.J. Fernández; J.L. Guerrero-Rascado; O. Jorba; F. Molero; C. Muñoz-Porcar; P. Ortiz-Amezcuca; N. Papagiannopoulos; M. Potes; M. Pujadas; F. Rocadenbosch; A. Rodríguez-Gómez; R. Román; R. Salgado; V. Salgueiro; Y. Sola; M. Yela. Ground/space, passive/active remote sensing observations coupled with particle dispersion modelling to understand the inter-continental transport of wildfire smoke plumes. *Remote Sensing of Environment*. 232, 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068578321&doi=10.1016%2fj.rse.2019.111294&partnerID=40&md5=8f3151c77201e70d336308e0c1466b7d>>

Type of production: Scientific paper

Format: Journal

- 50** M.J. Granados-Muñoz; M. Sicard; R. Román; J. Antonio Benavent-Oltra; R. Barragán; G. Brogniez; C. Denjean; M. Mallet; P. Formenti; B. Torres; L. Alados-Arboledas. Impact of mineral dust on shortwave and longwave radiation: Evaluation of different vertically resolved parameterizations in 1-D radiative transfer computations. *Atmospheric Chemistry and Physics*. 19 - 1, pp. 523 - 542. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060031824&doi=10.5194%2facp-19-523-2019&partnerID=40&md5=76cc13308b2cfaa61a482e8116bf946>>

Type of production: Scientific paper

Format: Journal

- 51** J.A. Casquero-Vera; H. Lyamani; G. Titos; E. Borrás; F.J. Olmo; L. Alados-Arboledas. Impact of primary NO₂ emissions at different urban sites exceeding the European NO₂ standard limit. *Science of the Total Environment*. 646, pp. 1117 - 1125. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050728781&doi=10.1016%2fj.scitotenv.2018.07.360&partnerID=40&md5=5d09d2ecc2e8acda5634b7607f1bc8>>

Type of production: Scientific paper

Format: Journal

- 52** J.A. Casquero-Vera; H. Lyamani; G. Titos; E. Borrás; F.J. Olmo; L. Alados-Arboledas. Impact of primary NO₂ emissions at different urban sites exceeding the European NO₂ standard limit. *Science of the Total Environment*. 646, pp. 1117 - 1125. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050728781&doi=10.1016%2fj.scitotenv.2018.07.360&partnerID=40&md5=5d09d2ecc2e8acda5634b7607f1bc8>>

Type of production: Scientific paper

Format: Journal

- 53** J.A. Casquero-Vera; H. Lyamani; G. Titos; E. Borrás; F.J. Olmo; L. Alados-Arboledas. Impact of primary NO₂ emissions at different urban sites exceeding the European NO₂ standard limit. *Science of the Total Environment*. 646, pp. 1117 - 1125. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050728781&doi=10.1016%2fj.scitotenv.2018.07.360&partnerID=40&md5=5d09d2ecc2e8acda5634b7607f1bc8>>

Type of production: Scientific paper

Format: Journal

- 54** A.E. Bedoya-Velásquez; G. Titos; J. Antonio Bravo-Aranda; M. Haefelin; O. Favez; J.-E. Petit; J. Andrés Casquero-Vera; F. José Olmo-Reyes; E. Montilla-Rosero; C.D. Hoyos; L. Alados-Arboledas; J. Luis Guerrero-Rascado. Long-term aerosol optical hygroscopicity study at the ACTRIS SIRTa observatory: Synergy between ceilometer and in situ measurements. *Atmospheric Chemistry and Physics*. 19 - 11, pp. 7883 - 7896. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067292077&doi=10.5194%2facp-19-7883-2019&partnerID=40&md5=8f5229b249a057d2d4f27bc3b55cf8a1>>



Type of production: Scientific paper

Format: Journal

- 55** E. Andrews; P.J. Sheridan; J.A. Ogren; D. Hageman; A. Jefferson; J. Wendell; A. Alástuey; L. Alados-Arboledas; M. Bergin; M. Ealo; A. Gannet Hallar; A. Hoffer; I. Kalapov; M. Keywood; J. Kim; S.-W. Kim; F. Kolonjari; C. Labuschagne; N.-H. Lin; A. Macdonald; O.L. Mayol-Bracero; I.B. McCubbin; M. Pandolfi; F. Reisen; S. Sharma; J.P. Sherman; M. Sorribas; J. Sun. Overview of the NOAA/ESRL federated aerosol network. *Bulletin of the American Meteorological Society*. 100 - 1, pp. 123 - 135. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059004314&doi=10.1175%2fBAMS-D-17-0175.1&partnerID=40&md5=e99af003487cab666ccbd7f586eaeaa9>>.

Type of production: Scientific paper

Format: Journal

- 56** O. Soupiona; S. Samaras; P. Ortiz-Amezcuca; C. Böckmann; A. Papayannis; G.A. Moreira; J.A. Benavent-Oltra; J.L. Guerrero-Rascado; A.E. Bedoya-Velásquez; F.J. Olmo; R. Román; P. Kokkalis; M. Mylonaki; L. Alados-Arboledas; C.A. Papanikolaou; R. Foskinis. Retrieval of optical and microphysical properties of transported Saharan dust over Athens and Granada based on multi-wavelength Raman lidar measurements: Study of the mixing processes. *Atmospheric Environment*. 214, 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068843821&doi=10.1016%2fj.atmosenv.2019.116824&partnerID=40&md5=59bd4ac7764574997b2256c04791>>.

Type of production: Scientific paper

Format: Journal

- 57** A.E. Bedoya-Velásquez; F. Navas-Guzmán; G. de Arruda Moreira; R. Román; A. Cazorla; P. Ortiz-Amezcuca; J.A. Benavent-Oltra; L. Alados-Arboledas; F.J. Olmo-Reyes; I. Foyo-Moreno; E. Montilla-Rosero; C.D. Hoyos; J.L. Guerrero-Rascado. Seasonal analysis of the atmosphere during five years by using microwave radiometry over a mid-latitude site. *Atmospheric Research*. 218, pp. 78 - 89. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057157845&doi=10.1016%2fj.atmosres.2018.11.014&partnerID=40&md5=c585841f44009dec6e3b0f00d4e85e>>.

Type of production: Scientific paper

Format: Journal

- 58** H. Baars; A. Ansmann; K. Ohneiser; M. Haarig; R. Engelmann; D. Althausen; I. Hanssen; M. Gausa; A. Pietruczuk; A. Szkop; I.S. Stachlewska; D. Wang; J. Reichardt; A. Skupin; I. Mattis; T. Trickl; H. Vogelmann; F. Navas-Guzmán; A. Haeferle; K. Acheson; A.A. Ruth; B. Tatarov; D. Müller; Q. Hu; T. Podvin; P. Goloub; I. Veselovskii; C. Pietras; M. Haeffelin; P. Fréville; M. Sicard; A. Comerón; A.J.F. García; F.M. Menéndez; C. Córdoba-Jabonero; J.L. Guerrero-Rascado; L. Alados-Arboledas; D. Bortoli; M.J. Costa; D. Dionisi; G.L. Liberti; X. Wang; A. Sannino; N. Papagiannopoulos; A. Boselli; L. Mona; G. D'Amico; S. Romano; M.R. Perrone; L. Belegante; D. Nicolae; I. Grigorov; A. Gialitaki; V. Amiridis; O. Soupiona; A. Papayannis; R.-E. Mamouri; A. Nisantzi; B. Heese; J. Hofer; Y.Y. Schechner; U. Wandinger; G. Pappalardo. The unprecedented 2017-2018 stratospheric smoke event: Decay phase and aerosol properties observed with the EARLINET. *Atmospheric Chemistry and Physics*. 19 - 23, pp. 15183 - 15198. 2019. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068562447&doi=10.5194%2facp-19-15183-2019&partnerID=40&md5=ae67ced6423839303de0a6da642ca890>>.

Type of production: Scientific paper

Format: Journal

- 59** M. Pandolfi; L. Alados-Arboledas; A. Alastuey; M. Andrade; C. Angelov; B. Artiñano; J. Backman; U. Baltensperger; P. Bonasoni; N. Bukowiecki; M. Collaud Coen; S. Conil; E. Coz; V. Crenn; V. Dudoitis; M. Ealo; K. Eleftheriadis; O. Favez; P. Fetfatzis; M. Fiebig; H. Flentje; P. Ginot; M. Gysel; B. Henzing; A. Hoffer; A. Holubova Smejkalova; I. Kalapov; N. Kalivitis; G. Kouvarakis; A. Kristensson; M. Kulmala; H. Lihavainen; C. Lunder; K. Luoma; H. Lyamani; A. Marinoni; N. Mihalopoulos; M. Moerman; J. Nicolas; C. O'Dowd; T. Petäjä; J.-E. Petit; J. Marc Pichon; N. Prokopciuk; J.-P. Putaud; S. Rodríguez; J. Sciare; K. Sellegri; E. Swietlicki; G. Titos; T. Tuch; P. Tunved; V. Ulevicius; A. Vaishya; M. Vana; A. Virkkula; S. Vratolis; E. Weingartner; A. Wiedensohler; P. Laj. A European aerosol phenomenology - 6: Scattering properties of atmospheric aerosol particles from 28 ACTRIS sites. *Atmospheric Chemistry and Physics*. 18 - 11, pp. 7877 - 7911. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048229461&doi=10.5194%2facp-18-7877-2018&partnerID=40&md5=2953a18d55210dfa7dcec627d72f3a47>>.

Type of production: Scientific paper

Format: Journal



60

I. Foyo-Moreno; I. Alados; L. Alados-Arboledas. A new empirical model to estimate hourly diffuse photosynthetic photon flux density. *Atmospheric Research*. 203, pp. 189 - 196. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85039990046&doi=10.1016%2fj.atmosres.2017.12.012&partnerID=40&md5=4d478c8ed9d3ea325c46c7da6ccd3>>

Type of production: Scientific paper

Format: Journal

61

N. Papagiannopoulos; L. Mona; A. Amodeo; G. D'Amico; P. Gumà Claramunt; G. Pappalardo; L. Alados-Arboledas; J. Luis Guerrero-Rascado; V. Amiridis; P. Kokkalis; A. Apituley; H. Baars; A. Schwarz; U. Wandinger; I. Biniotoglou; D. Nicolae; D. Bortoli; A. Comerón; A. Rodríguez-Gómez; M. Sicard; A. Papayannis; M. Wiegner. An automatic observation-based aerosol typing method for EARLINET. *Atmospheric Chemistry and Physics*. 18 - 21, pp. 15879 - 15901. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051997198&doi=10.5194%2facp-18-15879-2018&partnerID=40&md5=a7d4e7b726f7326128a56c47be96385b>>

Type of production: Scientific paper

Format: Journal

62

H. Horvath; L. Alados Arboledas; F. José Olmo Reyes. Angular scattering of the Sahara dust aerosol. *Atmospheric Chemistry and Physics*. 18 - 23, pp. 17735 - 17744. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058635831&doi=10.5194%2facp-18-17735-2018&partnerID=40&md5=52c45b3fb909b05fa4795f8e1b1fc734>>

Type of production: Scientific paper

Format: Journal

63

G. Titos; A. Cazorla; P. Zieger; E. Andrews; H. Lyamani; M.J. Granados-Muñoz; F.J. Olmo; L. Alados-Arboledas. Erratum to 'Effect of hygroscopic growth on the aerosol light-scattering coefficient: A review of measurements, techniques and error sources' [*Atmos. Environ.* 141C (2016) 494–507] (S1352231016305404) (10.1016/j.atmosenv.2016.07.021). *Atmospheric Environment*. 179, pp. 331 - 331. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042374515&doi=10.1016%2fj.atmosenv.2018.02.030&partnerID=40&md5=3cfa520ab558be0d4e0cbdbe64f82f>>

Type of production: Scientific paper

Format: Journal

64

L. Belegante; J. Antonio Bravo-Aranda; V. Freudenthaler; D. Nicolae; A. Nemuc; D. Ene; L. Alados-Arboledas; A. Amodeo; G. Pappalardo; G. D'Amico; F. Amato; R. Engelmann; H. Baars; U. Wandinger; A. Papayannis; P. Kokkalis; S.N. Pereira. Experimental techniques for the calibration of lidar depolarization channels in EARLINET. *Atmospheric Measurement Techniques*. 11 - 2, pp. 1119 - 1141. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042719441&doi=10.5194%2famt-11-1119-2018&partnerID=40&md5=80d033b649af1211fbb3ad385c5a606c>>

Type of production: Scientific paper

Format: Journal

65

A.E. Bedoya-Velásquez; F. Navas-Guzmán; M.J. Granados-Muñoz; G. Titos; R. Román; J. Andrés Casquero-Vera; P. Ortiz-Amezcuca; J. Antonio Benavent-Oltra; G. De Arruda Moreira; E. Montilla-Rosero; C.D. Hoyos; B. Artiñano; E. Coz; F.J. Olmo-Reyes; L. Alados-Arboledas; J.L. Guerrero-Rascado. Hygroscopic growth study in the framework of EARLINET during the SLOPE i campaign: Synergy of remote sensing and in situ instrumentation. *Atmospheric Chemistry and Physics*. 18 - 10, pp. 7001 - 7017. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047268818&doi=10.5194%2facp-18-7001-2018&partnerID=40&md5=e6260cfdc3d6cc168bb410c425775f33>>

Type of production: Scientific paper

Format: Journal

66

R. Román; J.A. Benavent-Oltra; J.A. Casquero-Vera; A. Lopatin; A. Cazorla; H. Lyamani; C. Denjean; D. Fuertes; D. Pérez-Ramírez; B. Torres; C. Toledano; O. Dubovik; V.E. Cachorro; A.M. de Frutos; F.J. Olmo; L. Alados-Arboledas. Retrieval of aerosol profiles combining sunphotometer and ceilometer measurements in GRASP code. *Atmospheric Research*. 204, pp. 161 - 177. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044365066&doi=10.1016%2fj.atmosres.2018.01.021&partnerID=40&md5=3063fb097cd9e459592ff227475b88>>

Type of production: Scientific paper

Format: Journal



67

A. del Águila; M. Sorribas; H. Lyamani; G. Titos; F.J. Olmo; G. Arruda-Moreira; M. Yela; L. Alados-Arboledas. Sources and physicochemical characteristics of submicron aerosols during three intensive campaigns in Granada (Spain). *Atmospheric Research*. 213, pp. 398 - 410. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049481742&doi=10.1016%2fj.atmosres.2018.06.004&partnerID=40&md5=1aae5f876efbe0f5d4c898ca7c0c95a>>

Type of production: Scientific paper

Format: Journal

68

G. de Arruda Moreira; J.L. Guerrero-Rascado; J.A. Bravo-Aranda; J.A. Benavent-Oltra; P. Ortiz-Amezcuca; R. Róman; A.E. Bedoya-Velásquez; E. Landulfo; L. Alados-Arboledas. Study of the planetary boundary layer by microwave radiometer, elastic lidar and Doppler lidar estimations in Southern Iberian Peninsula. *Atmospheric Research*. 213, pp. 185 - 195. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047239959&doi=10.1016%2fj.atmosres.2018.06.007&partnerID=40&md5=bf430783433db9b7b06dbe939bfe8c>>

Type of production: Scientific paper

Format: Journal

69

E. Alonso-Blanco; F.J. Gómez-Moreno; B. Artñano; S. Iglesias-Samitier; V. Juncal-Bello; M. Piñeiro-Iglesias; P. López-Mahía; N. Pérez; M. Brines; A. Alastuey; M.I. García; S. Rodríguez; M. Sorribas; A.D. Águila; G. Titos; H. Lyamani; L. Alados-Arboledas. Temporal and spatial variability of atmospheric particle number size distributions across Spain. *Atmospheric Environment*. 190, pp. 146 - 160. 2018. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049970512&doi=10.1016%2fj.atmosenv.2018.06.046&partnerID=40&md5=e5152a5c676ed08393d0d43e74b3>>

Type of production: Scientific paper

Format: Journal

70

I. Foyo-Moreno; I. Alados; L. Alados-Arboledas. A new conventional regression model to estimate hourly photosynthetic photon flux density under all sky conditions. *International Journal of Climatology*. 37, pp. 1067 - 1075. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016773889&doi=10.1002%2fjoc.5063&partnerID=40&md5=a54ad89b3381fb6fbaad40c723c4412a>>

Type of production: Scientific paper

Format: Journal

71

J.A. Bravo-Aranda; G. De Arruda Moreira; F. Navas-Guzmán; M.J. Granados-Muñoz; J.L. Guerrero-Rascado; D. Pozo-Vázquez; C. Arbizu-Barrena; F. José Olmo Reyes; M. Mallet; L. Alados Arboledas. 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*. 17 - 11, pp. 6839 - 6851. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020718794&doi=10.5194%2facp-17-6839-2017&partnerID=40&md5=a1f8e0bc0cc40951c859ac1210c821c8>>

Type of production: Scientific paper

Format: Journal

72

A. Valenzuela; A. Arola; M. Antón; A. Quirantes; L. Alados-Arboledas. Black carbon radiative forcing derived from AERONET measurements and models over an urban location in the southeastern Iberian Peninsula. *Atmospheric Research*. 191, pp. 44 - 56. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015664705&doi=10.1016%2fj.atmosres.2017.03.007&partnerID=40&md5=e858de8784b9d17820c19aa36b88b>>

Type of production: Scientific paper

Format: Journal

73

R. Román; A. Cazorla; C. Toledano; F.J. Olmo; V.E. Cachorro; A. de Frutos; L. Alados-Arboledas. Cloud cover detection combining high dynamic range sky images and ceilometer measurements. *Atmospheric Research*. 196, pp. 224 - 236. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021138988&doi=10.1016%2fj.atmosres.2017.06.006&partnerID=40&md5=0d5cbd9b9867c524b40b3855ebd10>>

Type of production: Scientific paper

Format: Journal

74

J.A. Benavent-Oltra; R. Román; M.J. Granados-Munöz; D. Pérez-Ramírez; P. Ortiz-Amezcuca; C. Denjean; A. Lopatin; H. Lyamani; B. Torres; J.L. Guerrero-Rascado; D. Fuertes; O. Dubovik; A. Chaikovskiy; F.J. Olmo; M. Mallet; L. Alados-Arboledas. Comparative assessment of GRASP algorithm for a dust event over Granada (Spain) during ChArMEx-ADRI-MED 2013 campaign. *Atmospheric Measurement Techniques*. 10 - 11, pp. 4439 - 4457. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034616628&doi=10.5194%2fam-10-4439-2017&partnerID=40&md5=2b1bdb5281da63577527a4891c2af0a7>>

Type of production: Scientific paper

Format: Journal

- 75** L. Palacios-Peña; R. Baró; J.L. Guerrero-Rascado; L. Alados-Arboledas; D. Brunner; P. Jiménez-Guerrero. Evaluating the representation of aerosol optical properties using an online coupled model over the Iberian Peninsula. *Atmospheric Chemistry and Physics*. 17 - 1, pp. 277 - 296. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009115328&doi=10.5194%2facp-17-277-2017&partnerID=40&md5=e2bd61eee240a627694bd6e48ccaab4>>.
Type of production: Scientific paper **Format:** Journal
- 76** P. Ortiz-Amezcuca; J. Luis Guerrero-Rascado; M.J. Granados-Munõz; J.A. Benavent-Oltra; C. Böckmann; S. Samaras; I.S. Stachlewska; L. Janicka; H. Baars; S. Bohlmann; L. Alados-Arboledas. Microphysical characterization of long-range transported biomass burning particles from North America at three EARLINET stations. *Atmospheric Chemistry and Physics*. 17 - 9, pp. 5931 - 5946. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019479310&doi=10.5194%2facp-17-5931-2017&partnerID=40&md5=f3f867d4e8e22455d416b2983deb1fc2>>.
Type of production: Scientific paper **Format:** Journal
- 77** D. Patrón; H. Lyamani; G. Titos; J.A. Casquero-Vera; C. Cardell; G. Mo?nik; L. Alados-Arboledas; F.J. Olmo. Monumental heritage exposure to urban black carbon pollution. *Atmospheric Environment*. 170, pp. 22 - 32. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030182560&doi=10.1016%2fj.atmosenv.2017.09.030&partnerID=40&md5=37e7ab65183446889ebb899becfd2>>.
Type of production: Scientific paper **Format:** Journal
- 78** D. Pérez-Ramírez; M. Andrade-Flores; T.F. Eck; A.F. Stein; N.T. O'Neill; H. Lyamani; S. Gassó; D.N. Whiteman; I. Veselovskii; F. Velarde; L. Alados-Arboledas. Multi year aerosol characterization in the tropical Andes and in adjacent Amazonia using AERONET measurements. *Atmospheric Environment*. 166, pp. 412 - 432. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026489949&doi=10.1016%2fj.atmosenv.2017.07.037&partnerID=40&md5=dff5bf14ca7faacbb7dc211689a7470>>.
Type of production: Scientific paper **Format:** Journal
- 79** A. Cazorla; J. Andrés Casquero-Vera; R. Román; J. Luis Guerrero-Rascado; C. Toledano; V.E. Cachorro; J.A.G. Orza; M.L. Cancillo; A. Serrano; G. Titos; M. Pandolfi; A. Alastuey; N. Hanrieder; L. Alados-Arboledas. 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*. 17 - 19, pp. 11861 - 11876. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030757372&doi=10.5194%2facp-17-11861-2017&partnerID=40&md5=9bd93e472221ac47e077602894624e25>>.
Type of production: Scientific paper **Format:** Journal
- 80** F. Mandija; M. Sicard; A. Comerón; L. Alados-Arboledas; J.L. Guerrero-Rascado; R. Barragan; J.A. Bravo-Aranda; M.J. Granados-Muñoz; H. Lyamani; C. Muñoz Porcar; F. Roca-denbosch; A. Rodríguez; A. Valenzuela; D. García Vizcaíno. Origin and pathways of the mineral dust transport to two Spanish EARLINET sites: Effect on the observed columnar and range-resolved dust optical properties. *Atmospheric Research*. 187, pp. 69 - 83. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007472413&doi=10.1016%2fj.atmosres.2016.12.002&partnerID=40&md5=58057ad26f9f6153f40d3273f4b20df>>.
Type of production: Scientific paper **Format:** Journal
- 81** R. Román; B. Torres; D. Fuertes; V.E. Cachorro; O. Dubovik; C. Toledano; A. Cazorla; A. Barreto; J.L. Bosch; T. Lapyonok; R. González; P. Goloub; M.R. Perrone; F.J. Olmo; A. de Frutos; L. Alados-Arboledas. 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*. 196, pp. 238 - 252. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019593046&doi=10.1016%2fj.rse.2017.05.013&partnerID=40&md5=ed1bc8d0bbd6e335c988bdf3530f2f7>>.
Type of production: Scientific paper **Format:** Journal



- 82** G. Titos; A. del Águila; A. Cazorla; H. Lyamani; J.A. Casquero-Vera; C. Colombi; E. Cuccia; V. Gianelle; G. Možnik; A. Alastuey; F.J. Olmo; L. Alados-Arboledas. Spatial and temporal variability of carbonaceous aerosols: Assessing the impact of biomass burning in the urban environment. *Science of the Total Environment*. 578, pp. 613 - 625. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85004143311&doi=10.1016%2fj.scitotenv.2016.11.007&partnerID=40&md5=efa940b670a309343ce837da805658>>
Type of production: Scientific paper **Format:** Journal
- 83** R. Barragan; M. Sicard; J. Totems; J.F. León; F. Dulac; M. Mallet; J. Pelon; L. Alados-Arboledas; A. Amodeo; P. Augustin; A. Boselli; J.A. Bravo-Aranda; P. Burlizzi; P. Chazette; A. Comerón; G. D'Amico; P. Dubuisson; M.J. Granados-Muñoz; G. Leto; J.L. Guerrero-Rascado; F. Madonna; L. Mona; C. Muñoz-Porcar; G. Pappalardo; M.R. Perrone; V. Pont; F. Rocadenbosch; A. Rodriguez-Gomez; S. Scollo; N. Spinelli; G. Titos; X. Wang; R.Z. Sanchez. 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*. 10 - 3, pp. 261 - 285. 2017. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009274876&doi=10.1007%2fs11869-016-0447-7&partnerID=40&md5=bcf29e04a183c3569e9653fcede67c81>>
Type of production: Scientific paper **Format:** Journal
- 84** M.J. Granados-Muñoz; J.A. Bravo-Aranda; D. Baumgardner; J.L. Guerrero-Rascado; D. Pérez-Ramírez; F. Navas-Guzmán; I. Veselovskii; H. Lyamani; A. Valenzuela; F.J. Olmo; G. Titos; J. Andrey; A. Chaikovskiy; O. Dubovik; M. Gil-Ojeda; L. Alados-Arboledas. 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*. 9 - 3, pp. 1113 - 1133. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961774517&doi=10.5194%2famt-9-1113-2016&partnerID=40&md5=2c0c3fe8d64dc1f2d3a0e3a6eb0200d0>>
Type of production: Scientific paper **Format:** Journal
- 85** M. Sicard; R. Barragan; F. Dulac; L. Alados-Arboledas; M. Mallet. Aerosol optical, microphysical and radiative properties at regional background insular sites in the western Mediterranean. *Atmospheric Chemistry and Physics*. 16 - 18, pp. 12177 - 12203. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989245012&doi=10.5194%2facp-16-12177-2016&partnerID=40&md5=4a495e29ae6856101aa6f274572abb89>>
Type of production: Scientific paper **Format:** Journal
- 86** M. Sicard; R. Barragan; F. Dulac; L. Alados-Arboledas; M. Mallet. Aerosol optical, microphysical and radiative properties at three regional background insular sites in the western Mediterranean Basin. *Atmospheric Chemistry and Physics Discussions*. 2016, 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029423314&doi=10.5194%2facp-2015-823&partnerID=40&md5=25b96a9ef4556e5b08e35afab5bdbcb27>>
Type of production: Scientific paper **Format:** Journal
- 87** J. Antonio Bravo-Aranda; L. Belegante; V. Freudenthaler; L. Alados-Arboledas; D. Nicolae; M.J. Granados-Muñoz; J. Luis Guerrero-Rascado; A. Amodeo; G. D'Amico; R. Engelmann; G. Pappalardo; P. Kokkalis; R. Mamouri; A. Papayannis; F. Navas-Guzmán; F. José Olmo; U. Wandinger; F. Amato; M. Haefelin. Assessment of lidar depolarization uncertainty by means of a polarimetric lidar simulator. *Atmospheric Measurement Techniques*. 9 - 10, pp. 4935 - 4953. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84990840484&doi=10.5194%2famt-9-4935-2016&partnerID=40&md5=bb9b5a420cb14d0e1176c8a9283a7f13>>
Type of production: Scientific paper **Format:** Journal
- 88** O. Caumont; D. Cimini; U. Löhnert; L. Alados-Arboledas; R. Bleisch; F. Buffa; M.E. Ferrario; A. Haefele; T. Huet; F. Madonna; G. Pace. 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*. 142 - 700, pp. 2692 - 2704. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982893758&doi=10.1002%2fqj.2860&partnerID=40&md5=a4e0263a3806b9a6d34b64ada9c5ea9d>>
Type of production: Scientific paper **Format:** Journal



- 89** N. Papagiannopoulos; L. Mona; L. Alados-Arboledas; V. Amiridis; H. Baars; I. Biniotoglou; D. Bortoli; G. D'Amico; A. Giunta; J. Luis Guerrero-Rascado; A. Schwarz; S. Pereira; N. Spinelli; U. Wandinger; X. Wang; G. Pappalardo. CALIPSO climatological products: Evaluation and suggestions from EARLINET. *Atmospheric Chemistry and Physics*. 16 - 4, pp. 2341 - 2357. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959387041&doi=10.5194%2facp-16-2341-2016&partnerID=40&md5=683aefa6d56efb9aaf7dc8803d5dfc1a>>. **Type of production:** Scientific paper **Format:** Journal
- 90** M. Sicard; R. Barragan; C. Muñoz-Porcar; A. Comerón; M. Mallet; F. Dulac; J. Pelon; L. Alados Arboledas; A. Amodeo; A. Boselli; J.A. Bravo-Aranda; G. D'Amico; M.J. Granados Muñoz; G. Leto; J.L. Guerrero Rascado; F. Madonna; L. Mona; G. Pappalardo; M.R. Perrone; P. Burlizzi; F. Rocadenbosch; A. Rodríguez-Gómez; S. Scollo; N. Spinelli; G. Titos; X. Wang; R. Zanmar Sanchez. Contribution of EARLINET/ACTRIS to the summer 2013 Special Observing Period of the ChArMEx project: monitoring of a Saharan dust event over the western and central Mediterranean. *International Journal of Remote Sensing*. 37 - 19, pp. 4698 - 4711. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84990855929&doi=10.1080%2f01431161.2016.1222102&partnerID=40&md5=e28dd49c10794cafa6f90571f3229>>. **Type of production:** Scientific paper **Format:** Journal
- 91** U. Wandinger; V. Freudenthaler; H. Baars; A. Amodeo; R. Engelmann; I. Mattis; S. Groß; G. Pappalardo; A. Giunta; G. D'Amico; A. Chaikovsky; F. Osipenko; A. Slesar; D. Nicolae; L. Belegante; C. Talianu; I. Serikov; H. Linné; F. Jansen; A. Apituley; K. M. Wilson; M. De Graaf; T. Trickl; H. Giehl; M. Adam; A. Comerón; C. Muñoz-Porcar; F. Rocadenbosch; M. Sicard; S. Tomás; D. Lange; D. Kumar; M. Pujadas; F. Molero; A. J. Fernández; L. Alados-Arboledas; J. Antonio Bravo-Aranda; F. Navas-Guzmán; J. Luis Guerrero-Rascado; M.J. Granados-Munoz; J. Preißler; F. Wagner; M. Gausa; I. Grigorov; D. Stoyanov; M. Iarlori; V. Rizi; N. Spinelli; A. Boselli; X. Wang; T. Lo Feudo; M. Rita Perrone; F. De Tomasi; P. Burlizzi. EARLINET instrument intercomparison campaigns: Overview on strategy and results. *Atmospheric Measurement Techniques*. 9 - 3, pp. 1001 - 1023. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960926137&doi=10.5194%2famt-9-1001-2016&partnerID=40&md5=7a52e5115dd74b12e195c633513a2e9a>>. **Type of production:** Scientific paper **Format:** Journal
- 92** G. Titos; A. Cazorla; P. Zieger; E. Andrews; H. Lyamani; M.J. Granados-Muñoz; F.J. Olmo; L. Alados-Arboledas. Effect of hygroscopic growth on the aerosol light-scattering coefficient: A review of measurements, techniques and error sources. *Atmospheric Environment*. 141, pp. 494 - 507. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978380215&doi=10.1016%2fj.atmosenv.2016.07.021&partnerID=40&md5=8f78ffcc65d8ea4ad8a03230fd6e54>>. **Type of production:** Scientific paper **Format:** Journal
- 93** M. Mallet; F. Dulac; P. Formenti; P. Nabat; J. Sciare; G. Roberts; J. Pelon; G. Ancellet; D. Tanré; F. Parol; C. Denjean; G. Brogniez; A. Di Sarra; L. Alados-Arboledas; J. Arndt; F. Auriol; L. Blarel; T. Bourriane; P. Chazette; S. Chevallier; M. Claeys; B. D'Anna; Y. Derimian; K. Desboeufs; T. Di Iorio; J.-F. Doussin; P. Durand; A. Féron; E. Freney; C. Gaimoz; P. Goloub; J.L. Gómez-Amo; M.J. Granados-Muñoz; N. Grand; E. Hamonou; I. Jankowiak; M. Jeannot; J.-F. Léon; M. Maillé; S. Mailler; D. Meloni; L. Menut; G. Momboisse; J. Nicolas; T. Podvin; V. Pont; G. Rea; J.-B. Renard; L. Roblou; K. Schepanski; A. Schwarzenboeck; K. Sellegri; M. Sicard; F. Solmon; S. Somot; B. Torres; J. Totems; S. Triquet; N. Verdier; C. Verwaerde; F. Waquet; J. Wenger; P. Zapf. Overview of the Chemistry-Aerosol Mediterranean Experiment/Aerosol Direct Radiative Forcing on the Mediterranean Climate (ChArMEx/ADRIMED) summer 2013 campaign. *Atmospheric Chemistry and Physics*. 16 - 2, pp. 455 - 504. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84955478730&doi=10.5194%2facp-16-455-2016&partnerID=40&md5=e3492a0fd3206c6dac0c947d1ebcc859>>. **Type of production:** Scientific paper **Format:** Journal
- 94** M.J. Granados-Muñoz; F. Navas-Guzmán; J. Luis Guerrero-Rascado; J. Antonio Bravo-Aranda; I. Biniotoglou; S. Nepomuceno Pereira; S. Basart; J.M. Baldasano; L. Belegante; A. Chaikovsky; A. Comerón; G. D'Amico; O. Dubovik; L. Ilic; P. Kokkalis; C. Muñoz-Porcar; S. Nickovic; D. Nicolae; F. José Olmo; A. Papayannis; G. Pappalardo; A. Rodríguez; K. Schepanski; M. Sicard; A. Vukovic; U. Wandinger; F. Dulac; L. Alados-Arboledas. Profiling of aerosol microphysical properties at several EARLINET/AERONET sites during the July 2012 ChArMEx/EMEP campaign. *Atmospheric Chemistry and Physics*. 16 -



11, pp. 7043 - 7066. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84974539693&doi=10.5194%2facp-16-7043-2016&partnerID=40&md5=2ac59e15dbf2f94617be31b7223bfb85>>.

Type of production: Scientific paper

Format: Journal

- 95** H. Horvath; M. Kasahara; S. Tohno; F.J. Olmo; H. Lyamani; L. Alados-Arboledas; A. Quirantes; V. Cachorro. Relationship between fraction of backscattered light and asymmetry parameter. *Journal of Aerosol Science*. 91, pp. 43 - 53. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944392814&doi=10.1016%2fj.jaerosci.2015.09.003&partnerID=40&md5=65ae76dfa7ddbdfa2feab7c3e89ab69>>.

Type of production: Scientific paper

Format: Journal

- 96** M. Antón; A. Cazorla; D. Mateos; M.J. Costa; F.J. Olmo; L. Alados-Arboledas. Sensitivity of UV Erythral Radiation to Total Ozone Changes under Different Sky Conditions: Results for Granada, Spain. *Photochemistry and Photobiology*. 92 - 1, pp. 215 - 219. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84955322279&doi=10.1111%2fphp.12539&partnerID=40&md5=1ab5882b2039aba44610b72cb1c48233>>.

Type of production: Scientific paper

Format: Journal

- 97** P. Serrano-Ortiz; E.P. Sánchez-Cañete; F.J. Olmo; S. Metzger; O. Pérez-Priego; A. Carrara; L. Alados-Arboledas; A.S. Kowalski. Surface-Parallel Sensor Orientation for Assessing Energy Balance Components on Mountain Slopes. *Boundary-Layer Meteorology*. 158 - 3, pp. 489 - 499. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958747819&doi=10.1007%2fs10546-015-0099-4&partnerID=40&md5=0108d9f053946bb43818c9a6ce3d8630>>.

Type of production: Scientific paper

Format: Journal

- 98** F. Mandija; J.L. Guerrero-Rascado; H. Lyamani; M.J. Granados-Muñoz; L. Alados-Arboledas. Synergic estimation of columnar integrated aerosol properties and their vertical resolved profiles in respect to the scenarios of dust intrusions over Granada. *Atmospheric Environment*. 145, pp. 439 - 454. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989192000&doi=10.1016%2fj.atmosenv.2016.09.045&partnerID=40&md5=03f2e18aa1a146fb460db7a5ea759>>.

Type of production: Scientific paper

Format: Journal

- 99** Á. Barreto; E. Cuevas; M.-J. Granados-Muñoz; L. Alados-Arboledas; P.M. Romero; J. Gröbner; N. Kouremeti; A.F. Almansa; T. Stone; C. Toledano; R. Román; M. Sorokin; B. Holben; M. Canini; M. Yela. The new sun-sky-lunar Cimel CE318-T multiband photometer – A comprehensive performance evaluation. *Atmospheric Measurement Techniques*. 9 - 2, pp. 631 - 654. 2016. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959418974&doi=10.5194%2famt-9-631-2016&partnerID=40&md5=bcb89304b8c37660588a738ddeb83b69>>.

Type of production: Scientific paper

Format: Journal

- 100** M. Sorribas; J.A. Adame; F.J. Olmo; J.M. Vilaplana; M. Gil-Ojeda; L. Alados-Arboledas. A long-term study of new particle formation in a coastal environment: Meteorology, gas phase and solar radiation implications. *Science of the Total Environment*. 511, pp. 723 - 737. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84921447161&doi=10.1016%2fj.scitotenv.2014.12.011&partnerID=40&md5=f26a0aa5fece4bda7caea42da490fac>>.

Type of production: Scientific paper

Format: Journal

- 101** I. Biniotoglou; S. Basart; L. Alados-Arboledas; V. Amiridis; A. Argyrouli; H. Baars; J.M. Baldasano; D. Balis; L. Belegante; J.A. Bravo-Aranda; P. Burlizzi; V. Carrasco; A. Chaikovsky; A. Comerón; G. D'Amico; M. Filioglou; M.J. Granados-Muñoz; J.L. Guerrero-Rascado; L. Ilic; P. Kokkalis; A. Maurizi; L. Mona; F. Monti; C. Muñoz-Porcar; D. Nicolae; A. Papayannis; G. Pappalardo; G. Pejanovic; S.N. Pereira; M.R. Perrone; A. Pietruczuk; M. Posyniak; F. Rocadenbosch; A. Rodríguez-Gómez; M. Sicard; N. Siomos; A. Szkop; E. Terradellas; A. Tsekeri; A. Vukovic; U. Wandinger; J. Wagner. A methodology for investigating dust model performance using synergistic EARLINET/AERONET dust concentration retrievals. *Atmospheric Measurement Techniques*. 8 - 9, pp. 3577 - 3600. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941009984&doi=10.5194%2famt-8-3577-2015&partnerID=40&md5=dee22e9e856b25c5c62320a18cb7e4be>>.

Type of production: Scientific paper

Format: Journal

- 102** H. Lyamani; A. Valenzuela; D. Perez-Ramirez; C. Toledano; M.J. Granados-Muñoz; F.J. Olmo; L. Alados-Arboledas. Aerosol properties over the western Mediterranean basin: Temporal and spatial variability. *Atmospheric Chemistry and Physics*. 15 - 5, pp. 2473 - 2486. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84924376736&doi=10.5194%2facp-15-2473-2015&partnerID=40&md5=3cc796b128633245f1b10eace2117979>>.

Type of production: Scientific paper

Format: Journal

- 103** A. Valenzuela; F.J. Olmo; H. Lyamani; M. Antón; G. Titos; A. Cazorla; L. Alados-Arboledas. Aerosol scattering and absorption Angström exponents as indicators of dust and dust-free days over Granada (Spain). *Atmospheric Research*. 154, pp. 1 - 13. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84909998296&doi=10.1016%2fj.atmosres.2014.10.015&partnerID=40&md5=272750e6e3c780631b8f8e926a596>>.

Type of production: Scientific paper

Format: Journal

- 104** M. Sorribas; J.A. Ogren; F.J. Olmo; A. Quirantes; R. Fraile; M. Gil-Ojeda; L. Alados-Arboledas. Assessment of african desert dust episodes over the southwest spain at sea level using in situ aerosol optical and microphysical properties. *Tellus, Series B: Chemical and Physical Meteorology*. 67 - 1, 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940417082&doi=10.3402%2ftellusb.v67.27482&partnerID=40&md5=fbee98e6690d54b547bfe734ae01975a>>.

Type of production: Scientific paper

Format: Journal

- 105** M. Sicard; G. D'Amico; A. Comerón; L. Mona; L. Alados-Arboledas; A. Amodeo; H. Baars; J.M. Baldasano; L. Belegante; I. Binietoglou; J.A. Bravo-Aranda; A.J. Fernández; P. Fréville; D. García-Vizcaíno; A. Giunta; M.J. Granados-Muñoz; J.L. Guerrero-Rascado; D. Hadjimitsis; A. Haeferle; M. Hervo; M. Iarlori; P. Kokkalis; D. Lange; R.E. Mamouri; I. Mattis; F. Molero; N. Montoux; A. Muñoz; C. Muñoz Porcar; F. Navas-Guzmán; D. Nicolae; A. Nisantzi; N. Papagiannopoulos; A. Papayannis; S. Pereira; J. Preißler; M. Pujadas; V. Rizi; F. Rocadenbosch; K. Sellegri; V. Simeonov; G. Tsaknakis; F. Wagner; G. Pappalardo. EARLINET: Potential operationality of a research network. *Atmospheric Measurement Techniques*. 8 - 11, pp. 4587 - 4613. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941013050&doi=10.5194%2famt-8-4587-2015&partnerID=40&md5=1b6d31e6ad2481d4bf059c0808fc9a39>>.

Type of production: Scientific paper

Format: Journal

- 106** G. Titos; H. Lyamani; L. Drinovec; F.J. Olmo; G. Mořnik; L. Alados-Arboledas. Evaluation of the impact of transportation changes on air quality. *Atmospheric Environment*. 114, pp. 19 - 31. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84929493028&doi=10.1016%2fj.atmosenv.2015.05.027&partnerID=40&md5=6ce5020fa83be6fb2822ec3f9d4e83>>.

Type of production: Scientific paper

Format: Journal

- 107** D. Pérez-Ramírez; I. Veselovskii; D.N. Whiteman; A. Suvorina; M. Korenskiy; A. Kolgotin; B. Holben; O. Dubovik; A. Siniuk; L. Alados-Arboledas. 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*. 8 - 8, pp. 3117 - 3133. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84938709262&doi=10.5194%2famt-8-3117-2015&partnerID=40&md5=78f039cec09e701b9b041d216b08bcf5>>.

Type of production: Scientific paper

Format: Journal

- 108** M.J. Granados-Muñoz; F. Navas-Guzmán; J.A. Bravo-Aranda; J.L. Guerrero-Rascado; H. Lyamani; A. Valenzuela; G. Titos; J. Fernández-Gálvez; L. Alados-Arboledas. Hygroscopic growth of atmospheric aerosol particles based on active remote sensing and radiosounding measurements: Selected cases in southeastern Spain. *Atmospheric Measurement Techniques*. 8 - 2, pp. 705 - 718. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84922880227&doi=10.5194%2famt-8-705-2015&partnerID=40&md5=48081dfd990b4432f6ed2284129a7566>>.

Type of production: Scientific paper

Format: Journal



- 109** F.J. Gómez-Moreno; E. Alonso; B. Artíñano; V. Juncal-Bello; S. Iglesias-Samitier; M.P. Iglesias; P.L. Mahía; N. Pérez; J. Pey; A. Ripoll; A. Alastuey; B.A. De La Morena; M.I. García; S. Rodríguez; M. Sorribas; G. Titos; H. Lyamani; L. Alados-Arboledas; E. Latorre; T. Tritscher; O.F. Bischof. Intercomparisons of mobility size spectrometers and condensation particle counters in the frame of the Spanish atmospheric observational aerosol network. *Aerosol Science and Technology*. 49 - 9, pp. 777 - 785. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84943382016&doi=10.1080%2f02786826.2015.1074656&partnerID=40&md5=5cf962e931b7864b85003b256161>>
Type of production: Scientific paper **Format:** Journal
- 110** A. Cazorla; C. Husillos; M. Antón; L. Alados-Arboledas. Multi-exposure adaptive threshold technique for cloud detection with sky imagers. *Solar Energy*. 114, pp. 268 - 277. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84923646306&doi=10.1016%2fj.solener.2015.02.006&partnerID=40&md5=aee521474c54b74a2a44f28dc9692e1>>
Type of production: Scientific paper **Format:** Journal
- 111** M. Mallet; F. Dulac; P. Formenti; P. Nabat; J. Sciare; G. Roberts; J. Pelon; G. Ancellet; D. Tanré; F. Parol; A. Di Sarra; L. Alados; J. Arndt; F. Auriol; L. Blarel; T. Bourriane; G. Brogniez; P. Chazette; S. Chevaillier; M. Claeys; B. D'Anna; C. Denjean; Y. Derimian; K. Desboeufs; T. Di Iorio; J.-F. Doussin; P. Durand; A. Féron; E. Freney; C. Gaimoz; P. Goloub; J.L. Gómez-Amo; M.J. Granados-Muñoz; N. Grand; E. Hamonou; I. Jankowiak; M. Jeannot; J.-F. Léon; M. Maillé; S. Mailler; D. Meloni; L. Menut; G. Momboisse; J. Nicolas; J. Podvin; V. Pont; G. Rea; J.-B. Renard; L. Roblou; K. Schepanski; A. Schwarzenboeck; K. Sellegri; M. Sicard; F. Solmon; S. Somot; B. Torres; J. Totems; S. Triquet; N. Verdier; C. Verwaerde; J. Wenger; P. Zapf. Overview of the Chemistry-Aerosol Mediterranean Experiment/Aerosol Direct Radiative Forcing on the Mediterranean Climate (ChArMEx/ADRIMED) summer 2013 campaign. *Atmospheric Chemistry and Physics Discussions*. 15 - 14, pp. 19615 - 19727. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961631244&doi=10.5194%2facpd-15-19615-2015&partnerID=40&md5=fd98a6b1d350ecc8ac239ee87785a461>>
Type of production: Scientific paper **Format:** Journal
- 112** M. Sorribas; F.J. Olmo; A. Quirantes; H. Lyamani; M. Gil-Ojeda; L. Alados-Arboledas; H. Horvath. Role of spheroidal particles in closure studies for aerosol microphysical-optical properties. *Quarterly Journal of the Royal Meteorological Society*. 141 - 692, pp. 2700 - 2707. 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84946486760&doi=10.1002%2fqj.2557&partnerID=40&md5=a8f888633ebd25153572a9c6dee5e524>>
Type of production: Scientific paper **Format:** Journal
- 113** J.A. Bravo-Aranda; G. Titos; M.J. Granados-Muñoz; J.L. Guerrero-Rascado; F. Navas-Guzmán; A. Valenzuela; H. Lyamani; F.J. Olmo; J. Andrey; L. Alados-Arboledas. Study of mineral dust entrainment in the planetary boundary layer by lidar depolarisation technique. *Tellus, Series B: Chemical and Physical Meteorology*. 67 - 1, 2015. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84930966089&doi=10.3402%2ftellusb.v67.26180&partnerID=40&md5=e14925922a48cf555cde4501f3d378df>>
Type of production: Scientific paper **Format:** Journal
- 114** M. Antón; D. Mateos; R. Román; A. Valenzuela; L. Alados-Arboledas; F.J. Olmo. A method to determine the ozone radiative forcing in the ultraviolet range from experimental data. *Journal of Geophysical Research*. 119 - 4, pp. 1860 - 1873. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84897015285&doi=10.1002%2f2013JD020444&partnerID=40&md5=dee3cc3f64a178aa7e04699771bab01b>>
Type of production: Scientific paper **Format:** Journal
- 115** J.L. Corredor-Ardoy; J.A. Bravo-Aranda; M.J. Granados-Muñoz; J.L. Guerrero-Rascado; J. Fernández-Gálvez; A. Cazorla; L. Alados-Arboledas. Active and passive remote sensing for monitoring the planetary boundary layer height. *Optica Pura y Aplicada*. 47 - 2, pp. 83 - 90. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904667252&doi=10.7149%2fOPA.47.2.83&partnerID=40&md5=98d8effd8dd821f000e2a6922d254dda>>
Type of production: Scientific paper **Format:** Journal



- 116** G. Titos; A. Jefferson; P.J. Sheridan; E. Andrews; H. Lyamani; L. Alados-Arboledas; J.A. Ogren. Aerosol light-scattering enhancement due to water uptake during the TCAP campaign. *Atmospheric Chemistry and Physics*. 14 - 13, pp. 7031 - 7043. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904185988&doi=10.5194%2facp-14-7031-2014&partnerID=40&md5=ada519e35953e4680b065380425684e9>>
Type of production: Scientific paper **Format:** Journal
- 117** D. Mateos; M. Antón; C. Toledano; V.E. Cachorro; L. Alados-Arboledas; M. Sorribas; M.J. Costa; J.M. Baldasano. 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*. 14 - 24, pp. 13497 - 13514. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84919460699&doi=10.5194%2facp-14-13497-2014&partnerID=40&md5=9fe29455199258fb51f123cf7b974383>>.
Type of production: Scientific paper **Format:** Journal
- 118** A. Valenzuela; F.J. Olmo; H. Lyamani; M.J. Granados-Muñoz; M. Antón; J.L. Guerrero-Rascado; A. Quirantes; C. Toledano; D. Perez-Ramírez; L. Alados-Arboledas. 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*. 119 - 24, pp. 14,028 - "14,044". 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84921436527&doi=10.1002%2f2014JD022044&partnerID=40&md5=a219dd8627d02de55af8e0c8e1be9740>>.
Type of production: Scientific paper **Format:** Journal
- 119** A. Valenzuela; F.J. Olmo; H. Lyamani; M.J. Granados-Muñoz; M. Antón; J.L. Guerrero-Rascado; A. Quirantes; C. Toledano; D. Perez-Ramírez; L. Alados-Arboledas. 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*. 119 - 22, pp. 14,028 - "14,044". 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018741302&doi=10.1002%2f2014JD022044&partnerID=40&md5=867e4737717750e46f70e4c64957b7ef>>.
Type of production: Scientific paper **Format:** Journal
- 120** Y. Wang; K.N. Sartelet; M. Bocquet; P. Chazette; M. Sicard; G. D'Amico; J.F. León; L. Alados-Arboledas; A. Amodeo; P. Augustin; J. Bach; L. Belegante; I. Binietoglou; X. Bush; A. Comerón; H. Delbarre; D. García-Vízcaíno; J.L. Guerrero-Rascado; M. Hervo; M. Iarlori; P. Kokkalis; D. Lange; F. Molero; N. Montoux; A. Muñoz; C. Muñoz; D. Nicolae; A. Papayannis; G. Pappalardo; J. Preissler; V. Rizi; F. Rocadenbosch; K. Sellegri; F. Wagner; F. Dulac. Assimilation of lidar signals: Application to aerosol forecasting in the western Mediterranean basin. *Atmospheric Chemistry and Physics*. 14 - 22, pp. 12031 - 12053. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84911886007&doi=10.5194%2facp-14-12031-2014&partnerID=40&md5=fbbbfe567fd32b731eb666e05669988>>.
Type of production: Scientific paper **Format:** Journal
- 121** G. Pavese; L. Alados-Arboledas; J. Cao; S.K. Satheesh. Carbonaceous particles in the atmosphere: Experimental and modelling issues. *Advances in Meteorology*. 2014, 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84902130867&doi=10.1155%2f2014%2f529850&partnerID=40&md5=63091e8a78a356e8094d72a8a4ff1184>>.
Type of production: Scientific paper **Format:** Journal
- 122** P. Ortiz-Amezcuca; J.L. Guerrero-Rascado; M.J. Granados-Muñoz; J.A. Bravo-Aranda; L. Alados-Arboledas. 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*. 47 - 1, pp. 43 - 49. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84896371919&doi=10.7149%2fOPA.47.1.43&partnerID=40&md5=d5d0bc44fee5a471e33d2ba2788f519b>>.
Type of production: Scientific paper **Format:** Journal
- 123** S. Segura; V. Estellés; G. Titos; H. Lyamani; M.P. Utrillas; P. Zotter; A.S.H. Prévôt; G. Moñik; L. Alados-Arboledas; J.A. Martínez-Lozano. Determination and analysis of in situ spectral aerosol optical properties by a multi-instrumental approach. *Atmospheric Measurement Techniques*. 7 -



8, pp. 2373 - 2387. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84905674465&doi=10.5194%2famt-7-2373-2014&partnerID=40&md5=78ba910184ed13072ed454a60a38fc6c>>.

Type of production: Scientific paper

Format: Journal

- 124** G. Pappalardo; A. Amodio; A. Apituley; A. Comerón; V. Freudenthaler; H. Linné; A. Ansmann; J. Bösenberg; G. D'Amico; I. Mattis; L. Mona; U. Wandinger; V. Amiridis; L. Alados-Arboledas; D. Nicolae; M. Wiegner. EARLINET: Towards an advanced sustainable European aerosol lidar network. *Atmospheric Measurement Techniques*. 7 - 8, pp. 2389 - 2409. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904163888&doi=10.5194%2famt-7-2389-2014&partnerID=40&md5=b7077ec3052ea57e46c56630c93b69fa>>.

Type of production: Scientific paper

Format: Journal

- 125** D. Mateos; M. Antón; A. Valenzuela; A. Cazorla; F.J. Olmo; L. Alados-Arboledas. Efficiency of clouds on shortwave radiation using experimental data. *Applied Energy*. 113, pp. 1216 - 1219. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84884399892&doi=10.1016%2fj.apenergy.2013.08.060&partnerID=40&md5=47a7f551a03b0167c422e01a342a5>>.

Type of production: Scientific paper

Format: Journal

- 126** I. Foyo-Moreno; I. Alados; M. Antón; J. Fernández-Gálvez; A. Cazorla; L. Alados-Arboledas. Estimating aerosol characteristics from solar irradiance measurements at an urban location in Southeastern Spain. *Journal of Geophysical Research*. 119 - 4, pp. 1845 - 1859. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84896986584&doi=10.1002%2f2013JD020599&partnerID=40&md5=92cde286e258d9783309b30a7d1bc412>>.

Type of production: Scientific paper

Format: Journal

- 127** D. Pérez-Ramírez; D.N. Whiteman; A. Smirnov; H. Lyamani; B.N. Holben; R. Pinker; M. Andrade; L. Alados-Arboledas. Evaluation of AERONET precipitable water vapor versus microwave radiometry, GPS, and radiosondes at ARM sites. *Journal of Geophysical Research*. 119 - 15, pp. 9596 - 9613. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84906708102&doi=10.1002%2f2014JD021730&partnerID=40&md5=9b9b146c5c9b6969c48f1cd0a47fe6af>>.

Type of production: Scientific paper

Format: Journal

- 128** A.A. Piedehierro; M. Antón; A. Cazorla; L. Alados-Arboledas; F.J. Olmo. Evaluation of enhancement events of total solar irradiance during cloudy conditions at Granada (Southeastern Spain). *Atmospheric Research*. 135-136, pp. 1 - 7. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84884181250&doi=10.1016%2fj.atmosres.2013.08.008&partnerID=40&md5=b29e8afb4d962feb0024567f20af3>>.

Type of production: Scientific paper

Format: Journal

- 129** N. Rogelj; J.L. Guerrero-Rascado; F. Navas-Guzmán; J.A. Bravo-Aranda; M.J. Granados-Muñoz; L. Alados-Arboledas. Experimental determination of UV- and VIS- lidar overlap function. *Optica Pura y Aplicada*. 47 - 3, pp. 169 - 175. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84916942378&doi=10.7149%2fOPA.47.3.169&partnerID=40&md5=573a13a698c9cef6b92b9d75f6ddfc6d>>.

Type of production: Scientific paper

Format: Journal

- 130** G. Titos; H. Lyamani; M. Pandolfi; A. Alastuey; L. Alados-Arboledas. Identification of fine (PM₁) and coarse (PM₁₀₋₁) sources of particulate matter in an urban environment. *Atmospheric Environment*. 89, pp. 593 - 602. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84895933715&doi=10.1016%2fj.atmosenv.2014.03.001&partnerID=40&md5=e6da119ed1f67dfec6ea0249ee8dd>>.

Type of production: Scientific paper

Format: Journal

- 131** G. Titos; H. Lyamani; M. Pandolfi; A. Alastuey; L. Alados-Arboledas. Identification of fine (PM₁) and coarse (PM₁₀₋₁) sources of particulate matter in an urban environment. *Atmospheric Environment*. 89, pp. 593 - 602. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84895933715&doi=10.1016%2fj.atmosenv.2014.03.001&partnerID=40&md5=e6da119ed1f67dfec6ea0249ee8dd>>.

Type of production: Scientific paper

Format: Journal



- 132** M. Antón; A. Valenzuela; D. Mateos; I. Alados; I. Foyo-Moreno; F.J. Olmo; L. Alados-Arboledas. Longwave aerosol radiative effects during an extreme desert dust event in southeastern Spain. *Atmospheric Research*. 148, pp. 18 - 23. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84902342900&doi=10.1016%2fj.atmosres.2014.05.022&partnerID=40&md5=445457628e83a77ca5d02e9a30579>>
- Type of production:** Scientific paper **Format:** Journal
- 133** J.L. Guerrero-Rascado; R.F. Da Costa; A.E. Bedoya; R. Guardani; L. Alados-Arboledas; Á.E. Bastidas; E. Landulfo. Multispectral elastic scanning lidar for industrial flare research: Characterizing the electronic subsystem and application. *Optics Express*. 22 - 25, pp. 31063 - 31077. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84919608443&doi=10.1364%2fOE.22.031063&partnerID=40&md5=3eb62874248ed1ed7b9cd53a7452285f>>
- Type of production:** Scientific paper **Format:** Journal
- 134** M.J. Granados-Muñoz; J.L. Guerrero-Rascado; J.A. Bravo-Aranda; F. Navas-Guzmán; A. Valenzuela; H. Lyamani; A. Chaikovsky; U. Wandinger; A. Ansmann; O. Dubovik; J.O. Grudo; L. Alados-Arboledas. Retrieving aerosol microphysical properties by Lidar-Radiometer Inversion Code (LIRIC) for different aerosol types. *Journal of Geophysical Research*. 119 - 8, pp. 4836 - 4858. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84900551388&doi=10.1002%2f2013JD021116&partnerID=40&md5=ff8ac3d21217d9d0d9176d503fdc62ad>>
- Type of production:** Scientific paper **Format:** Journal
- 135** G. Titos; H. Lyamani; A. Cazorla; M. Sorribas; I. Foyo-Moreno; A. Wiedensohler; L. Alados-Arboledas. Study of the relative humidity dependence of aerosol light-scattering in southern Spain. *Tellus, Series B: Chemical and Physical Meteorology*. 66 - 1, 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84939576191&doi=10.3402%2ftellusb.v66.24536&partnerID=40&md5=04b9b87ba2229fafd30684c363ec015c>>
- Type of production:** Scientific paper **Format:** Journal
- 136** F. Navas-Guzmán; J. Fernández-Gálvez; M.J. Granados-Muñoz; J.L. Guerrero-Rascado; J.A. Bravo-Aranda; L. Alados-Arboledas. Tropospheric water vapour and relative humidity profiles from lidar and microwave radiometry. *Atmospheric Measurement Techniques*. 7 - 5, pp. 1201 - 1211. 2014. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84900419410&doi=10.5194%2famt-7-1201-2014&partnerID=40&md5=f5183f9aa624f06246655253bf5d9c36>>
- Type of production:** Scientific paper **Format:** Journal
- 137** J. Fernández-Gálvez; J.L. Guerrero-Rascado; F. Molero; H. Lyamani; M.A. Revuelta; F. Navas-Guzmán; M. Sastre; J.A. Bravo-Aranda; A.J. Fernández; M.J. Granados-Muñoz; F.J. Gómez-Moreno; F.J. Olmo; M. Pujadas; L. Alados-Arboledas. Aerosol size distribution from inversion of solar radiances and measured at ground-level during SPAL10 campaign. *Atmospheric Research*. 127, pp. 130 - 140. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84876736310&doi=10.1016%2fj.atmosres.2012.03.015&partnerID=40&md5=46546a4a8b7e86e1e7b6b40ddb582>>
- Type of production:** Scientific paper **Format:** Journal
- 138** J.A. Bravo-Aranda; F. Navas-Guzmán; J.L. Guerrero-Rascado; D. Pérez-Ramírez; M.J. Granados-Muñoz; L. Alados-Arboledas. Analysis of lidar depolarization calibration procedure and application to the atmospheric aerosol characterization. *International Journal of Remote Sensing*. 34 - 9-10, pp. 3543 - 3560. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84873649879&doi=10.1080%2f01431161.2012.716546&partnerID=40&md5=71c34f2860b764c26adc55d1697e9>>
- Type of production:** Scientific paper **Format:** Journal
- 139** M. Antón; R. Román; A. Valenzuela; F.J. Olmo; L. Alados-Arboledas. Direct-sun total ozone data from a spectroradiometer: Methodology and comparison with satellite observations. *Atmospheric Measurement Techniques*. 6 - 1, pp. 637 - 647. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84882768335&doi=10.5194%2famt-6-637-2013&partnerID=40&md5=97b767678396b6957e5c2336c5467771>>

Type of production: Scientific paper

Format: Journal

- 140** D. Pérez-Ramírez; D.N. Whiteman; I. Veselovskii; A. Kolgotin; M. Korenskiy; L. Alados-Arboledas. Effects of systematic and random errors on the retrieval of particle microphysical properties from multiwavelength lidar measurements using inversion with regularization. *Atmospheric Measurement Techniques*. 6 - 11, pp. 3039 - 3054. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84885811995&doi=10.5194%2famf-6-3039-2013&partnerID=40&md5=19330507d23cf2dd43e93198d31ed651>>

Type of production: Scientific paper

Format: Journal

- 141** F. Navas-Guzmán; D. Müller; J.A. Bravo-Aranda; J.L. Guerrero-Rascado; M.J. Granados-Muñoz; D. Pérez-Ramírez; F.J. Olmo; L. Alados-Arboledas. Eruption of the Eyjafjallajökull Volcano in spring 2010: Multiwavelength Raman lidar measurements of sulphate particles in the lower troposphere. *Journal of Geophysical Research Atmospheres*. 118 - 4, pp. 1804 - 1813. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84880859875&doi=10.1002%2fjgrd.50116&partnerID=40&md5=6281556b6fd94f47f10448a632c8e1f5>>.

Type of production: Scientific paper

Format: Journal

- 142** R. Román; M. Antón; A. Valenzuela; J.E. Gil; H. Lyamani; A. De Miguel; F. Olmo; J. Bilbao; L. Alados-Arboledas. Evaluation of the desert dust effects on global, direct and diffuse spectral ultraviolet irradiance. *Tellus, Series B: Chemical and Physical Meteorology*. 65 - 1, 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84907421518&doi=10.3402%2ftellusb.v65i0.19578&partnerID=40&md5=21c5c542ea1052851556aabdc51e9347>>.

Type of production: Scientific paper

Format: Journal

- 143** G. Pappalardo; L. Mona; G. D'Amico; U. Wandinger; M. Adam; A. Amodeo; A. Ansmann; A. Apituley; L. Alados Arboledas; D. Balis; A. Boselli; J.A. Bravo-Aranda; A. Chaikovskiy; A. Comeron; J. Cuesta; F. De Tomasi; V. Freudenthaler; M. Gausa; E. Giannakaki; H. Giehl; A. Giunta; I. Grigorov; S. Groß; M. Haeffelin; A. Hiebsch; M. Iarlori; D. Lange; H. Linné; F. Madonna; I. Mattis; R.-E. Mamouri; M.A.P. McAuliffe; V. Mitev; F. Molero; F. Navas-Guzmán; D. Nicolae; A. Papayannis; M.R. Perrone; C. Pietras; A. Pietruczuk; G. Pisani; J. Preißler; M. Pujadas; V. Rizi; A.A. Ruth; J. Schmidt; F. Schnell; P. Seifert; I. Serikov; M. Sicard; V. Simeonov; N. Spinelli; K. Stebel; M. Tesche; T. Trickl; X. Wang; F. Wagner; M. Wiegner; K.M. Wilson. Four-dimensional distribution of the 2010 Eyjafjallajökull volcanic cloud over Europe observed by EARLINET. *Atmospheric Chemistry and Physics*. 13 - 8, pp. 4429 - 4450. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84884216622&doi=10.5194%2facp-13-4429-2013&partnerID=40&md5=29cce107a3897ec63f6ecdc9abe9658a>>.

Type of production: Scientific paper

Format: Journal

- 144** D. Pérez-Ramírez; H. Lyamani; F.J. Olmo; L. Alados-Arboledas. Retrieval of aerosol microphysical properties by means of sun and star photometry at Granada, Spain. *International Journal of Remote Sensing*. 34 - 9-10, pp. 3607 - 3624. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84873627941&doi=10.1080%2f01431161.2012.716917&partnerID=40&md5=83a91eb3df7d6b043e5f96ec3e499f>>.

Type of production: Scientific paper

Format: Journal

- 145** D. Mateos; M. Antón; A. Valenzuela; A. Cazorla; F.J. Olmo; L. Alados-Arboledas. Short-wave radiative forcing at the surface for cloudy systems at a midlatitude site. *Tellus, Series B: Chemical and Physical Meteorology*. 65 - 1, 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84886993642&doi=10.3402%2ftellusb.v65i0.21069&partnerID=40&md5=a5fc33b1dbd7b4ce78116ccf8d2f2c46>>.

Type of production: Scientific paper

Format: Journal

- 146** F. Navas-Guzmán; J.A. Bravo-Aranda; J.L. Guerrero-Rascado; M.J. Granados-Muñoz; L. Alados-Arboledas. Statistical analysis of aerosol optical properties retrieved by Raman lidar over Southeastern Spain. *Tellus, Series B: Chemical and Physical Meteorology*. 65 - 1, 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84905825952&doi=10.3402%2ftellusb.v65i0.21234&partnerID=40&md5=49d37d364b446ee910e5c15a6eb6ab4c>>.

Type of production: Scientific paper

Format: Journal



- 147** X. Querol; A. Alastuey; M. Viana; T. Moreno; C. Reche; M.C. Minguillón; A. Ripoll; M. Pandolfi; F. Amato; A. Karanasiou; N. Pérez; J. Pey; M. Cusack; R. Vázquez; F. Plana; M. Dall'Osto; J. De La Rosa; A. Sánchez De La Campa; R. Fernández-Camacho; S. Rodríguez; C. Pio; L. Alados-Arboledas; G. Titos; B. Artíñano; P. Salvador; S. García Dos Santos; R. Fernández Patier. Variability of carbonaceous aerosols in remote, rural, urban and industrial environments in Spain: Implications for air quality policy. *Atmospheric Chemistry and Physics*. 13 - 13, pp. 6185 - 6206. 2013. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84879907578&doi=10.5194%2facp-13-6185-2013&partnerID=40&md5=91461df948c8e5fb0a691044b9331c44>>.
Type of production: Scientific paper **Format:** Journal
- 148** J. Meier; I. Tegen; I. Mattis; R. Wolke; L. Alados Arboledas; A. Apituley; D. Balis; F. Barnaba; A. Chaikovsky; M. Sicard; G. Pappalardo; A. Pietruczuk; D. Stoyanov; F. Ravetta; V. Rizi. A regional model of European aerosol transport: Evaluation with sun photometer, lidar and air quality data. *Atmospheric Environment*. 47, pp. 519 - 532. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84155172893&doi=10.1016%2fj.atmosenv.2011.09.029&partnerID=40&md5=b4a48a30a75d446eb723db3308c8>>.
Type of production: Scientific paper **Format:** Journal
- 149** H. Lyamani; J. Fernández-Gálvez; D. Pérez-Ramírez; A. Valenzuela; M. Antón; I. Alados; G. Titos; F.J. Olmo; L. Alados-Arboledas. Aerosol properties over two urban sites in South Spain during an extended stagnation episode in winter season. *Atmospheric Environment*. 62, pp. 424 - 432. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84866488688&doi=10.1016%2fj.atmosenv.2012.08.050&partnerID=40&md5=55c3c5423c7e292ddc9751b34286e>>.
Type of production: Scientific paper **Format:** Journal
- 150** A. Valenzuela; F.J. Olmo; H. Lyamani; M. Antón; A. Quirantes; L. Alados-Arboledas. Aerosol radiative forcing during African desert dust events (2005-2010) over Southeastern Spain. *Atmospheric Chemistry and Physics*. 12 - 21, pp. 10331 - 10351. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84868677253&doi=10.5194%2facp-12-10331-2012&partnerID=40&md5=df020242cd57be6f89c520778c6dfb95>>.
Type of production: Scientific paper **Format:** Journal
- 151** A.I. Calvo; V. Pont; F.J. Olmo; A. Castro; L. Alados-Arboledas; A.M. Vicente; M. Fernández-Raga; R. Fraile. Air masses and weather types: A useful tool for characterizing precipitation chemistry and wet deposition. *Aerosol and Air Quality Research*. 12 - 5, pp. 856 - 878. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84866543151&doi=10.4209%2faaqr.2012.03.0068&partnerID=40&md5=2576d560542bd200b66db8f43ea28c92>>.
Type of production: Scientific paper **Format:** Journal
- 152** A. Valenzuela; F.J. Olmo; H. Lyamani; M. Antón; A. Quirantes; L. Alados-Arboledas. 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*. 104-105, pp. 292 - 301. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84655176771&doi=10.1016%2fj.atmosres.2011.11.005&partnerID=40&md5=0163ec220c6f031fb2c152424d5073>>.
Type of production: Scientific paper **Format:** Journal
- 153** M.J. Granados-Munoz; F. Navas-Guzmán; J.A. Bravo-Aranda; J.L. Guerrero-Rascado; H. Lyamani; J. Fernández-Gálvez; L. Alados-Arboledas. Automatic determination of the planetary boundary layer height using lidar: One-year analysis over southeastern Spain. *Journal of Geophysical Research Atmospheres*. 117 - 17, 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84867007021&doi=10.1029%2f2012JD017524&partnerID=40&md5=f201a5c95c4d358de4531d70ecd8c187>>.
Type of production: Scientific paper **Format:** Journal
- 154** R. Román; M. Antón; A. Cazorla; A. De Miguel; F.J. Olmo; J. Bilbao; L. Alados-Arboledas. Calibration of an all-sky camera for obtaining sky radiance at three wavelengths. *Atmospheric Measurement Techniques*. 5 - 8, pp. 2013 - 2024. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84865496062&doi=10.5194%2famt-5-2013-2012&partnerID=40&md5=86eb442f803bf3fd7eb184c861358ddb>>.
Type of production: Scientific paper **Format:** Journal



- 155** A. Valenzuela; F.J. Olmo; H. Lyamani; M. Antón; A. Quirantes; L. Alados-Arboledas. Classification of aerosol radiative properties during African desert dust intrusions over southeastern Spain by sector origins and cluster analysis. *Journal of Geophysical Research Atmospheres*. 117 - 6, 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84859467886&doi=10.1029%2f2011JD016885&partnerID=40&md5=5497415ec89170d6002213e58ecf0d34>>.
Type of production: Scientific paper **Format:** Journal
- 156** D. Pérez-Ramírez; H. Lyamani; F.J. Olmo; D.N. Whiteman; F. Navas-Guzmán; L. Alados-Arboledas. Cloud screening and quality control algorithm for star photometer data: Assessment with lidar measurements and with all-sky images. *Atmospheric Measurement Techniques*. 5 - 7, pp. 1585 - 1599. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84867843006&doi=10.5194%2famt-5-1585-2012&partnerID=40&md5=d04680b6d30adb41f97f65782976d3b6>>.
Type of production: Scientific paper **Format:** Journal
- 157** D. Pérez-Ramírez; H. Lyamani; F.J. Olmo; D.N. Whiteman; L. Alados-Arboledas. Columnar aerosol properties from sun-and-star photometry: Statistical comparisons and day-to-night dynamic. *Atmospheric Chemistry and Physics*. 12 - 20, pp. 9719 - 9738. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84868035465&doi=10.5194%2facp-12-9719-2012&partnerID=40&md5=5960cab15d41cc9388697de9441ba2ac>>.
Type of production: Scientific paper **Format:** Journal
- 158** M. Antón; M. Sorribas; Y. Bennouna; J.M. Vilaplana; V.E. Cachorro; J. Grbner; L. Alados-Arboledas. Effects of an extreme desert dust event on the spectral ultraviolet irradiance at El Arenosillo (Spain). *Journal of Geophysical Research Atmospheres*. 117 - 3, 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84857077853&doi=10.1029%2f2011JD016645&partnerID=40&md5=22e873eb60cf46df18eb714de9168938>>.
Type of production: Scientific paper **Format:** Journal
- 159** D. Pérez-Ramírez; H. Lyamani; F.J. Olmo; D.N. Whiteman; F. Navas-Guzmán; L. Alados-Arboledas. Erratum: Cloud screening and quality control algorithm for star photometer data: Assessment with lidar measurements and with all-sky images (*Atmospheric Measurement Techniques* (2012) 5 (1585-1599)). *Atmospheric Measurement Techniques*. 5 - 9, pp. 2307 - 2308. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84867499611&doi=10.5194%2famt-5-2307-2012&partnerID=40&md5=d344a46b511e19f7d63cb2f2aa683a2d>>.
Type of production: Scientific paper **Format:** Journal
- 160** I. Alados; I. Foyo-Moreno; L. Alados-Arboledas. Estimation of downwelling longwave irradiance under all-sky conditions. *International Journal of Climatology*. 32 - 5, pp. 781 - 793. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84859578685&doi=10.1002%2fjoc.2307&partnerID=40&md5=119e79e15f6fc9eab951673f027c0984>>.
Type of production: Scientific paper **Format:** Journal
- 161** M. Antón; L. Alados-Arboledas; J.L. Guerrero-Rascado; M.J. Costa; J. C Chiu; F.J. Olmo. Experimental and modeled UV erythemal irradiance under overcast conditions: The role of cloud optical depth. *Atmospheric Chemistry and Physics*. 12 - 23, pp. 11723 - 11732. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84870814334&doi=10.5194%2facp-12-11723-2012&partnerID=40&md5=f5b1f8663f1744eb70ce4815be82df04>>.
Type of production: Scientific paper **Format:** Journal
- 162** M. Antón; A.A. Piedehierro; L. Alados-Arboledas; E. Wolfran; F.J. Olmo. Extreme ultraviolet index due to broken clouds at a midlatitude site, Granada (southeastern Spain). *Atmospheric Research*. 118, pp. 10 - 14. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84862650732&doi=10.1016%2fj.atmosres.2012.06.007&partnerID=40&md5=f9dc460080fa3be8b667731d9908c1>>.
Type of production: Scientific paper **Format:** Journal



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M. Antón; A. Valenzuela; A. Cazorla; J.E. Gil; J. Fernández-Gálvez; H. Lyamani; I. Foyo-Moreno; F.J. Olmo; L. Alados-Arboledas. Global and diffuse shortwave irradiance during a strong desert dust episode at Granada (Spain). *Atmospheric Research*. 118, pp. 232 - 239. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84864417922&doi=10.1016%2fj.atmosres.2012.07.007&partnerID=40&md5=41580207997f69f984c640c1f38c597>>

Type of production: Scientific paper

Format: Journal

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M. Antón; A. Valenzuela; R. Romn; H. Lyamani; N. Krotkov; A. Arola; F.J. Olmo; L. Alados-Arboledas. Influence of desert dust intrusions on ground-based and satellite-derived ultraviolet irradiance in southeastern Spain. *Journal of Geophysical Research Atmospheres*. 117 - 19, 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84867488900&doi=10.1029%2f2012JD018056&partnerID=40&md5=1225da9ef6264db1924677a96fe45349>>

Type of production: Scientific paper

Format: Journal

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A. Quirantes; F.J. Olmo; H. Lyamani; A. Valenzuela; L. Alados-Arboledas. 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 and Radiative Transfer*. 113 - 18, pp. 2593 - 2600. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84868206161&doi=10.1016%2fj.jqsrt.2012.08.010&partnerID=40&md5=465dbd103e358beb5ceea431b429cae2>>

Type of production: Scientific paper

Format: Journal

166

M. Sicard; J.L. Guerrero-Rascado; F. Navas-Guzmán; J. Preißler; F. Molero; S. To?; J.A. Bravo-Aranda; A. Comerón; F. Rocadenbosch; F. Wagner; M. Pujadas; L. Alados-Arboledas. Monitoring of the Eyjafjallajökull volcanic aerosol plume over the Iberian Peninsula by means of four EARLINET lidar stations. *Atmospheric Chemistry and Physics*. 12 - 6, pp. 3115 - 3130. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84859261079&doi=10.5194%2facp-12-3115-2012&partnerID=40&md5=483740fb9cee428d40eed63e88aa89e1>>

Type of production: Scientific paper

Format: Journal

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G. Titos; I. Foyo-Moreno; H. Lyamani; X. Querol; A. Alastuey; L. Alados-Arboledas. 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 Atmospheres*. 117 - 4, 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84857724006&doi=10.1029%2f2011JD016671&partnerID=40&md5=5ad4ae552f7302b43beb3017d61a871e>>

Type of production: Scientific paper

Format: Journal

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D. Pérez-Ramírez; F. Navas-Guzmán; H. Lyamani; J. Fernández-Gálvez; F.J. Olmo; L. Alados-Arboledas. Retrievals of precipitable water vapor using star photometry: Assessment with Raman lidar and link to sun photometry. *Journal of Geophysical Research Atmospheres*. 117 - 5, 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84858017099&doi=10.1029%2f2011JD016450&partnerID=40&md5=79e20884fee5f374c41f070bb922d2e0>>

Type of production: Scientific paper

Format: Journal

169

P. Sawamura; J.P. Vernier; J.E. Barnes; T.A. Berkoff; E.J. Welton; L. Alados-Arboledas; F. Navas-Guzmán; G. Pappalardo; L. Mona; F. Madonna; D. Lange; M. Sicard; S. Godin-Beekmann; G. Payen; Z. Wang; S. Hu; S.N. Tripathi; C. Cordoba-Jabonero; R.M. Hoff. Stratospheric AOD after the 2011 eruption of Nabro volcano measured by lidars over the Northern Hemisphere. *Environmental Research Letters*. 7 - 3, 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84866324238&doi=10.1088%2f1748-9326%2f7%2f3%2f034013&partnerID=40&md5=d4d2a754c65e8f6e6c2f9bc>>

Type of production: Scientific paper

Format: Journal

170

F. Molero; M. Sicard; F. Navas-Guzmán; J. Preibler; A. Amodeo; V. Freudenthaler; A.J. Fernandez; S. Tomas; M.J. Granados; F. Wagner; A. Giunta; I. Mattis; M. Pujadas; A. Comerón; L. Alados-Arboledas; J.L. Guerrero-Rascado; G. D'Amico; D. Lange; J.A. Bravo; D. Kumar; G. Pappalardo; J. Giner; C. Muñoz; F. Rocadenbosch. Study on aerosol properties over Madrid (Spain) by multiple instrumentation



during SPALI10 lidar campaign [Estudio de las propiedades de los aerosoles sobre Madrid (España) mediante multiples instrumentos durante la campaña lidar SPALI10]. *Optica Pura y Aplicada*. 45 - 4, pp. 405 - 413. 2012. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84877654474&doi=10.7149%2fOPA.45.4.405&partnerID=40&md5=b38bcb8189576e717e4a7c8257bb9df3>>.

Type of production: Scientific paper

Format: Journal

- 171** J.L. Guerrero-Rascado; J. Andrey; M. Sicard; F. Molero; A. Comerón; M. Pujadas; F. Rocadenbosch; R. Pedrós; O. Serrano-Vargas; M. Gil; F.J. Olmo; H. Lyamani; F. Navas-Guzmán; L. Alados-Arboledas. 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 Atmospheres*. 116 - 2, 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79551629455&doi=10.1029%2f2010JD014510&partnerID=40&md5=064c69f0d36e28d1a26e22b987407a00>>.

Type of production: Scientific paper

Format: Journal

- 172** A. Valenzuela; F.J. Olmo; H. Lyamani; A. Quirantes; L. Alados-Arboledas. Aerosol radiative properties retrieved during saharan dust events in southeastern Spain from 2005 to 2008. *Optica Pura y Aplicada*. 44 - 4, pp. 661 - 664. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84655163261&partnerID=40&md5=b233d3874a1097dcdc98c580139e3005>>.

Type of production: Scientific paper

Format: Journal

- 173** A. Quirantes; F.J. Olmo; A. Valenzuela; H. Lyamani; L. Alados-Arboledas. Alfa: A Database for light scattering simulations with atmospheric aerosol applications. *Optica Pura y Aplicada*. 44 - 4, pp. 641 - 645. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84857379989&partnerID=40&md5=833a90b60ccbefe6d91d992bffe9dc4d>>.

Type of production: Scientific paper

Format: Journal

- 174** N. Mladenov; L. Alados-Arboledas; F.J. Olmo; H. Lyamani; A. Delgado; A. Molina; I. Reche. Applications of optical spectroscopy and stable isotope analyses to organic aerosol source discrimination in an urban area. *Atmospheric Environment*. 45 - 11, pp. 1960 - 1969. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79952251320&doi=10.1016%2fj.atmosenv.2011.01.029&partnerID=40&md5=45886572a638c92bff88b0d0899ba>>.

Type of production: Scientific paper

Format: Journal

- 175** H. Lyamani; F.J. Olmo; I. Foyo; L. Alados-Arboledas. Black carbon aerosols over an urban area in south-eastern Spain: Changes detected after the 2008 economic crisis. *Atmospheric Environment*. 45 - 35, pp. 6423 - 6432. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-80052961892&doi=10.1016%2fj.atmosenv.2011.07.063&partnerID=40&md5=b2c64fdac074d5e407d0ae20d0cd9>>.

Type of production: Scientific paper

Format: Journal

- 176** F. Navas-Guzman; J.L. Guerrero-Rascado; J.A. Bravo-Aranda; L. Alados-Arboledas. Calibration of 1064 nm-backscatter profiles with a multi wavelength Raman Lidar. *Romanian Reports of Physics*. 56 - 3-4, pp. 460 - 466. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79957640798&partnerID=40&md5=17cc537ac1cfd63c717b7e56874d7a8a>>.

Type of production: Scientific paper

Format: Journal

- 177** M. Antón; J.E. Gil; J. Fernández-Gálvez; H. Lyamani; A. Valenzuela; I. Foyo-Moreno; F.J. Olmo; L. Alados-Arboledas. Evaluation of the aerosol forcing efficiency in the UV erythral range at Granada, Spain. *Journal of Geophysical Research Atmospheres*. 116 - 20, 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-80455150036&doi=10.1029%2f2011JD016112&partnerID=40&md5=bff35a471c93d47ec6f15eaf41b5bc62>>.

Type of production: Scientific paper

Format: Journal



- 178** J.L. Guerrero-Rascado; D. Müller; F. Navas-Guzmán; D. Pérezramírez; L. Alados-Arboledas. First results of aerosol microphysical properties by 3+2 raman lidar at earlinet granada station. *Romanian Reports of Physics*. 56 - 3-4, pp. 467 - 475. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79957645207&partnerID=40&md5=ae63998e48c4e3c0f58d1e7fe9e4e0c4>>.
Type of production: Scientific paper **Format:** Journal
- 179** D. Pérez-Ramírez; H. Lyamani; F.J. Olmo; L. Alados-Arboledas. Improvements in star photometry for aerosol characterizations. *Journal of Aerosol Science*. 42 - 10, pp. 737 - 745. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79960973472&doi=10.1016%2fj.jaerosci.2011.06.010&partnerID=40&md5=ed2909741fa8ea087cf89934af8e7f1b>>.
Type of production: Scientific paper **Format:** Journal
- 180** M. Antán; J.E. Gil; A. Cazorla; J. Fernández-Gálvez; J.M. Vilaplana; F.J. Olmo; L. Alados-Arboledas. Influence of the calibration on experimental UV index at a midlatitude site, Granada (Spain). *Atmospheric Measurement Techniques*. 4 - 3, pp. 499 - 507. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79960583058&doi=10.5194%2fam4-499-2011&partnerID=40&md5=d233b05b09081a45450a6a95d1557dc7>>.
Type of production: Scientific paper **Format:** Journal
- 181** M. Antón; D. Bortoli; P.S. Kulkarni; M.J. Costa; A.F. Domingues; D. Loyola; A.M. Silva; L. Alados-Arboledas. Long-term trends of total ozone column over the Iberian Peninsula for the period 1979-2008. *Atmospheric Environment*. 45 - 35, pp. 6283 - 6290. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-80052968088&doi=10.1016%2fj.atmosenv.2011.08.058&partnerID=40&md5=2943bb246d80be266e789c9b30e1>>.
Type of production: Scientific paper **Format:** Journal
- 182** F. Navas-Guzmán; J.L. Guerrero-Rascado; J.A. Bravo-Aranda; L. Alados-Arboledas. On the use cirrus clouds for ground-based elastic lidar calibration [Calibrado de un lidar elástico operado desde tierra con nubes tipo cirro]. *Optica Pura y Aplicada*. 44 - 1, pp. 49 - 53. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79955058870&partnerID=40&md5=56f452f0bfc8a1c8017f61122a131ab2>>.
Type of production: Scientific paper **Format:** Journal
- 183** L. Alados-Arboledas; D. Müller; J.L. Guerrero-Rascado; F. Navas-Guzmán; D. Pérez-Ramírez; F.J. Olmo. Optical and microphysical properties of fresh biomass burning aerosol retrieved by Raman lidar, and star-and sun-photometry. *Geophysical Research Letters*. 38 - 1, 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-78751491728&doi=10.1029%2f2010GL045999&partnerID=40&md5=ad2f03c1ee77d5974696df127974ca21>>.
Type of production: Scientific paper **Format:** Journal
- 184** J.L. Guerrero-Rascado; F. Navas-Guzmán; J.A. Díaz; J.A. Bravo-Aranda; L. Alados-Arboledas. Quality assurance at the EARLINET Granada station: Characterization of the optical subsystem for a multichannel Raman lidar [Control de calidad en la estación de EARLINET en Granada: caracterización del subsistema óptico de un lidar Raman multicanal]. *Optica Pura y Aplicada*. 44 - 1, pp. 19 - 23. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79955056931&partnerID=40&md5=c816d81e2769bf27e4404709c4a84f82>>.
Type of production: Scientific paper **Format:** Journal
- 185** F. Navas-Guzmán; J.L. Guerrero-Rascado; L. Alados-Arboledas. Retrieval of the lidar overlap function using Raman signals [Obtención de la función de solapamiento lidar a partir de señales Raman]. *Optica Pura y Aplicada*. 44 - 1, pp. 71 - 75. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79953708739&partnerID=40&md5=743f7f922fea5a31b2e93c58d95a7971>>.
Type of production: Scientific paper **Format:** Journal



- 186** M. Sicard; M. Pujadas; L. Alados-Arboledas; R. Pedrós; J.P. Díaz; C. Córdoba-Jabonero; A. Requena; A. Comerón; F. Rocadenbosch; F. Wagner; J. Rodrigues; J.M. Moreno. SPALINET: The Spanish and Portuguese aerosol lidar network [SPALINET: La red hispano-portuguesa de lidares de aerosoles]. *Optica Pura y Aplicada*. 44 - 1, pp. 1 - 5. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79955066976&partnerID=40&md5=9b3dfff3824f7dfb955ae7e68b18bfb1>>.
Type of production: Scientific paper **Format:** Journal
- 187** A. Quirantes; F.J. Olmo; H. Lyamani; A. Valenzuela; L. Alados-Arboledas. Separation of fine and coarse aerosol contributions to the total aerosol light scattering: An aeronet assessment. *AAPP Atti della Accademia Peloritana dei Pericolanti, Classe di Scienze Fisiche, Matematiche e Naturali*. 89 - SUPPL. 1, 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84859192862&doi=10.1478%2fC1V89S1P078&partnerID=40&md5=5186733b4de39f76039f944b18b8e5d>>.
Type of production: Scientific paper **Format:** Journal
- 188** M. Antón; J.E. Gil; A. Cazorla; J. Fernández-Gálvez; I. Foyo-Moreno; F.J. Olmo; L. Alados-Arboledas. Short-term variability of experimental ultraviolet and total solar irradiance in Southeastern Spain. *Atmospheric Environment*. 45 - 28, pp. 4815 - 4821. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79960568041&doi=10.1016%2fj.atmosenv.2011.06.020&partnerID=40&md5=85225206be06b994e572739f70f35>>.
Type of production: Scientific paper **Format:** Journal
- 189** C. Córdoba-Jabonero; M. Sorribas; J.L. Guerrero-Rascado; J.A. Adame; Y. Hernández; H. Lyamani; V. Cachorro; M. Gil; L. Alados-Arboledas; E. Cuevas; B. De La Morena. 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*. 11 - 7, pp. 3067 - 3091. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79953718088&doi=10.5194%2facp-11-3067-2011&partnerID=40&md5=be50b36c92c9f2b2f761719d0b30419f>>.
Type of production: Scientific paper **Format:** Journal
- 190** M. Antón; M. Kroon; M. López; J.M. Vilaplana; M. Bañón; R. Van Der A; J.P. Veefkind; P. Stammes; L. Alados-Arboledas. Total ozone column derived from GOME and SCIAMACHY using KNMI retrieval algorithms: Validation against Brewer measurements at the Iberian Peninsula. *Journal of Geophysical Research Atmospheres*. 116 - 22, 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-81755178962&doi=10.1029%2f2011JD016436&partnerID=40&md5=a001d4f90d1816465ad207130565bd9c>>.
Type of production: Scientific paper **Format:** Journal
- 191** M. Antón; D. Loyola; C. Clerbaux; M. López; J.M. Vilaplana; M. Bañón; J. Hadji-Lazaro; P. Valks; N. Hao; W. Zimmer; P.F. Coheur; D. Hurtmans; L. Alados-Arboledas. 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*. 115 - 6, pp. 1380 - 1386. 2011. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79953228017&doi=10.1016%2fj.rse.2011.01.018&partnerID=40&md5=505063ce36166e8c43a6dd84da6db6ba>>.
Type of production: Scientific paper **Format:** Journal
- 192** A.I. Calvo; F.J. Olmo; H. Lyamani; L. Alados-Arboledas; A. Castro; M. Fernández-Raga; R. Fraile. Chemical composition of wet precipitation at the background EMEP station in Víznar (Granada, Spain) (2002-2006). *Atmospheric Research*. 96 - 2-3, pp. 408 - 420. 2010. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-77952319832&doi=10.1016%2fj.atmosres.2010.01.013&partnerID=40&md5=b6e7267198bea3f7544e6341a24d1>>.
Type of production: Scientific paper **Format:** Journal
- 193** G. Pappalardo; U. Wandinger; L. Mona; A. Hiebsch; I. Mattis; A. Amodeo; A. Ansmann; P. Seifert; H. Linné; A. Apituley; L.A. Arboledas; D. Balis; A. Chaikovsky; G. D'Amico; F. De Tomasi; V. Freudenthaler; E. Giannakaki; A. Giunta; I. Grigorov; M. Iarlori; F. Madonna; R.-E. Mamouri; L. Nasti; A. Papayannis; A. Pietruczuk; M. Pujadas; V. Rizzi; F. Rocadenbosch; F. Russo; F. Schnell; N. Spinelli; X. Wang; M. Wiegner. EARLINET correlative measurements for CALIPSO: First intercomparison results. *Journal of Geophysical*



Research Atmospheres. 115 - 4, 2010. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84899619736&doi=10.1029%2f2009JD012147&partnerID=40&md5=48ce9e9062d121902bcacb6b281cd90e>>.

Type of production: Scientific paper

Format: Journal

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Type of production: Scientific paper

Format: Journal

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Type of production: Scientific paper

Format: Journal

- 196** N. Mladenov; I. Reche; F.J. Olmo; H. Lyamani; L. Alados-Arboledas. Relationships between spectroscopic properties of high-altitude organic aerosols and Sun photometry from ground-based remote sensing. *Journal of Geophysical Research: Biogeosciences*. 115 - G1, 2010. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904177412&doi=10.1029%2f2009JG000991&partnerID=40&md5=63ba73c48b5ed353e5f7bcb6d9488050>>.

Type of production: Scientific paper

Format: Journal

- 197** M. Sicard; F. Molero; J.L. Guerrero-Rascado; R. Pedros; F.J. Exposito; C. Cordoba-Jabonero; J.M. Bolarin; A. Comeron; F. Rocadenbosch; M. Pujadas; L. Alados-Arboledas; J.A. Martinez-Lozano; J.P. Diaz; M. Gil; A. Requena; F. Navas-Guzman; J.M. Moreno. Aerosol lidar intercomparison in the framework of SPALINETThe Spanish lidar network: Methodology and results. *IEEE Transactions on Geoscience and Remote Sensing*. 47 - 10, pp. 3547 - 3559. 2009. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-70350618613&doi=10.1109%2fTGRS.2009.2021525&partnerID=40&md5=70795cb227bfb5601de760e38334b91>>.

Type of production: Scientific paper

Format: Journal

- 198** D. Müller; B. Heinold; M. Tesche; I. Tegen; D. Althausen; L.A. Arboledas; V. Amiridis; A. Amodeo; A. Ansmann; D. Balis; A. Comeron; G. D'amico; E. Gerasopoulos; J.L. Guerrero-rascado; V. Freudenthaler; E. Giannakaki; B. Heese; M. Iarlori; P. Knippertz; R.E. Mamouri; L. Mona; A. Papayannis; G. Pappalardo; R.-M. Perrone; G. Pisani; V. Rizi; M. Sicard; N. Spinelli; A. Tafuro; M. Wiegner. 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*. 61 - 1, pp. 325 - 339. 2009. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-58949085217&doi=10.1111%2fj.1600-0889.2008.00400.x&partnerID=40&md5=9caf254b5454f19033bd18f4fda1c>>.

Type of production: Scientific paper

Format: Journal

- 199** J.L. Guerrero-Rascado; F.J. Olmo; I. Avilés-Rodríguez; F. Navas-Guzmán; D. Pérez-Ramírez; H. Lyamani; L.A. Arboledas. 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*. 9 - 21, pp. 8453 - 8469. 2009. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-70450269228&doi=10.5194%2facp-9-8453-2009&partnerID=40&md5=6cfa559b1567f846b2e94c352084e247>>.

Type of production: Scientific paper

Format: Journal

- 200** P. Serrano-Ortiz; F. Domingo; A. Cazorla; A. Were; S. Cuezva; L. Villagarcía; L. Alados-Arboledas; A.S. Kowalski. Interannual CO₂ exchange of a sparse Mediterranean shrubland on a carbonaceous substrate. *Journal of Geophysical Research: Biogeosciences*. 114 - 4, 2009. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-76749126835&doi=10.1029%2f2009JG000983&partnerID=40&md5=e3880cd5b384c4b8e0038e53d5e25725>>.

Type of production: Scientific paper

Format: Journal



- 201** A. Cazorla; J.E. Shields; M.E. Karr; F.J. Olmo; A. Burden; L. Alados-Arboledas. Technical note: Determination of aerosol optical properties by a calibrated sky imager. *Atmospheric Chemistry and Physics*. 9 - 17, pp. 6417 - 6427. 2009. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-75249098361&doi=10.5194%2facp-9-6417-2009&partnerID=40&md5=293b26401a99852af9d70d14d51a4e16>>.
Type of production: Scientific paper **Format:** Journal
- 202** L. Alados-Arboledas; A. Alcántara; F.J. Olmo; J.A. Martínez-Lozano; V. Estellés; V. Cachorro; A.M. Silva; H. Horvath; M. Gangl; A. Díaz; M. Pujadas; J. Lorente; A. Labajo; M. Sorribas; G. Pavese. Aerosol columnar properties retrieved from CIMEL radiometers during VELETA 2002. *Atmospheric Environment*. 42 - 11, pp. 2654 - 2667. 2008. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-41549090870&doi=10.1016%2fj.atmosenv.2007.10.006&partnerID=40&md5=f643087dc4febe833c5343ff8fa3532>>.
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Type of production: Scientific paper **Format:** Journal
- 204** Y. Sola; J. Lorente; E. Campmany; X. De Cabo; J. Bech; A. Redaño; J.A. Martínez-Lozano; M.P. Utrillas; L. Alados-Arboledas; F.J. Olmo; J.P. Díaz; F.J. Expósito; V. Cachorro; M. Sorribas; A. Labajo; J.M. Vilaplana; A.M. Silva; J. Badosa. 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*. 113 - 23, 2008. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-59749091022&doi=10.1029%2f2007JD009742&partnerID=40&md5=b2a8a8f64483a630f0f580769c65b8b5>>.
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Type of production: Scientific paper **Format:** Journal
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Type of production: Scientific paper **Format:** Journal
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- 248** I. Alados; F.J. Olmo; I. Foyo-Moreno; L. Alados-Arboledas. Estimation of photosynthetically active radiation under cloudy conditions. *Agricultural and Forest Meteorology*. 102 - 1, pp. 39 - 50. 2000. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0034724967&doi=10.1016%2fS0168-1923%2800%2900091-5&partnerID=40&md5=f95851f2dbd16ef3c84aadbe>>.
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Type of production: Scientific paper

Format: Journal

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F.J. Olmo; J. Tovar; L. Alados-Arboledas; O. Okulov; H.O. Ohvril. A comparison of ground level solar radiative effects of recent volcanic eruptions. *Atmospheric Environment*. 33 - 28, pp. 4589 - 4596. 1999. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0032834391&doi=10.1016%2fS1352-2310%2899%2900271-X&partnerID=40&md5=d7957a6c65f44b071be5365f8c2ea226>>.

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Type of production: Scientific paper

Format: Journal

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C. Sanchez-Oliveros; F.J. Olmo; L. Alados-Arboledas. Aerosol size distribution derived from combined ground-based measurements of scattering and extinction. *Journal of Aerosol Science*. 30 - Suppl. 1, pp. S885 - S886. 1999. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0033189055&doi=10.1016%2fS0021-8502%2899%2980453-4&partnerID=40&md5=e926b125c0a30e2266ff4fc52>>.

Type of production: Scientific paper

Format: Journal

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M. Pérez; L. Alados-Arboledas. Effects of natural ventilation and solar radiation on the performance of pyrgeometers. *Journal of Atmospheric and Oceanic Technology*. 16 - 1, pp. 174 - 180. 1999. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0344339144&doi=10.1175%2f1520-0426%281999%29016%3c0174%3aEONVAS%3e2.0.CO%3b2&partnerID=40&md5=fb6f503f72fdc38ebe1d22bb3f052eea>>.

Type of production: Scientific paper

Format: Journal

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Type of production: Scientific paper

Format: Journal

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Type of production: Scientific paper

Format: Journal

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Type of production: Scientific paper

Format: Journal



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Format: Journal

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Format: Journal

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Type of production: Scientific paper

Format: Journal

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I. Alados; I. Foyo-Moreno; L. Alados-Arboledas. Photosynthetically active radiation: Measurements and modelling. *Agricultural and Forest Meteorology*. 78 - 1-2, pp. 121 - 131. 1996. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0029669375&doi=10.1016%2f0168-1923%2895%2902245-7&partnerID=40&md5=ab851b76683157f10440468e9>>

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Format: Journal

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Format: Journal

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Format: Journal

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F.J. OLMO; L. ALADOS?ARBOLEDAS. Pinatubo eruption effects on solar radiation at Almeria (36.83°N, 2.41°W). *Tellus B*. 47 - 5, pp. 602 - 606. 1995. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982710712&doi=10.1034%2fj.1600-0889.47.issue5.7.x&partnerID=40&md5=f0e999ae9c57e5bbf087e940293e>>

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Format: Journal

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Type of production: Scientific paper **Format:** Journal
- 277** Y. Castro-Díez; L. Alados-Arboledas; J.I. Jiménez. A model for climatological estimations of global, diffuse, and direct solar radiation on a horizontal surface. *Solar Energy*. 42 - 5, pp. 417 - 424. 1989. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0024944923&doi=10.1016%2f0038-092X%2889%2990060-1&partnerID=40&md5=899358e3d077dc2d8560032d88f61c54>>.
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- 278** L. Alados-Arboledas; J.I. Jimenez. Day-night differences in the effective emissivity from clear skies. *Boundary-Layer Meteorology*. 45 - 1-2, pp. 93 - 101. 1988. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0024258524&doi=10.1007%2fBF00120817&partnerID=40&md5=7abb01401bb6276269ecef2cfa818ecc>>.
Type of production: Scientific paper **Format:** Journal
- 279** J.I. Jiménez; L. Alados-Arboledas; Y. Castro-Díez; G. Ballester. On the estimation of long-wave radiation flux from clear skies. *Theoretical and Applied Climatology*. 38 - 1, pp. 37 - 42. 1987. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0023469262&doi=10.1007%2fBF00866251&partnerID=40&md5=44421215747e7719cfc530256c2cff08>>.
Type of production: Scientific paper **Format:** Journal
- 280** L. Alados-Arboledas; J.I. Jiménez; Y. Castro-Díez. Thermal radiation from cloudless skies in Granada. *Theoretical and Applied Climatology*. 37 - 1-2, pp. 84 - 89. 1986. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0022849533&doi=10.1007%2fBF00866107&partnerID=40&md5=795acf2c5c48cbfa2e596a3ae555182b>>.
Type of production: Scientific paper **Format:** Journal

Works submitted to national or international conferences

- 1** **Title of the work:** 4D distribution of the 2010 Eyjafjallajökull ash plume over Europe observed by the European Lidar network EARLINET
Name of the conference: EGU General Assembly 2011
Type of event: Conference
City of event: DEPARTAMENTO DE HISTORIA DE LA UNIVERSIDAD DE VIENA (AUSTRIA),
Date of event: 2011
Pappalardo, Gelsomina; LUCAS ALADOS ARBOLEDAS; FRANCISCO JESUS NAVAS GUZMAN; JUAN ANTONIO BRAVO ARANDA.
- 2** **Title of the work:** A NEW APPROACH TO IMPROVE THE NEAR-RANGE RESPONSE OF A LIDAR SYSTEM AT 1064 NM
Name of the conference: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOL (RECTA 2011) () (.2011.MADRID, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: MADRID, ESPAÑA,
Date of event: 2011
JUAN LUIS GUERRERO RASCADO; HASSAN LYAMANI; LUCAS ALADOS ARBOLEDAS; Bortoli, D.; Costa, M. J.; Silva, Am. "A NEW APPROACH TO IMPROVE THE NEAR-RANGE RESPONSE OF A LIDAR SYSTEM AT 1064 NM". En: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOL (RECTA 2011). pp. B7-1 - B7-6.



- 3** **Title of the work:** AEROSOL CHEMICAL AND OPTICAL PROPERTIES IN GRANADA: ANALYSIS OF THE AEROSOL MASS SCATTERING AND ABSORPTION EFFICIENCIES.
Name of the conference: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011) () (.2011.MADRID, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: MADRID, ESPAÑA,
Date of event: 2011
GLORIA TITOS VELA; INMACULADA FOYO MORENO; HASSAN LYAMANI; Querol, Xavier; Alastuey-, A.; LUCAS ALADOS ARBOLEDAS. "AEROSOL CHEMICAL AND OPTICAL PROPERTIES IN GRANADA: ANALYSIS OF THE AEROSOL MASS SCATTERING AND ABSORPTION EFFICIENCIES.". En: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011). pp. D6-1 - D6-6.
- 4** **Title of the work:** AEROSOL PROPERTIES DURING AN EXTENDED STAGNATION EPISODE AT TWO URBAN SITES IN SOUTH-EASTERN SPAIN
Name of the conference: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011) () (.2011.MADRID, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: MADRID, ESPAÑA,
Date of event: 2011
HASSAN LYAMANI; DANIEL PÉREZ RAMÍREZ; ANTONIO VALENZUELA GUTIERREZ; JESÚS FERNÁNDEZ GÁLVEZ; FRANCISCO JOSE OLMO REYES; INMACULADA ALADOS ARBOLEDAS; LUCAS ALADOS ARBOLEDAS. "AEROSOL PROPERTIES DURING AN EXTENDED STAGNATION EPISODE AT TWO URBAN SITES IN SOUTH-EASTERN SPAIN". En: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011). pp. D2-1 - D2-6.
- 5** **Title of the work:** AEROSOL RADIATIVE PROPERTIES DURING DESERT DUST EVENTS AT GRANADA (2005-2010) - AIR MASS CLASSIFICATION.
Name of the conference: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011) () (.2011.MADRID, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: MADRID, ESPAÑA,
Date of event: 2011
ANTONIO VALENZUELA GUTIERREZ; FRANCISCO JOSE OLMO REYES; HASSAN LYAMANI; MANUEL ANTON MARTÍNEZ; DANIEL PÉREZ RAMÍREZ; LUCAS ALADOS ARBOLEDAS; ARTURO GABRIEL QUIRANTES SIERRA. "AEROSOL RADIATIVE PROPERTIES DURING DESERT DUST EVENTS AT GRANADA (2005-2010) - AIR MASS CLASSIFICATION.". En: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011). pp. C1-1 - C1-6.
- 6** **Title of the work:** AEROSOL SIZE DISTRIBUTION FROM INVERSION OF SOLAR RADIANCES AND MEASURED AT GROUND-LEVEL DURING SPALI10 CAMPAIGN
Name of the conference: GLOBAL CONFERENCE ON GLOBAL WARMING 2011 () (.2011.LISBOA, PORTUGAL)
Type of event: Conference **Geographical area:** Non EU International
City of event: LISBOA, PORTUGAL,
Date of event: 2011
JESÚS FERNÁNDEZ GÁLVEZ; JUAN LUIS GUERRERO RASCADO; Molero-,Francisco; HASSAN LYAMANI; Revuelta-,Maria Aranzazu; FRANCISCO JESUS NAVAS GUZMAN; Sastre-,Mariano; JUAN ANTONIO BRAVO ARANDA; Fernández-,Alfonso Favier; MARÍA JOSÉ GRANADOS MUÑOZ; Gómez-Moreno,F. J.; FRANCISCO JOSE OLMO REYES; Pujadas-, Manuel; LUCAS ALADOS ARBOLEDAS. "AEROSOL SIZE DISTRIBUTION FROM INVERSION OF SOLAR RADIANCES AND MEASURED AT GROUND-LEVEL DURING SPALI10 CAMPAIGN". En: ABSTRACT BOOKLET OF THE GLOBAL CONFERENCE ON GLOBAL WARMING 2011. pp. 33 - 33.

- 7** **Title of the work:** AEROSOL SIZE DISTRIBUTION STUDY BY AIRBORNE AND GROUND-LEVEL IN-SITU MEASUREMENTS AND REMOTE SENSING DURING EARLINET LIDAR INTERCOMPARISON CAMPAIGN: SPALI10
Name of the conference: EUROPEAN AEROSOL CONFERENCE 2011 () (.2011.MANCHESTER, INGLATERRA)
Type of event: Conference **Geographical area:** Non EU International
City of event: MANCHESTER, INGLATERRA,
Date of event: 2011
Molero-,Francisco; Andrey-,Javier; Preissler-,Jana; FRANCISCO JESUS NAVAS GUZMAN; Giunta-,Aldo; Sicard-,Michaël; Fernández-,Alfonso Favier; Parrondo-,M.; Wagner-, F.; MARÍA JOSÉ GRANADOS MUÑOZ; D'Amico-,Giuseppe; Tomas-,Sergio; Pujadas-, Manuel; CARMEN CÓRDOBA JABONERO; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS; Amodeo-,Aldo; Comeron-, Adolfo; JUAN ANTONIO BRAVO ARANDA; Pappalardo-,Gelsomina; Kumar-,Dhiraj; Mattis-,Ina; Freudenthaler-,Volker; Lange-,Diego; Muñoz-,C.; Rocadenbosch-,F."AEROSOL SIZE DISTRIBUTION STUDY BY AIRBORNE AND GROUND-LEVEL IN-SITU MEASUREMENTS AND REMOTE SENSING DURING EARLINET LIDAR INTERCOMPARISON CAMPAIGN: SPALI10". En: EUROPEAN AEROSOL CONFERENCE HANDBOOK. pp. 8P144 - 8P144.
- 8** **Title of the work:** ATMOSPHERIC AEROSOL CHARACTERIZATION BY DUAL LIDAR DEPOLARIZATION
Name of the conference: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011) () (.2011.MADRID, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: MADRID, ESPAÑA,
Date of event: 2011
JUAN ANTONIO BRAVO ARANDA; FRANCISCO JESUS NAVAS GUZMAN; MARÍA JOSÉ GRANADOS MUÑOZ; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS. "ATMOSPHERIC AEROSOL CHARACTERIZATION BY DUAL LIDAR DEPOLARIZATION". En: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011). pp. H2-1 - H2-6.
- 9** **Title of the work:** Aerosol properties during long-range transport of African dust air masses over Granada (Spain)
Name of the conference: European Aerosol Conference 2011
Type of event: Conference
City of event: MANCHESTER,
Date of event: 2011
ANTONIO VALENZUELA GUTIERREZ; FRANCISCO JOSE OLMO REYES; HASSAN LYAMANI; ARTURO GABRIEL QUIRANTES SIERRA; DANIEL PÉREZ RAMÍREZ; LUCAS ALADOS ARBOLEDAS.
- 10** **Title of the work:** EVALUATION OF THE AEROSOL FORCING EFFICIENCY IN THE UV ERYTHEMAL RANGE AT GRANADA (SPAIN)
Name of the conference: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011) () (.2011.MADRID, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: MADRID, ESPAÑA,
Date of event: 2011
MANUEL ANTON MARTÍNEZ; JESÚS FERNÁNDEZ GÁLVEZ; HASSAN LYAMANI; ANTONIO VALENZUELA GUTIERREZ; INMACULADA FOYO MORENO; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS; Gil-, J. "EVALUATION OF THE AEROSOL FORCING EFFICIENCY IN THE UV ERYTHEMAL RANGE AT GRANADA (SPAIN)". En: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011). pp. M4-1 - M4-6.



- 11 Title of the work:** IMPROVEMENT OF THE CAPABILITIES OF LIDAR SYSTEMS AT 1064 NM
Name of the conference: APMG 2011 () (.2011.SETÚBAL, PORTUGAL)
Type of event: Conference **Geographical area:** Non EU International
City of event: SETÚBAL, PORTUGAL,
Date of event: 2011
JUAN LUIS GUERRERO RASCADO; Costa-,M. J.; Bortoli-,D.; Silva-,Ana María; HASSAN LYAMANI; LUCAS ALADOS ARBOLEDAS. "IMPROVEMENT OF THE CAPABILITIES OF LIDAR SYSTEMS AT 1064 NM". En: BOOK OF ABSTRACTS OF APMG2011. pp. - - -.
- 12 Title of the work:** INTERANNUAL VARIABILITY OF LONG TIME SERIES OF DNI AND GHI AT PSA, SPAIN
Name of the conference: SolarPACES
Type of event: Conference
City of event: GRANADA SPAIN,
Date of event: 2011
Pozo-vázquez, David; Wilbert, Stephan; Gueymard, Chris A.; LUCAS ALADOS ARBOLEDAS; FRANCISCO JAVIER SANTOS ALAMILLOS; MARÍA JOSÉ GRANADOS MUÑOZ.
- 13 Title of the work:** MULTI-INSTRUMENTAL CHARACTERIZATION OF THE MIXING OF EYJAFJALLAJÖKULL VOLCANIC AEROSOLS AND BOUNDARY LAYER AEROSOLS AT GRANADA, SPAIN
Name of the conference: EUROPEAN AEROSOL CONFERENCE 2011 () (.2011.MANCHESTER, INGLATERRA)
Type of event: Conference **Geographical area:** Non EU International
City of event: MANCHESTER, INGLATERRA,
Date of event: 2011
LUCAS ALADOS ARBOLEDAS; FRANCISCO JESUS NAVAS GUZMAN; JUAN ANTONIO BRAVO ARANDA; HASSAN LYAMANI; DANIEL PÉREZ RAMÍREZ; JUAN LUIS GUERRERO RASCADO; INMACULADA FOYO MORENO; INMACULADA ALADOS ARBOLEDAS; MARÍA JOSÉ GRANADOS MUÑOZ; GLORIA TITOS VELA; JESÚS FERNÁNDEZ GÁLVEZ; ANTONIO VALENZUELA GUTIERREZ; MANUEL ANTON MARTÍNEZ; ARTURO GABRIEL QUIRANTES SIERRA; XAVIER QUEROL CARCELLER; Alastuey-Urós, Andrés; FRANCISCO JOSE OLMO REYES. "MULTI-INSTRUMENTAL CHARACTERIZATION OF THE MIXING OF EYJAFJALLAJÖKULL VOLCANIC AEROSOLS AND BOUNDARY LAYER AEROSOLS AT GRANADA, SPAIN". En: EUROPEAN AEROSOL CONFERENCE HANDBOOK. pp. 10B4 - 10B4.
- 14 Title of the work:** MULTI-INSTRUMENTAL DETECTION OF THE MIXING LAYER HEIGHT OVER GRANADA
Name of the conference: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011) () (.2011.MADRID, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: MADRID, ESPAÑA,
Date of event: 2011
MARÍA JOSÉ GRANADOS MUÑOZ; FRANCISCO JESUS NAVAS GUZMAN; JUAN ANTONIO BRAVO ARANDA; JUAN LUIS GUERRERO RASCADO; JESÚS FERNÁNDEZ GÁLVEZ; LUCAS ALADOS ARBOLEDAS. "MULTI-INSTRUMENTAL DETECTION OF THE MIXING LAYER HEIGHT OVER GRANADA". En: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011). pp. B5-1 - B5-6.
- 15 Title of the work:** Optical and chemical properties of aerosol particles over an urban location. Estimating mass scattering and absorption efficiencies.
Name of the conference: European Aerosol Conference 2011
Type of event: Conference



Date of event: 2011

GLORIA TITOS VELA; INMACULADA FOYO MORENO; HASSAN LYAMANI; Querol, Xavier; Alastuey, Andrés; LUCAS ALADOS ARBOLEDAS.

- 16 Title of the work:** SAHARAN DUST INTRUSION MONITORING. PART 1: Detection, identification and vertical structure analysis
Name of the conference: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011) () (.2011.MADRID, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: MADRID, ESPAÑA,
Date of event: 2011
CARMEN CÓRDOBA JABONERO; JUAN LUIS GUERRERO RASCADO; HASSAN LYAMANI; LUCAS ALADOS ARBOLEDAS; Sorribas-, Mar; JOSÉ ANTONIO ADAME CARNERO; Cachorro-, Victoria; Hernández-, Yballa; MANUEL GIL OJEDA; Cuevas-, Emilio; BENITO A. DE LA MORENA CARRETERO. "SAHARAN DUST INTRUSION MONITORING. PART 1: DETECTION, IDENTIFICATION AND VERTICAL STRUCTURE ANALYSIS". En: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011). pp. D1-1 - D1-7.
- 17 Title of the work:** SAHARAN DUST INTRUSION MONITORING. PART 2: EVALUATION OF POTENTIAL DUST IMPACT ON SURFACE
Name of the conference: SAHARAN DUST INTRUSION MONITORING. PART 1: Detection, identification and vertical structure analysis
Type of event: Conference
City of event: CIEMAT. MADRID, ESPAÑA,
Date of event: 2011
CARMEN CÓRDOBA JABONERO; JUAN LUIS GUERRERO RASCADO; HASSAN LYAMANI; LUCAS ALADOS ARBOLEDAS; MARÍA DEL MAR SORRIBAS PANERO; Cachorro-, Victoria; Gil-, M.; Cuevas-, Emilio; BENITO A. DE LA MORENA CARRETERO. "SAHARAN DUST INTRUSION MONITORING. PART 2: EVALUATION OF POTENTIAL DUST IMPACT ON SURFACE". En: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011). pp. L3-1 - L3-6.
- 18 Title of the work:** STUDY OF AEROSOL OPTICAL PROPERTIES OVER THE IBERIAN PENINSULA BASED ON 9-YEAR MODIS DATASET
Name of the conference: GLOBAL CONFERENCE ON GLOBAL WARMING 2011 () (.2011.LISBOA, PORTUGAL)
Type of event: Conference **Geographical area:** Non EU International
City of event: LISBOA, PORTUGAL,
Date of event: 2011
MARÍA JOSÉ GRANADOS MUÑOZ; ANTONIO DAVID POZO VAZQUEZ; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS. "STUDY OF AEROSOL OPTICAL PROPERTIES OVER THE IBERIAN PENINSULA BASED ON 9-YEAR MODIS DATASET". En: ABSTRACT BOOKLET OF THE GLOBAL CONFERENCE ON GLOBAL WARMING 2011. pp. 78 - 78.
- 19 Title of the work:** STUDY OF GROUND-BASED VERTICAL PROFILES OF TROPOSPHERIC AEROSOL IN COINCIDENCE WITH CALIPSO OVERPASSES AT GRANADA, SPAIN
Name of the conference: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011) () (.2011.MADRID, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: MADRID, ESPAÑA,
Date of event: 2011
FRANCISCO JESUS NAVAS GUZMAN; JUAN ANTONIO BRAVO ARANDA; JUAN LUIS GUERRERO RASCADO; MARÍA JOSÉ GRANADOS MUÑOZ; LUCAS ALADOS ARBOLEDAS. "STUDY OF GROUND-BASED VERTICAL PROFILES OF TROPOSPHERIC AEROSOL IN COINCIDENCE WITH



CALIPSO OVERPASSES AT GRANADA, SPAIN". En: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011). pp. D3-1 - D3-6.

- 20** **Title of the work:** STUDY ON AEROSOL PROPERTIES OVER MADRID (SPAIN) BY MULTIPLE INSTRUMENTATION DURING EARLINET LIDAR INTERCOMPARISON CAMPAIGN: SPALI10
Name of the conference: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011) () (.2011.MADRID, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: MADRID, ESPAÑA,
Date of event: 2011
FRANCISCO JESUS NAVAS GUZMAN; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS; MARÍA JOSÉ GRANADOS MUÑOZ; Amodeo-,Aldo; Molero-,F.; Sicard-, M.; Freudenthaler-,Volker; Mattis-,I; Pujadas-, Manuel; D'Amico-,Giuseppe; Comeron-, Adolfo; Pappalardo-,Gelsomina. "STUDY ON AEROSOL PROPERTIES OVER MADRID (SPAIN) BY MULTIPLE INSTRUMENTATION DURING EARLINET LIDAR INTERCOMPARISON CAMPAIGN: SPALI10". En: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011). pp. B4-1 - B4-6.
- 21** **Title of the work:** STUDY ON AEROSOL PROPERTIES OVER MADRID (SPAIN) BY MULTIPLE INSTRUMENTATION DURING SPALI10 LIDAR CAMPAIGN
Name of the conference: VI WORKSHOP ON LIDAR MEASUREMENTS IN LATIN AMERICA (6) (6.2011.LA PAZ, BOLIVIA)
Type of event: Conference **Geographical area:** Others
City of event: LA PAZ, BOLIVIA,
Date of event: 2011
Molero-,Francisco; Fernández-,Alfonso Favier; Pujadas-, Manuel; Sicard-,Michaël; Tomas-,Sergio; Comeron-, Adolfo; Lange-,Diego; Kumar-, D.; Muñoz-,C.; Rocadenbosh-,F.; FRANCISCO JESUS NAVAS GUZMAN; MARÍA JOSÉ GRANADOS MUÑOZ; LUCAS ALADOS ARBOLEDAS; JUAN ANTONIO BRAVO ARANDA; Preissler-,Jana; Wagner-, F.; JUAN LUIS GUERRERO RASCADO. "STUDY ON AEROSOL PROPERTIES OVER MADRID (SPAIN) BY MULTIPLE INSTRUMENTATION DURING SPALI10 LIDAR CAMPAIGN". En: PROCEEDINGS OF THE VI WORKSHOP ON LIDAR MEASUREMENTS IN LATIN AMERICA. pp. 1 - 3.
- 22** **Title of the work:** SYNERGETIC MONITORING OF SAHARAN DUST PLUMES: A CASE STUDY OF DUST TRANSPORT FROM CANARY ISLANDS TO IBERIAN PENINSULA. PART 1: DUST DETECTION, IDENTIFICATION AND VERTICAL STRUCTURE ANALYSIS
Name of the conference: EUROPEAN AEROSOL CONFERENCE 2011 () (.2011.MANCHESTER, INGLATERRA)
Type of event: Conference **Geographical area:** Non EU International
City of event: MANCHESTER, INGLATERRA,
Date of event: 2011
CARMEN CÓRDOBA JABONERO; MARÍA DEL MAR SORRIBAS PANERO; JUAN LUIS GUERRERO RASCADO; Adame-,J.A.; Hernández-,Yballa; HASSAN LYAMANI; Cachorro-,V. E.; MANUEL GIL OJEDA; LUCAS ALADOS ARBOLEDAS; Cuevas-, Emilio; BENITO A. DE LA MORENA CARRETERO. "SYNERGETIC MONITORING OF SAHARAN DUST PLUMES: A CASE STUDY OF DUST TRANSPORT FROM CANARY ISLANDS TO IBERIAN PENINSULA. PART 1: DUST DETECTION, IDENTIFICATION AND VERTICAL STRUCTURE ANALYSIS". En: EUROPEAN AEROSOL CONFERENCE HANDBOOK. pp. 10B3 - 10B3.
- 23** **Title of the work:** SYNERGETIC MONITORING OF SAHARAN DUST PLUMES: A CASE STUDY OF DUST TRANSPORT FROM CANARY ISLANDS TO IBERIAN PENINSULA. PART 2: EVALUATION OF POTENTIAL DUST IMPACT ON SURFACE
Name of the conference: EUROPEAN AEROSOL CONFERENCE 2011 () (.2011.MANCHESTER, INGLATERRA)



Type of event: Conference

Geographical area: Non EU International

City of event: MANCHESTER, INGLATERRA,

Date of event: 2011

CARMEN CÓRDOBA JABONERO; MARÍA DEL MAR SORRIBAS PANERO; JUAN LUIS GUERRERO RASCADO; JOSÉ ANTONIO ADAME CARNERO; Hernández-, Yballa; HASSAN LYAMANI; Cachorro-, V. E.; MANUEL GIL OJEDA; LUCAS ALADOS ARBOLEDAS; Cuevas-, Emilio; BENITO A. DE LA MORENA CARRETERO. "SYNERGETIC MONITORING OF SAHARAN DUST PLUMES: A CASE STUDY OF DUST TRANSPORT FROM CANARY ISLANDS TO IBERIAN PENINSULA. PART 2: EVALUATION OF POTENTIAL DUST IMPACT ON SURFACE". En: EUROPEAN AEROSOL CONFERENCE HANDBOOK. pp. 8P143 - 8P143.

- 24 Title of the work:** THREE YEARS OF RAMAN LIDAR MEASUREMENTS IN CORRESPONDENCE WITH CALIPSO OVERPASSES OVER THE SOUTH OF THE IBERIAN PENINSULA

Name of the conference: EUROPEAN AEROSOL CONFERENCE 2011 () (.2011.MANCHESTER, INGLATERRA)

Type of event: Conference

Geographical area: Non EU International

City of event: MANCHESTER, INGLATERRA,

Date of event: 2011

FRANCISCO JESUS NAVAS GUZMAN; JUAN ANTONIO BRAVO ARANDA; JUAN LUIS GUERRERO RASCADO; MARÍA JOSÉ GRANADOS MUÑOZ; LUCAS ALADOS ARBOLEDAS. "THREE YEARS OF RAMAN LIDAR MEASUREMENTS IN CORRESPONDENCE WITH CALIPSO OVERPASSES OVER THE SOUTH OF THE IBERIAN PENINSULA". En: EUROPEAN AEROSOL CONFERENCE HANDBOOK. pp. 8P145 - 8P145.

- 25 Title of the work:** WATER VAPOUR FROM SUN AND STAR PHOTOMETER AS COMPARED WITH PASSIVE MICROWAVE RADIOMETRY: MODIFIED K-CICLO FOR CORRECTING SUN PHOTOMETER CALIBRATION

Name of the conference: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011) () (.2011.MADRID, ESPAÑA)

Type of event: Conference

Geographical area: National

City of event: MADRID, ESPAÑA,

Date of event: 2011

DANIEL PÉREZ RAMÍREZ; JESÚS FERNÁNDEZ GÁLVEZ; HASSAN LYAMANI; MARÍA JOSÉ GRANADOS MUÑOZ; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "WATER VAPOUR FROM SUN AND STAR PHOTOMETER AS COMPARED WITH PASSIVE MICROWAVE RADIOMETRY: MODIFIED K-CICLO FOR CORRECTING SUN PHOTOMETER CALIBRATION". En: V REUNIÓN DE LA ASOCIACIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES (RECTA 2011). pp. D5-1 - D5-6.

- 26 Title of the work:** AEROSOL DIRECT RADIATIVE EFFECTS OF A TRANSATLANTIC BIOMASS BURNING PLUME OVER GRANADA, SPAIN

Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)

Type of event: Conference

Geographical area: National

City of event: GRANADA, ESPAÑA,

Date of event: 2010

JUAN LUIS GUERRERO RASCADO; FRANCISCO JOSE OLMO REYES; Molero-, F.; FRANCISCO JESUS NAVAS GUZMAN; Costa-, M. J.; Silva-, Ana María; Pujadas-, Manuel; Sicard-, M.; LUCAS ALADOS ARBOLEDAS. "AEROSOL DIRECT RADIATIVE EFFECTS OF A TRANSATLANTIC BIOMASS BURNING PLUME OVER GRANADA, SPAIN". En: BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. C7 - C7.



- 27** **Title of the work:** AEROSOL PARTICLE MICROPHYSICAL PROPERTIES DURING THE 2009 SUMMER IN EL ARENOSILLO
Name of the conference: REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE LOS AEROSOLES () (.2010.GRANADA)
Type of event: Conference **Geographical area:** National
City of event: GRANADA,
Date of event: 2010
MARÍA DE LAS MERCEDES FERNÁNDEZ LEÓN; MARÍA DEL MAR SORRIBAS PANERO; LUCAS ALADOS ARBOLEDAS; BENITO A. DE LA MORENA CARRETERO. "AEROSOL PARTICLE MICROPHYSICAL PROPERTIES DURING THE 2009 SUMMER IN EL ARENOSILLO". En: REUNION ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE LOS AEROSOLES. pp. 1 - 6.
- 28** **Title of the work:** AEROSOL PROPERTIES RETRIEVED FROM SKY RADIANCE AT THE PRINCIPAL PLANE FOR NONSPHERICAL PARTICLES
Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: GRANADA, ESPAÑA,
Date of event: 2010
ANTONIO VALENZUELA GUTIERREZ; FRANCISCO JOSE OLMO REYES; HASSAN LYAMANI; ARTURO GABRIEL QUIRANTES SIERRA; LUCAS ALADOS ARBOLEDAS. "AEROSOL PROPERTIES RETRIEVED FROM SKY RADIANCE AT THE PRINCIPAL PLANE FOR NONSPHERICAL PARTICLES". En: BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. C14 - C14.
- 29** **Title of the work:** AEROSOL SIZE DISTRIBUTIONS RETRIEVED FROM STARPHOTOMETRY BY KING INVERSION METHOD
Name of the conference: 3RD INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN QUANTITATIVE REMOTE SENSING () (.2010.TORRENT, ESPAÑA)
Type of event: Conference **Geographical area:** Non EU International
City of event: TORRENT, ESPAÑA,
Date of event: 2010
DANIEL PÉREZ RAMÍREZ; HASSAN LYAMANI; FRANCISCO JOSE OLMO REYES; FRANCISCO JESUS NAVAS GUZMAN; LUCAS ALADOS ARBOLEDAS. "AEROSOL SIZE DISTRIBUTIONS RETRIEVED FROM STARPHOTOMETRY BY KING INVERSION METHOD". En: ABSTRACT BOOK OF THE 3RD INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN QUANTITATIVE REMOTE SENSING. pp. 43 - 44.
- 30** **Title of the work:** ALFA/BETA: A DUAL DATABASE FOR LIGHT SCATTERING SIMULATIONS ON ATMOSPHERIC AEROSOLS
Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: GRANADA, ESPAÑA,
Date of event: 2010
ARTURO GABRIEL QUIRANTES SIERRA; FRANCISCO JOSE OLMO REYES; ANTONIO VALENZUELA GUTIERREZ; HASSAN LYAMANI; LUCAS ALADOS ARBOLEDAS. "ALFA/BETA: A DUAL DATABASE FOR LIGHT SCATTERING SIMULATIONS ON ATMOSPHERIC AEROSOLS". En: BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. D4 - D4.
- 31** **Title of the work:** ATMOSPHERIC AEROSOL CHARACTERIZATION BY LIDAR DEPOLARIZATION PROFILES
Name of the conference: 3RD INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN QUANTITATIVE REMOTE SENSING () (.2010.TORRENT, ESPAÑA)



Type of event: Conference

Geographical area: Non EU International

City of event: TORRENT, ESPAÑA,

Date of event: 2010

JUAN ANTONIO BRAVO ARANDA; FRANCISCO JESUS NAVAS GUZMAN; MARÍA JOSÉ GRANADOS MUÑOZ; LUCAS ALADOS ARBOLEDAS. "ATMOSPHERIC AEROSOL CHARACTERIZATION BY LIDAR DEPOLARIZATION PROFILES". En: ABSTRACT BOOK OF THE 3RD INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN QUANTITATIVE REMOTE SENSING. 1, pp. 201 - 201.

32 Title of the work: CHARACTERIZATION OF ATMOSPHERIC AEROSOLS FOR A LONG-RANGE TRANSPORT OF BIOMASS-BURNING FROM NORTH AMERICA OVER THE IBERIAN PENINSULA

Name of the conference: 25TH INTERNATIONAL LASER RADAR CONFERENCE () (.2010.SAN PETERSBURGO, RUSIA)

Type of event: Conference

Geographical area: Non EU International

City of event: SAN PETERSBURGO, RUSIA,

Date of event: 2010

JUAN LUIS GUERRERO RASCADO; FRANCISCO JOSE OLMO REYES; Molero-,F.; FRANCISCO JESUS NAVAS GUZMAN; Costa-,M. J.; Silva-,Ana María; Pujadas-, Manuel; Sicard-, M.; LUCAS ALADOS ARBOLEDAS. "CHARACTERIZATION OF ATMOSPHERIC AEROSOLS FOR A LONG-RANGE TRANSPORT OF BIOMASS-BURNING FROM NORTH AMERICA OVER THE IBERIAN PENINSULA". En: BOOK OF CONFERENCE PROGRAM AND ABSTRACTS OF PAPERS PRESENTED AT THE 25TH INTERNATIONAL LASER RADAR CONFERENCE. pp. 93 - 93.

33 Title of the work: CLOUD SCREENING ALGORITHM FOR STARPHOTOMETRY

Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)

Type of event: Conference

Geographical area: National

City of event: GRANADA, ESPAÑA,

Date of event: 2010

DANIEL PÉREZ RAMÍREZ; HASSAN LYAMANI; FRANCISCO JESUS NAVAS GUZMAN; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "CLOUD SCREENING ALGORITHM FOR STARPHOTOMETRY". En: BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. C12 - C12.

34 Title of the work: COMPARISON OF SPALINET NETWORK LIDAR MEASUREMENTS WITH MODELS FORECASTS DURING THE EYJAFJALLA EVENT

Name of the conference: 25TH INTERNATIONAL LASER RADAR CONFERENCE () (.2010.SAN PETERSBURGO, RUSIA)

Type of event: Conference

Geographical area: Non EU International

City of event: SAN PETERSBURGO, RUSIA,

Date of event: 2010

Molero-,F.; Sicard-, M.; JUAN LUIS GUERRERO RASCADO; FRANCISCO JESUS NAVAS GUZMAN; Tomas-,S; Preissler-,Jana; Kumar-, D.; Rocadenbosch-,F.; LUCAS ALADOS ARBOLEDAS; Wagner-, F.; Comeron-, Adolfo; Pujadas-, Manuel. "COMPARISON OF SPALINET NETWORK LIDAR MEASUREMENTS WITH MODELS FORECASTS DURING THE EYJAFJALLA EVENT". En: BOOK OF CONFERENCE PROGRAM AND ABSTRACTS OF PAPERS PRESENTED AT THE 25TH INTERNATIONAL LASER RADAR CONFERENCE. pp. - - -.

35 Title of the work: ESTIMATING ABSORPTION AND SCATTERING EFFICIENCIES FOR PARTICULATES PM10 AT AN URBAN SITE

Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)

Type of event: Conference

Geographical area: National

City of event: GRANADA, ESPAÑA,



Date of event: 2010

GLORIA TITOS VELA; INMACULADA FOYO MORENO; HASSAN LYAMANI; Querol-, X.; Alastuey-Urós, Andrés; LUCAS ALADOS ARBOLEDAS. "ESTIMATING ABSORPTION AND SCATTERING EFFICIENCIES FOR PARTICULATES PM10 AT AN URBAN SITE". En: BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. A11 - A11.

36 Title of the work: EVALUATION OF TWO CORRECTION SCHEMES OF PARTICLE SOOT ABSORPTION PHOTOMETER DATA

Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)

Type of event: Conference

Geographical area: National

City of event: GRANADA, ESPAÑA,

Date of event: 2010

HASSAN LYAMANI; INMACULADA FOYO MORENO; JUAN ANTONIO BRAVO ARANDA; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "EVALUATION OF TWO CORRECTION SCHEMES OF PARTICLE SOOT ABSORPTION PHOTOMETER DATA". En: BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. E5 - E5.

37 Title of the work: GROUND-BASED ACTIVE AND PASSIVE REMOTE SENSING OF THE EYJAFJALLAJÖKULL VOLCANIC AEROSOLS AT GRANADA, SPAIN

Name of the conference: 25TH INTERNATIONAL LASER RADAR CONFERENCE () (.2010.SAN PETERSBURGO, RUSIA)

Type of event: Conference

Geographical area: Non EU International

City of event: SAN PETERSBURGO, RUSIA,

Date of event: 2010

LUCAS ALADOS ARBOLEDAS; FRANCISCO JESUS NAVAS GUZMAN; JUAN ANTONIO BRAVO ARANDA; HASSAN LYAMANI; DANIEL PÉREZ RAMÍREZ; JUAN LUIS GUERRERO RASCADO; MANUEL ANTON MARTÍNEZ; FRANCISCO JOSE OLMO REYES. "GROUND-BASED ACTIVE AND PASSIVE REMOTE SENSING OF THE EYJAFJALLAJÖKULL VOLCANIC AEROSOLS AT GRANADA, SPAIN". En: BOOK OF CONFERENCE PROGRAM AND ABSTRACTS OF PAPERS PRESENTED AT THE 25TH INTERNATIONAL LASER RADAR CONFERENCE. pp. - - -.

38 Title of the work: INFLUENCE OF AIR MASS ORIGIN ON ATMOSPHERIC PARTICULATE MATTER AT A SPANISH EMEP STATION: A FIVE-YEAR STUDY

Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)

Type of event: Conference

Geographical area: National

City of event: GRANADA, ESPAÑA,

Date of event: 2010

Calvo-,A.I.; FRANCISCO JOSE OLMO REYES; HASSAN LYAMANI; JUAN LUIS GUERRERO RASCADO; Castro-,A.; Pont-,V.; Fernández-Raga-,M.; LUCAS ALADOS ARBOLEDAS; Fraile-,R."INFLUENCE OF AIR MASS ORIGIN ON ATMOSPHERIC PARTICULATE MATTER AT A SPANISH EMEP STATION: A FIVE-YEAR STUDY". En: BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. B6 - B6.

39 Title of the work: LONG-TERM AIR QUALITY TRENDS OVER GRANADA, SPAIN

Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)

Type of event: Conference

Geographical area: National

City of event: GRANADA, ESPAÑA,

Date of event: 2010

JUAN ANTONIO BRAVO ARANDA; HASSAN LYAMANI; FRANCISCO JOSE OLMO REYES; Vera, José; LUCAS ALADOS ARBOLEDAS. "LONG-TERM AIR QUALITY TRENDS OVER GRANADA, SPAIN". En:



BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. F8 - F8.

- 40** **Title of the work:** MONITORING OF LOFTED AEROSOL LAYERS OF MINERAL DESERT DUST WITH RAMAN LIDAR AND A SET OF PHOTOMETERS AT DIFFERENT ALTITUDES
Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: GRANADA, ESPAÑA,
Date of event: 2010
FRANCISCO JOSE OLMO REYES; FRANCISCO JESUS NAVAS GUZMAN; HASSAN LYAMANI; JUAN ANTONIO BRAVO ARANDA; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS. "MONITORING OF LOFTED AEROSOL LAYERS OF MINERAL DESERT DUST WITH RAMAN LIDAR AND A SET OF PHOTOMETERS AT DIFFERENT ALTITUDES". En: BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. C11 - C11.
- 41** **Title of the work:** MONITORING OF THE EYJAFJALLAJÖKULL ASH PLUME AT FOUR LIDAR STATIONS OVER THE IBERIAN PENINSULA: 6 TO 8 MAY 2010
Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: GRANADA, ESPAÑA,
Date of event: 2010
Sicard-, M.; JUAN LUIS GUERRERO RASCADO; Molero-,F.; FRANCISCO JESUS NAVAS GUZMAN; Preissler-,Jana; Kumar-, D.; JUAN ANTONIO BRAVO ARANDA; Tomas-,S; Reba-,M.D.; LUCAS ALADOS ARBOLEDAS; Comeron-, Adolfo; Pujadas-, Manuel; Rocadenbosch-,F.; Wagner-, F.; Silva-,Ana María. "MONITORING OF THE EYJAFJALLAJÖKULL ASH PLUME AT FOUR LIDAR STATIONS OVER THE IBERIAN PENINSULA: 6 TO 8 MAY 2010". En: BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. C15 - C15.
- 42** **Title of the work:** MONITORING OF THE EYJAFJALLAJÖKULL VOLCANIC ASH PLUME AT GRANADA, SPAIN, IN THE FRAMEWORK OF EARLINET AND AERONET
Name of the conference: INTERNATIONAL AEROSOL CONFERENCE 2010 () (.2010.HELSINKI, FINLANDIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: HELSINKI, FINLANDIA,
Date of event: 2010
LUCAS ALADOS ARBOLEDAS; FRANCISCO JESUS NAVAS GUZMAN; JUAN ANTONIO BRAVO ARANDA; HASSAN LYAMANI; DANIEL PÉREZ RAMÍREZ; JUAN LUIS GUERRERO RASCADO; FRANCISCO JOSE OLMO REYES. "MONITORING OF THE EYJAFJALLAJÖKULL VOLCANIC ASH PLUME AT GRANADA, SPAIN, IN THE FRAMEWORK OF EARLINET AND AERONET". En: ABSTRACT BOOK. INTERNATIONAL AEROSOL CONFERENCE 2010. pp. - - -.
- 43** **Title of the work:** ON THE SYNERGIC USE OF PASSIVE AND ACTIVE REMOTE SENSING FOR ATMOSPHERIC AEROSOL RADIATIVE EFFECT COMPUTATIONS
Name of the conference: 25TH INTERNATIONAL LASER RADAR CONFERENCE () (.2010.SAN PETERSBURGO, RUSIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: SAN PETERSBURGO, RUSIA,
Date of event: 2010
FRANCISCO JESUS NAVAS GUZMAN; DANIEL PÉREZ RAMÍREZ; FRANCISCO JOSE OLMO REYES; HASSAN LYAMANI; JUAN LUIS GUERRERO RASCADO; JUAN ANTONIO BRAVO ARANDA; LUCAS ALADOS ARBOLEDAS. "ON THE SYNERGETIC USE OF PASSIVE AND ACTIVE REMOTE SENSING



FOR ATMOSPHERIC AEROSOL RADIATIVE EFFECT COMPUTATIONS". En: BOOK OF CONFERENCE PROGRAM AND ABSTRACTS OF PAPERS PRESENTED AT THE 25TH INTERNATIONAL LASER RADAR CONFERENCE. pp. 158 - 158.

- 44** **Title of the work:** OPTICAL AND MICROPHYSICAL PROPERTIES OF TROPOSPHERIC AEROSOL FROM RAMAN LIDAR
Name of the conference: 3RD INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN QUANTITATIVE REMOTE SENSING () (.2010.TORRENT, ESPAÑA)
Type of event: Conference **Geographical area:** Non EU International
City of event: TORRENT, ESPAÑA,
Date of event: 2010
FRANCISCO JESUS NAVAS GUZMAN; Muller-,D; DANIEL PÉREZ RAMÍREZ; JUAN LUIS GUERRERO RASCADO; JUAN ANTONIO BRAVO ARANDA; LUCAS ALADOS ARBOLEDAS. "OPTICAL AND MICROPHYSICAL PROPERTIES OF TROPOSPHERIC AEROSOL FROM RAMAN LIDAR". En: ABSTRACT BOOK OF THE 3RD INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN QUANTITATIVE REMOTE SENSING. pp. 203 - 204.
- 45** **Title of the work:** RELATIONSHIP BETWEEN THE FRACTION OF BACKSCATTERED LIGHT AND THE ASYMMETRY PARAMETER
Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: GRANADA, ESPAÑA,
Date of event: 2010
Horvath-,H; Tohno-,S.; FRANCISCO JOSE OLMO REYES; Quirantes-Sierra,Arturo; HASSAN LYAMANI; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS. "RELATIONSHIP BETWEEN THE FRACTION OF BACKSCATTERED LIGHT AND THE ASYMMETRY PARAMETER". En: BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. A7 - A7.
- 46** **Title of the work:** RELATIONSHIP BETWEEN THE FRACTION OF BACKSCATTERED LIGHT AND THE ASYMMETRY PARAMETER
Name of the conference: INTERNATIONAL AEROSOL CONFERENCE 2010 () (.2010.HELSINKI, FINLANDIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: HELSINKI, FINLANDIA,
Date of event: 2010
Horvath-,H; Tohno-,S.; FRANCISCO JOSE OLMO REYES; Quirantes-Sierra,Arturo; HASSAN LYAMANI; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS. "RELATIONSHIP BETWEEN THE FRACTION OF BACKSCATTERED LIGHT AND THE ASYMMETRY PARAMETER". En: ABSTRACT BOOK. INTERNATIONAL AEROSOL CONFERENCE 2010. pp. - - -.
- 47** **Title of the work:** REPRESENTATIVENESS OF AEROSOL MEASUREMENTS: EARLINET-CALIPSO CORRELATIVE STUDY
Name of the conference: 25TH INTERNATIONAL LASER RADAR CONFERENCE () (.2010.SAN PETERSBURGO, RUSIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: SAN PETERSBURGO, RUSIA,
Date of event: 2010
Pappalardo-,Gelsomina; Wandinger-,U.; Mona-,L; Hiebsch-,Anja; Mattis-,I; Linné-,Holger; Apituley-,Arnoud; LUCAS ALADOS ARBOLEDAS; Balis-,Dimitris; Comeron-, Adolfo; Freudenthaler-,Volker; Giannakaki-,Elina; Giunta-,Aldo; JUAN LUIS GUERRERO RASCADO; Madonna-,Fabio; Mamouri-,Rodelize-Elizabeth; Molero-,F.; Papayannis-,Alexandros; Pujadas-, Manuel; Rocadenbosch-,F.; Spinelli-,Nicola; Wang-,X; Wiegner-,Matthias. "REPRESENTATIVENESS OF AEROSOL MEASUREMENTS: EARLINET-CALIPSO



CORRELATIVE STUDY". En: BOOK OF CONFERENCE PROGRAM AND ABSTRACTS OF PAPERS PRESENTED AT THE 25TH INTERNATIONAL LASER RADAR CONFERENCE. pp. 59 - 59.

48 Title of the work: RETRIEVAL OF AEROSOL MICROPHYSICAL PROPERTIES BY RAMAN LIDAR, AND STAR- AND SUN-PHOTOMETRY

Name of the conference: INTERNATIONAL AEROSOL CONFERENCE 2010 () (.2010.HELSINKI, FINLANDIA)

Type of event: Conference

Geographical area: Non EU International

City of event: HELSINKI, FINLANDIA,

Date of event: 2010

LUCAS ALADOS ARBOLEDAS; Muller-,D; FRANCISCO JESUS NAVAS GUZMAN; DANIEL PÉREZ RAMÍREZ; JUAN LUIS GUERRERO RASCADO; FRANCISCO JOSE OLMO REYES. "RETRIEVAL OF AEROSOL MICROPHYSICAL PROPERTIES BY RAMAN LIDAR, AND STAR- AND SUN-PHOTOMETRY". En: ABSTRACT BOOK. INTERNATIONAL AEROSOL CONFERENCE 2010. pp. - - -.

49 Title of the work: SEGUIMIENTO DE LAS CENIZAS DEL EYJAFJALLA SOBRE LA PENÍNSULA IBÉRICA POR LA RED DE LIDARES HISPANO-PORTUGUESA SPALINET

Name of the conference: X CONGRESO NACIONAL DEL MEDIO AMBIENTE () (.2010.MADRID, ESPAÑA)

Type of event: Conference

Geographical area: National

City of event: MADRID, ESPAÑA,

Date of event: 2010

Sicard-, M.; Comeron-, Adolfo; Molero-,Francisco; JUAN LUIS GUERRERO RASCADO; FRANCISCO JESUS NAVAS GUZMAN; Bolarín-,Jose Miguel; Rocadenbosh-,F.; Tomas-,Sergio; Kumar-,Dhiraj; Pujadas-, Manuel; Preissler-,Jana; Wagner-, F.; JUAN ANTONIO BRAVO ARANDA; LUCAS ALADOS ARBOLEDAS; Requena-,Alberto; Silva-,Ana María. "SEGUIMIENTO DE LAS CENIZAS DEL EYJAFJALLA SOBRE LA PENÍNSULA IBÉRICA POR LA RED DE LIDARES HISPANO-PORTUGUESA SPALINET". En: X CONGRESO NACIONAL DEL MEDIO AMBIENTE. pp. 10 - 17.

50 Title of the work: STAR PHOTOMETER FOR AEROSOL CHARACTERIZATION: IMPROVEMENTS ON CALIBRATION PROCEDURES BY ASTRONOMIC LANGLEY

Name of the conference: 3RD INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN QUANTITATIVE REMOTE SENSING () (.2010.TORRENT, ESPAÑA)

Type of event: Conference

Geographical area: Non EU International

City of event: TORRENT, ESPAÑA,

Date of event: 2010

DANIEL PÉREZ RAMÍREZ; HASSAN LYAMANI; FRANCISCO JOSE OLMO REYES; FRANCISCO JESUS NAVAS GUZMAN; LUCAS ALADOS ARBOLEDAS. "STAR PHOTOMETER FOR AEROSOL CHARACTERIZATION: IMPROVEMENTS ON CALIBRATION PROCEDURES BY ASTRONOMIC LANGLEY". En: ABSTRACT BOOK OF THE 3RD INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN QUANTITATIVE REMOTE SENSING. pp. 44 - 45.

51 Title of the work: STUDY ON THE ASSUMPTION OF USING A RANGE-INDEPENDENT LIDAR RATIO IN ELASTIC LIDAR

Name of the conference: 3RD INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN QUANTITATIVE REMOTE SENSING () (.2010.TORRENT, ESPAÑA)

Type of event: Conference

Geographical area: Non EU International

City of event: TORRENT, ESPAÑA,

Date of event: 2010

FRANCISCO JESUS NAVAS GUZMAN; FRANCISCO JOSE OLMO REYES; JUAN LUIS GUERRERO RASCADO; HASSAN LYAMANI; JUAN ANTONIO BRAVO ARANDA; LUCAS ALADOS ARBOLEDAS. "STUDY ON THE ASSUMPTION OF USING A RANGE-INDEPENDENT LIDAR RATIO IN ELASTIC



LIDAR". En: ABSTRACT BOOK OF THE 3RD INTERNATIONAL SYMPOSIUM ON RECENT ADVANCES IN QUANTITATIVE REMOTE SENSING. pp. 204 - 205.

- 52** **Title of the work:** STUDY ON THE PLANETARY BOUNDARY LAYER TOP WITH RAMAN LIDAR
Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: GRANADA, ESPAÑA,
Date of event: 2010
FRANCISCO JESUS NAVAS GUZMAN; JUAN ANTONIO BRAVO ARANDA; MARÍA JOSÉ GRANADOS MUÑOZ; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS. "STUDY ON THE PLANETARY BOUNDARY LAYER TOP WITH RAMAN LIDAR". En: BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. C9 - C9.
- 53** **Title of the work:** USE OF GROUND BASED PASSIVE AND ACTIVE REMOTE SENSING FOR THE RETRIEVAL OF AEROSOL MICROPHYSICAL PROPERTIES
Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: GRANADA, ESPAÑA,
Date of event: 2010
LUCAS ALADOS ARBOLEDAS; Muller-,D; FRANCISCO JESUS NAVAS GUZMAN; DANIEL PÉREZ RAMÍREZ; JUAN LUIS GUERRERO RASCADO; FRANCISCO JOSE OLMO REYES. "USE OF GROUND BASED PASSIVE AND ACTIVE REMOTE SENSING FOR THE RETRIEVAL OF AEROSOL MICROPHYSICAL PROPERTIES". En: BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. C2 - C2.
- 54** **Title of the work:** VARIABILITY OF AEROSOL PROPERTIES IN MÁLAGA (SPAIN)
Name of the conference: CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2010.GRANADA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: GRANADA, ESPAÑA,
Date of event: 2010
INMACULADA ALADOS ARBOLEDAS; INMACULADA FOYO MORENO; HASSAN LYAMANI; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "VARIABILITY OF AEROSOL PROPERTIES IN MÁLAGA (SPAIN)". En: BOOK OF ABSTRACTS. CUARTA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. C1 - C1.
- 55** **Title of the work:** VERTICAL STRUCTURE OF THE ATMOSPHERIC AEROSOL DERIVED FROM RAMAN LIDAR AND A SET OF PHOTOMETERS AT DIFFERENT ALTITUDES
Name of the conference: INTERNATIONAL AEROSOL CONFERENCE 2010 () (.2010.HELSINKI, FINLANDIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: HELSINKI, FINLANDIA,
Date of event: 2010
FRANCISCO JOSE OLMO REYES; FRANCISCO JESUS NAVAS GUZMAN; HASSAN LYAMANI; JUAN ANTONIO BRAVO ARANDA; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS. "VERTICAL STRUCTURE OF THE ATMOSPHERIC AEROSOL DERIVED FROM RAMAN LIDAR AND A SET OF PHOTOMETERS AT DIFFERENT ALTITUDES". En: ABSTRACT BOOK. INTERNATIONAL AEROSOL CONFERENCE 2010. pp. - - -.



- 56** **Title of the work:** A CASE STUDY DURING DAMOCLES CAMPAIGN - 29TH JUNE 2006: LIDAR, IN SITU MEASUREMENTS ON BOARD AIRCRAFT AND SUNPHOTOMETER
Name of the conference: OPTOELECTRONIC TECHNIQUES FOR ENVIRONMENTAL MONITORING (3) (3.2009.BUCAREST, RUMANÍA)
Type of event: Conference **Geographical area:** Non EU International
City of event: BUCAREST, RUMANÍA,
Date of event: 2009
JUAN LUIS GUERRERO RASCADO; Andrey-, J.; Sicard-, M.; Serrano-,O; Molero-,F.; Comeron-, Adolfo; Pujadas-, Manuel; Rocadenbosch-,F.; Pedrós-,Roberto; Gil-, M.; LUCAS ALADOS ARBOLEDAS. "A CASE STUDY DURING DAMOCLES CAMPAIGN - 29TH JUNE 2006: LIDAR, IN SITU MEASUREMENTS ON BOARD AIRCRAFT AND SUNPHOTOMETER". En: PAPERS IN 3RD INTERNATIONAL WORKSHOP ON OPTOELECTRONIC TECHNIQUES FOR ENVIRONMENTAL MONITORING. pp. 44 - 47.
- 57** **Title of the work:** A PRACTICAL FRAMEWORK FOR LEARNING ABOUT WEATHER AND CLIMATE
Name of the conference: ICERI 2009. INTERNATIONAL CONFERENCE OF EDUCATION, RESEARCH AND INNOVATION (1) (1.2009.MADRID (SPAIN))
Type of event: Conference **Geographical area:** Others
City of event: MADRID (SPAIN),
Date of event: 2009
MARÍA JESÚS ESTEBAN PARRA; ANDREW STEPHEN KOWALSKI; LUCAS ALADOS ARBOLEDAS; FRANCISCO JOSE OLMO REYES. "A PRACTICAL FRAMEWORK FOR LEARNING ABOUT WEATHER AND CLIMATE". En: ICERI 2009. INTERNATIONAL CONFERENCE OF EDUCATION, RESEARCH AN INNOVATION (PROCEEDINGS). pp. 1 - 6.
- 58** **Title of the work:** ACTIVE AND PASSIVE REMOTE SENSING: ANALYSIS OF AN EXTREME EVENT OVER SOUTHERN IBERIAN PENINSULA
Name of the conference: EUROPEAN AEROSOL CONFERENCE (EAC 2009)
Type of event: Conference **Geographical area:** Non EU International
City of event: KARLSRUHE, GERMANY,
Date of event: 2009
JUAN LUIS GUERRERO RASCADO; FRANCISCO JOSE OLMO REYES; FRANCISCO JESUS NAVAS GUZMAN; DANIEL PÉREZ RAMÍREZ; HASSAN LYAMANI; LUCAS ALADOS ARBOLEDAS. "ACTIVE AND PASSIVE REMOTE SENSING: ANALYSIS OF AN EXTREME EVENT OVER SOUTHERN IBERIAN PENINSULA". En: EUROPEAN AEROSOL CONFERENCE 2009. pp. T046A08 - T046A08.
- 59** **Title of the work:** ACTIVE/PASSIVE CHARACTERIZATION OF MINERAL DUST FROM SURFACE/SATELLITE DURING AN EXTREME OUTBREAK
Name of the conference: III REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES
Type of event: Conference **Geographical area:** National
City of event: BILBAO,
Date of event: 2009
JUAN LUIS GUERRERO RASCADO; FRANCISCO JOSE OLMO REYES; Avilés-Rodríguez,Iván; FRANCISCO JESUS NAVAS GUZMAN; DANIEL PÉREZ RAMÍREZ; HASSAN LYAMANI; LUCAS ALADOS ARBOLEDAS. "ACTIVE/PASSIVE CHARACTERIZATION OF MINERAL DUST FROM SURFACE/SATELLITE DURING AN EXTREME OUTBREAK". En: TERCERA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. - - -.
- 60** **Title of the work:** AEROSOL CHARACTERIZATION WITH A CALIBRATED CCD SKY IMAGER
Name of the conference: NINETEENTH ATMOSPHERIC RADIATION MEASUREMENT (ARM) SCIENCE TEAM MEETING () (.2009.LOUISVILLE, KENTUCKY, USA)
Type of event: Conference **Geographical area:** Non EU International
City of event: LOUISVILLE, KENTUCKY, USA,
Date of event: 2009



ALBERTO CAZORLA CABRERA; Wagener-,R.; Shields-,J.E.; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "AEROSOL CHARACTERIZATION WITH A CALIBRATED CCD SKY IMAGER". En: NINETEENTH ATMOSPHERIC RADIATION MEASUREMENT (ARM) SCIENCE TEAM MEETING. pp. - - -.

- 61** **Title of the work:** AEROSOL CHARACTERIZATION WITH A CALIBRATED SKY CAMERA
Name of the conference: III REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES
Type of event: Conference **Geographical area:** National
City of event: BILBAO,
Date of event: 2009
ALBERTO CAZORLA CABRERA; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "AEROSOL CHARACTERIZATION WITH A CALIBRATED SKY CAMERA". En: TERCERA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. - - -.
- 62** **Title of the work:** AEROSOL VERTICAL PROFILES FROM LIDAR AND AIRBORNE MEASUREMENTS DURING DAMOCLES CAMPAIGN
Name of the conference: III REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES
Type of event: Conference **Geographical area:** National
City of event: BILBAO,
Date of event: 2009
JUAN LUIS GUERRERO RASCADO; Andrey-, J.; Sicard-, M.; Molero-,F.; Comeron-, Adolfo; Serrano-,O; Pujadas-, Manuel; Rocadenbosch-,F.; Pedrós-,Roberto; Gil-, M.; LUCAS ALADOS ARBOLEDAS. "AEROSOL VERTICAL PROFILES FROM LIDAR AND AIRBORNE MEASUREMENTS DURING DAMOCLES CAMPAIGN". En: TERCERA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. - - -.
- 63** **Title of the work:** AIRBORNE AND GROUND BASED INSTRUMENTATION COMPARISON: CLOSURE STUDY DURING CAPEX PROJECT
Name of the conference: 8TH INTERNATIONAL SYMPOSIUM ON TROPOSPHERIC PROFILING: INTEGRATION OF NEEDS, TECHNOLOGIES AND APPLICATIONS () (.2009.DELFT, HOLANDA)
Type of event: Conference **Geographical area:** Non EU International
City of event: DELFT, HOLANDA,
Date of event: 2009
JUAN LUIS GUERRERO RASCADO; HASSAN LYAMANI; Silva-,Ana María; Wagner-, F.; Pereira-, S.; FRANCISCO JESUS NAVAS GUZMAN; JUAN ANTONIO BRAVO ARANDA; LUCAS ALADOS ARBOLEDAS. "AIRBORNE AND GROUND BASED INSTRUMENTATION COMPARISON: CLOSURE STUDY DURING CAPEX PROJECT". En: BOOK OF ABSTRACTS ON 8TH INTERNATIONAL SYMPOSIUM ON TROPOSPHERIC PROFILING: INTEGRATION OF NEEDS, TECHNOLOGIES AND APPLICATIONS. pp. 194 - 194.
- 64** **Title of the work:** ANALYSES OF MODIS AEROSOL PRODUCTS OVER THE IBERIAN PENINSULA
Name of the conference: III REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES
Type of event: Conference **Geographical area:** National
City of event: BILBAO,
Date of event: 2009
MARÍA JOSÉ GRANADOS MUÑOZ; LUCAS ALADOS ARBOLEDAS. "ANALYSES OF MODIS AEROSOL PRODUCTS OVER THE IBERIAN PENINSULA". En: TERCERA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. - - -.
- 65** **Title of the work:** ANALYSES OF MODIS AEROSOL PRODUCTS OVER THE IBERIAN PENINSULA
Name of the conference: EUROPEAN AEROSOL CONFERENCE (EAC 2009)
Type of event: Conference **Geographical area:** Non EU International
City of event: KARLSRUHE, GERMANY,



Date of event: 2009

MARÍA JOSÉ GRANADOS MUÑOZ; LUCAS ALADOS ARBOLEDAS. "ANALYSES OF MODIS AEROSOL PRODUCTS OVER THE IBERIAN PENINSULA". En: EUROPEAN AEROSOL CONFERENCE 2009. pp. T046A13 - T046A13.

- 66** **Title of the work:** ANALYSIS OF THE EARLINET CORRELATIVE MEASUREMENTS FOR CALIPSO
Name of the conference: SPIE EUROPE REMOTE SENSING () (.2009.BERLÍN, ALEMANIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: BERLÍN, ALEMANIA,
Date of event: 2009
Pappalardo-,Gelsomina; Mona-,L; Wandinger-,U.; Amodeo-,Aldo; Ansmann-,Albert; Apituley-,Arnoud; LUCAS ALADOS ARBOLEDAS; Balis-,Dimitris; Chaikovsky-,Anatoly; Comeron-, Adolfo; D'Amico-,G; Freudenthaler-,Volker; Giunta-,Aldo; Grigorov-,I.; Hiebsch-,Anja; Linné-,Holger; Madonna-,Fabio; Papayannis-,Alexandros; Perrone-,Mr; Pietruczuk-,Aleksander; Pujadas-, Manuel; Rizi-,Vincenzo; Spinelli-,Nicola; Wiegner-,Matthias. "ANALYSIS OF THE EARLINET CORRELATIVE MEASUREMENTS FOR CALIPSO". En: PROCEEDINGS OF SPIE REMOTE SENSING FOR AGRICULTURE, ECOSYSTEMS, AND HYDROLOGY XI. 7479, pp. 74790B-1 - 74790B-10.
- 67** **Title of the work:** ATMOSPHERIC AEROSOL PROPERTIES IN AN URBAN ATMOSPHERE: ESTIO2005
Name of the conference: 8TH INTERNATIONAL SYMPOSIUM ON TROPOSPHERIC PROFILING: INTEGRATION OF NEEDS, TECHNOLOGIES AND APPLICATIONS () (.2009.DELFT, HOLANDA)
Type of event: Conference **Geographical area:** Non EU International
City of event: DELFT, HOLANDA,
Date of event: 2009
LUCAS ALADOS ARBOLEDAS; Horvath-,H; Querol-, X.; FRANCISCO JOSE OLMO REYES; JUAN LUIS GUERRERO RASCADO; HASSAN LYAMANI; FRANCISCO JESUS NAVAS GUZMAN; JUAN ANTONIO BRAVO ARANDA; Gangl-,Martin; Alastuey-, A."ATMOSPHERIC AEROSOL PROPERTIES IN AN URBAN ATMOSPHERE: ESTIO2005". En: BOOK OF ABSTRACTS ON 8TH INTERNATIONAL SYMPOSIUM ON TROPOSPHERIC PROFILING: INTEGRATION OF NEEDS, TECHNOLOGIES AND APPLICATIONS. pp. 195 - 195.
- 68** **Title of the work:** CALIBRATED CCD IMAGER FOR AEROSOL OPTICAL AND PHYSICAL PROPERTIES ESTIMATION
Name of the conference: EUROPEAN AEROSOL CONFERENCE (EAC 2009)
Type of event: Conference **Geographical area:** Non EU International
City of event: KARLSRUHE, GERMANY,
Date of event: 2009
ALBERTO CAZORLA CABRERA; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS; Wagener-,R.; Shields-,J.E."CALIBRATED CCD IMAGER FOR AEROSOL OPTICAL AND PHYSICAL PROPERTIES ESTIMATION". En: EUROPEAN AEROSOL CONFERENCE 2009. pp. T046A15 - T046A15.
- 69** **Title of the work:** CALIBRATION OF 1064NM-BACKSCATTER PROFILES WITH CIRRUS CLOUDS FOR A MULTIWAVELENGTH RAMAN LIDAR
Name of the conference: III REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES
Type of event: Conference **Geographical area:** National
City of event: BILBAO,
Date of event: 2009
FRANCISCO JESUS NAVAS GUZMAN; JUAN LUIS GUERRERO RASCADO; JUAN ANTONIO BRAVO ARANDA; HASSAN LYAMANI; LUCAS ALADOS ARBOLEDAS. "CALIBRATION OF 1064NM-BACKSCATTER PROFILES WITH CIRRUS CLOUDS FOR A MULTIWAVELENGTH RAMAN LIDAR". En: TERCERA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. - - -.



- 70** **Title of the work:** CALIBRATION OF 1064NM-BACKSCATTER PROFILES WITH A MULTIWAVELENGTH RAMAN LIDAR
Name of the conference: OPTOELECTRONIC TECHNIQUES FOR ENVIRONMENTAL MONITORING (3) (3.2009.BUCAREST, RUMANÍA)
Type of event: Conference **Geographical area:** Non EU International
City of event: BUCAREST, RUMANÍA,
Date of event: 2009
FRANCISCO JESUS NAVAS GUZMAN; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS. "CALIBRATION OF 1064NM-BACKSCATTER PROFILES WITH A MULTIWAVELENGTH RAMAN LIDAR". En: PAPERS IN 3RD INTERNATIONAL WORKSHOP ON OPTOELECTRONIC TECHNIQUES FOR ENVIRONMENTAL MONITORING. pp. 40 - 43.
- 71** **Title of the work:** CARACTERIZACIÓN DEL AEROSOL ATMOSFÉRICO Y GASES CONTAMINANTES EN EL AMBIENTE URBANO DE GRANADA
Name of the conference: III REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES
Type of event: Conference **Geographical area:** National
City of event: BILBAO,
Date of event: 2009
HASSAN LYAMANI; JUAN ANTONIO BRAVO ARANDA; FRANCISCO JOSE OLMO REYES; JERONIMO VIDA MANZANO; LUCAS ALADOS ARBOLEDAS. "CARACTERIZACIÓN DEL AEROSOL ATMOSFÉRICO Y GASES CONTAMINANTES EN EL AMBIENTE URBANO DE GRANADA". En: TERCERA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. - - -.
- 72** **Title of the work:** 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
Name of the conference: SPIE EUROPE REMOTE SENSING () (.2009.BERLÍN, ALEMANIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: BERLÍN, ALEMANIA,
Date of event: 2009
Papayannis-,Alexandros; Amiridis-,Vassilis; Mona-,L; Mamouri-,Rodelize-Elizabeth; Apituley-,Arnoud; LUCAS ALADOS ARBOLEDAS; Balis-,Dimitris; Chaikovskiy-,Anatoly; De Tomasi-,F.; Grigorov-,I.; Gustafsson-,Oven; Linné-,Holger; Mattis-,Ina; Mitev-,Valentin; Molero-,F.; Müller-,D.; Nicolae-,Doina; Perez-, C.; Pietruczuk-,Aleksander; Putaud-,Jean-Philippe; Ravetta-,Francois; Rizi-,Vincenzo; Schnell-,F.; Sicard-, M.; Simeonov-,Valentin; Stebel-,K.; Trickl-,Thomas; D'Amico-,G; Pappalardo-,Gelsomina; Wang-,X. "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". En: PROCEEDINGS OF SPIE REMOTE SENSING FOR AGRICULTURE, ECOSYSTEMS, AND HYDROLOGY XI. 7479, pp. 74790C-1 - 74790C-10.
- 73** **Title of the work:** EARLINET FOR LONG TERM AEROSOL OBSERVATIONS
Name of the conference: 8TH INTERNATIONAL SYMPOSIUM ON TROPOSPHERIC PROFILING: INTEGRATION OF NEEDS, TECHNOLOGIES AND APPLICATIONS () (.2009.DELFT, HOLANDA)
Type of event: Conference **Geographical area:** Non EU International
City of event: DELFT, HOLANDA,
Date of event: 2009
Pappalardo-,Gelsomina; Wandinger-,U.; Mona-,L; Hiebsch-,Anja; Mattis-,Ina; Linné-,Holger; Amodeo-,Aldo; Ansmann-,Albert; Apituley-,Arnoud; LUCAS ALADOS ARBOLEDAS; Balis-,Dimitris; Chaikovskiy-,Anatoly; Comeron-, Adolfo; D'Amico-,G; Freudenthaler-,Volker; Giunta-,Aldo; Grigorov-,I.; Papayannis-,Alexandros; Perrone-,Mr; Pietruczuk-,Aleksander; Pujadas-, Manuel; Rizi-,Vincenzo; Spinelli-,Nicola; Wiegner-,Matthias. "EARLINET FOR LONG TERM AEROSOL OBSERVATIONS". En: BOOK OF ABSTRACTS ON 8TH INTERNATIONAL SYMPOSIUM ON TROPOSPHERIC PROFILING: INTEGRATION OF NEEDS, TECHNOLOGIES AND APPLICATIONS. pp. 84 - 84.



- 74 Title of the work:** EARLINET FOR LONG TERM OBSERVATIONS OF AEROSOL OVER EUROPE
Name of the conference: EUROPEAN AEROSOL CONFERENCE (EAC 2009)
Type of event: Conference **Geographical area:** Non EU International
City of event: KARLSRUHE, GERMANY,
Date of event: 2009
Pappalardo-,Gelsomina; Wandinger-,U.; Linné-,Holger; Amodeo-,Aldo; Mona-,L; Apituley-,Arnoud; LUCAS ALADOS ARBOLEDAS; Balis-,Dimitris; Chaikovsky-,Anatoly; Comeron-, Adolfo; Freudenthaler-,Volker; Grigorov-,I.; Gustafsson-,Oven; Kinne-,S.; Nicolae-,Doina; Mattis-,I; Mitev-,Valentin; Papayannis-,Alexandros; Perrone-,Mr; Pietruczuk-,Aleksander; Pujadas-, Manuel; Putaud-,Jean-Philippe; Ravetta-,Francois; Rizi-,Vincenzo; Simeonov-,Valentin; Spinelli-,Nicola; Stebel-,K.; Trickl-,Thomas; Wiegner-,Matthias. "EARLINET FOR LONG TERM OBSERVATIONS OF AEROSOL OVER EUROPE". En: EUROPEAN AEROSOL CONFERENCE 2009. pp. T046A16 - T046A16.
- 75 Title of the work:** EARLINET FOR LONG TERM OBSERVATIONS OF ATMOSPHERIC AEROSOL
Name of the conference: OPTOELECTRONIC TECHNIQUES FOR ENVIRONMENTAL MONITORING (3) (3.2009.BUCAREST, RUMANÍA)
Type of event: Conference **Geographical area:** Non EU International
City of event: BUCAREST, RUMANÍA,
Date of event: 2009
Pappalardo-,Gelsomina; Amodeo-,Aldo; Ansmann-,Albert; Apituley-,Arnoud; LUCAS ALADOS ARBOLEDAS; Balis-,Dimitris; Böckmann-,Christine; Chaikovsky-,Anatoly; Comeron-, Adolfo; D'Amico-,G; Freudenthaler-,Volker; Grigorov-,I.; Gustafsson-,Oven; Kinne-,S.; Linné-,Holger; Mattis-,I; Mona-,L; Muller-,D; Mitev-,Valentin; Nicolae-,Doina; Papayannis-,Alexandros; Perrone-,Mr; Pietruczuk-,Aleksander; Pujadas-, Manuel; Putaud-,Jean-Philippe; Trickl-,Thomas; Wandinger-,U.; Wiegner-,Matthias. "EARLINET FOR LONG TERM OBSERVATIONS OF ATMOSPHERIC AEROSOL". En: PAPERS IN 3RD INTERNATIONAL WORKSHOP ON OPTOELECTRONIC TECHNIQUES FOR ENVIRONMENTAL MONITORING. pp. 76 - 77.
- 76 Title of the work:** EARLINET: LONG TERM OBSERVATIONS FOR AEROSOL STUDY
Name of the conference: INTERNATIONAL WORKSHOP ON: ATMOSPHERIC COMPOSITION CHANGES: CLIMATE-CHEMISTRY INTERACTIONS () (.2009.LECCE, ITALIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: LECCE, ITALIA,
Date of event: 2009
Mona-,L; Wandinger-,U.; Linné-,Holger; Amodeo-,Aldo; Apituley-,Arnoud; LUCAS ALADOS ARBOLEDAS; Balis-,Dimitris; Chaikovsky-,Anatoly; Comeron-, Adolfo; Freudenthaler-,Volker; Grigorov-,I.; Gustafsson-,Oven; Kinne-,S.; Nicolae-,Doina; Mattis-,I; Mitev-,Valentin; Papayannis-,Alexandros; Perrone-,Mr; Pietruczuk-,Aleksander; Pujadas-, Manuel; Putaud-,Jean-Philippe; Ravetta-,Francois; Rizi-,Vincenzo; Simeonov-,Valentin; Spinelli-,Nicola; Stebel-,K.; Trickl-,Thomas; Wiegner-,Matthias; Pappalardo-,Gelsomina. "EARLINET: LONG TERM OBSERVATIONS FOR AEROSOL STUDY". En: ABSTRACTS OF INTERNATIONAL WORKSHOP ON: ATMOSPHERIC COMPOSITION CHANGES: CLIMATE-CHEMISTRY INTERACTIONS. -, pp. - - -.
- 77 Title of the work:** EVALUATION OF THE ATMOSPHERIC AEROSOL EFFECT ON SOLAR IRRADIANCE FIELD
Name of the conference: III REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES
Type of event: Conference **Geographical area:** National
City of event: BILBAO,
Date of event: 2009
INMACULADA FOYO MORENO; INMACULADA ALADOS ARBOLEDAS; LUCAS ALADOS ARBOLEDAS. "EVALUATION OF THE ATMOSPHERIC AEROSOL EFFECT ON SOLAR IRRADIANCE FIELD". En: TERCERA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. - - -.



- 78** **Title of the work:** FIRST RESULTS OF AEROSOL MICROPHYSICAL PROPERTIES BY 3+2 RAMAN LIDAR AT EARLINET GRANADA STATION
Name of the conference: OPTOELECTRONIC TECHNIQUES FOR ENVIRONMENTAL MONITORING (3) (3.2009.BUCAREST, RUMANÍA)
Type of event: Conference **Geographical area:** Non EU International
City of event: BUCAREST, RUMANÍA,
Date of event: 2009
JUAN LUIS GUERRERO RASCADO; Müller-,D.; FRANCISCO JESUS NAVAS GUZMAN; DANIEL PÉREZ RAMÍREZ; LUCAS ALADOS ARBOLEDAS. "FIRST RESULTS OF AEROSOL MICROPHYSICAL PROPERTIES BY 3+2 RAMAN LIDAR AT EARLINET GRANADA STATION". En: PAPERS IN 3RD INTERNATIONAL WORKSHOP ON OPTOELECTRONIC TECHNIQUES FOR ENVIRONMENTAL MONITORING. pp. 16 - 19.
- 79** **Title of the work:** INNOVACIÓN EN LA DOCENCIA PRÁCTICA EN METEOROLGÍA Y CLIMATOLOGÍA
Name of the conference: 1ª JORNADAS ANDLUZAS DE INNOVACIÓN DOCENTE UNIVERSITARIA () (.2009.CÓRDOBA)
Type of event: Conference **Geographical area:** Regional
City of event: CÓRDOBA,
Date of event: 2009
MARÍA JESÚS ESTEBAN PARRA; ANDREW STEPHEN KOWALSKI; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "INNOVACIÓN EN LA DOCENCIA PRÁCTICA EN METEOROLGÍA Y CLIMATOLOGÍA". En: PRIMERAS JORNADAS ANDALUZAS DE INNOVACIÓN DOCENTE UNIVERSITARIA. pp. - - -.
- 80** **Title of the work:** LONG-TERM AEROSOL AND CLOUD DATABASE FROM SPACE-BORNE LIDAR AND GROUND-BASED LIDAR NETWORK OBSERVATIONS
Name of the conference: EARTHCARE WORKSHOP 2009 () (.2009.KYOTO, JAPÓN)
Type of event: Conference **Geographical area:** Non EU International
City of event: KYOTO, JAPÓN,
Date of event: 2009
Wandinger-,U.; Pappalardo-,Gelsomina; Mona-,L; Hiebsch-,Anja; Mattis-,Ina; Madonna-,Fabio; Ansmann-,Albert; Linné-,Holger; Apituley-,Arnoud; LUCAS ALADOS ARBOLEDAS; Balis-,Dimitris; Chaikovskiy-,Anatoly; D'Amico-,G; De Tomasi-,F.; Freudenthaler-,Volker; Giannakaki-,Elina; Giunta-,Aldo; Grigorov-,I.; Iarlori-,Marco; Mamouri-,Rodelize-Elizabeth; Papayannis-,Alexandros; Pietruczuk-,Aleksander; Pujadas-, Manuel; Rizi-,Vincenzo; Rocadenbosch-,F.; Spinelli-,Nicola; Wang-,X; Wiegner-,Matthias. "LONG-TERM AEROSOL AND CLOUD DATABASE FROM SPACE-BORNE LIDAR AND GROUND-BASED LIDAR NETWORK OBSERVATIONS". En: BOOK OF ABSTRACTS OF EARTHCARE WORKSHOP 2009. pp. - - -.
- 81** **Title of the work:** ON THE USE CIRRUS CLOUDS FOR ELASTIC LIDAR CALIBRATION
Name of the conference: 5TH WORKSHOP LIDAR MEASUREMENTS IN LATIN AMERICA () (.2009.BUENOS AIRES, ARGENTINA)
Type of event: Conference **Geographical area:** Non EU International
City of event: BUENOS AIRES, ARGENTINA,
Date of event: 2009
FRANCISCO JESUS NAVAS GUZMAN; JUAN LUIS GUERRERO RASCADO; JUAN ANTONIO BRAVO ARANDA; LUCAS ALADOS ARBOLEDAS. "ON THE USE CIRRUS CLOUDS FOR ELASTIC LIDAR CALIBRATION". En: PROCEEDINGS OF 5TH WORKSHOP LIDAR MEASUREMENTS IN LATIN AMERICA. pp. - - -.



- 82** **Title of the work:** QUALITY ASSURANCE AT THE EARLINET GRANADA STATION: CHARACTERIZATION OF THE OPTICAL SUBSYSTEM FOR A MULTICHANNEL RAMAN LIDAR
Name of the conference: 5TH WORKSHOP LIDAR MEASUREMENTS IN LATIN AMERICA () (.2009.BUENOS AIRES, ARGENTINA)
Type of event: Conference **Geographical area:** Non EU International
City of event: BUENOS AIRES, ARGENTINA,
Date of event: 2009
JUAN LUIS GUERRERO RASCADO; FRANCISCO JESUS NAVAS GUZMAN; JOSÉ ANTONIO DÍAZ NAVAS; Díaz-, J.A.; JUAN ANTONIO BRAVO ARANDA; LUCAS ALADOS ARBOLEDAS. "QUALITY ASSURANCE AT THE EARLINET GRANADA STATION: CHARACTERIZATION OF THE OPTICAL SUBSYSTEM FOR A MULTICHANNEL RAMAN LIDAR". En: PROCEEDINGS OF 5TH WORKSHOP LIDAR MEASUREMENTS IN LATIN AMERICA. pp. - - -.
- 83** **Title of the work:** RETRIEVAL OF THE LIDAR OVERLAP FUNCTION USING RAMAN SIGNALS
Name of the conference: 5TH WORKSHOP LIDAR MEASUREMENTS IN LATIN AMERICA () (.2009.BUENOS AIRES, ARGENTINA)
Type of event: Conference **Geographical area:** Non EU International
City of event: BUENOS AIRES, ARGENTINA,
Date of event: 2009
FRANCISCO JESUS NAVAS GUZMAN; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS. "RETRIEVAL OF THE LIDAR OVERLAP FUNCTION USING RAMAN SIGNALS". En: PROCEEDINGS OF 5TH WORKSHOP LIDAR MEASUREMENTS IN LATIN AMERICA. pp. - - -.
- 84** **Title of the work:** SPALINET: THE SPANISH AND PORTUGUESE AEROSOL LIDAR NETWORK
Name of the conference: III REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES
Type of event: Conference **Geographical area:** National
City of event: BILBAO,
Date of event: 2009
Sicard-, M.; Pujadas-, Manuel; LUCAS ALADOS ARBOLEDAS; Martinez-Lozano-, Jose Antonio; Diaz-, Juan Pedro; Gil-, M.; Wagner-, F.; Comeron-, Adolfo; Rocadenbosch-,F."SPALINET: THE SPANISH AND PORTUGUESE AEROSOL LIDAR NETWORK". En: TERCERA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. - - -.
- 85** **Title of the work:** SPALINET: THE SPANISH AND PORTUGUESE AEROSOL LIDAR NETWORK
Name of the conference: III REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES
Type of event: Conference **Geographical area:** National
City of event: BILBAO,
Date of event: 2009
Sicard-, M.; Pujadas-, Manuel; LUCAS ALADOS ARBOLEDAS; Martínez-Lozano, José Antonio; MANUEL GIL OJEDA; Requena-,A."SPALINET: THE SPANISH AND PORTUGUESE AEROSOL LIDAR NETWORK". En: TERCERA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. - - -.
- 86** **Title of the work:** THE EARLINET CONTRIBUTION TO THE EARTHCARE MISSION
Name of the conference: EARTHCARE WORKSHOP 2009 () (.2009.KYOTO, JAPÓN)
Type of event: Conference **Geographical area:** Non EU International
City of event: KYOTO, JAPÓN,
Date of event: 2009
Pappalardo-,Gelsomina; Wandinger-,U.; Mona-,L; Mattis-,I; Hiebsch-,Anja; Amodeo-,Aldo; Ansmann-,Albert; Linné-,Holger; Apituley-,Arnoud; LUCAS ALADOS ARBOLEDAS; Balis-,Dimitris; Chaikovskiy-,Anatoly; D'Amico-,G; De Tomasi-,F.; Freudenthaler-,Volker; Giannakaki-,Elina; Iarlori-,Marco; Madonna-,Fabio; Mamouri-,Rodelize-Elizabeth; Papayannis-,Alexandros; Pietruczuk-,Aleksander; Pujadas-, Manuel; Rizi-,Vincenzo; Rocadenbosch-,F.; Spinelli-,Nicola; Wang-,X; Wiegner-,Matthias. "THE EARLINET



CONTRIBUTION TO THE EARTHCARE MISSION". En: BOOK OF ABSTRACTS OF EARTHCARE WORKSHOP 2009. pp. - - -.

- 87** **Title of the work:** TWO YEARS OF CONTINUOUS MEASUREMENTS OF SURFACE AND COLUMNAR ATMOSPHERIC AEROSOL PROPERTIES AT GRANADA, AN URBAN SITE IN SPAIN
Name of the conference: EUROPEAN AEROSOL CONFERENCE (EAC 2009)
Type of event: Conference **Geographical area:** Non EU International
City of event: KARLSRUHE, GERMANY,
Date of event: 2009
HASSAN LYAMANI; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "TWO YEARS OF CONTINUOUS MEASUREMENTS OF SURFACE AND COLUMNAR ATMOSPHERIC AEROSOL PROPERTIES AT GRANADA, AN URBAN SITE IN SPAIN". En: EUROPEAN AEROSOL CONFERENCE 2009. pp. T051A12 - T051A12.
- 88** **Title of the work:** AEROSOL ABSORPTION COEFFICIENTS OVER AN URBAN AREA AS MEASURED BY TWO FILTER-BASED INSTRUMENTS
Name of the conference: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOL () (.2008.MÁLAGA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: , MÁLAGA, ESPAÑA,
Date of event: 2008
HASSAN LYAMANI; Mogo-,S.; FRANCISCO JOSE OLMO REYES; Prats-,N.; Cachorro-, V.; LUCAS ALADOS ARBOLEDAS. "AEROSOL ABSORPTION COEFFICIENTS OVER AN URBAN AREA AS MEASURED BY TWO FILTER-BASED INSTRUMENTS". En: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOL. pp. P1.8 - P1.8.
- 89** **Title of the work:** ANALYSIS OF THE OPTICAL SUBSYSTEM IN THE RAMAN LIDAR OF THE EARLINE GRANADA STATION
Name of the conference: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOL () (.2008.MÁLAGA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: , MÁLAGA, ESPAÑA,
Date of event: 2008
JUAN LUIS GUERRERO RASCADO; Díaz-, J.A.; FRANCISCO JESUS NAVAS GUZMAN; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "ANALYSIS OF THE OPTICAL SUBSYSTEM IN THE RAMAN LIDAR OF THE EARLINE GRANADA STATION". En: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOL. pp. P2.4 - P2.4.
- 90** **Title of the work:** ATMOSPHERIC AEROSOL AND PRECIPITATION CHEMISTRY DURING THE 2003 HEAT WAVE IN THE BACKGROUND EMEP STATION OF VIZNAR (GRANADA), SPAIN
Name of the conference: EUROPEAN AEROSOL CONFERENCE 2008 () (.2008.THESSALONIKI, GRECIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: THESSALONIKI, GRECIA,
Date of event: 2008
Calvo-,A.I.; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS; HASSAN LYAMANI; Castro-,A.; Fraile-,R."ATMOSPHERIC AEROSOL AND PRECIPITATION CHEMISTRY DURING THE 2003 HEAT WAVE IN THE BACKGROUND EMEP STATION OF VIZNAR (GRANADA), SPAIN". En: EUROPEAN AEROSOL CONFERENCE 2008. pp. T06A042P - T06A042P.



- 91** **Title of the work:** ATMOSPHERIC AEROSOL CHARACTERIZATION BOTH SATELITE AND GROUND BASED LIDAR: CALIPSO OVERPASSES AT GRANADA (SPAIN)
Name of the conference: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2008.MÁLAGA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: , MÁLAGA, ESPAÑA,
Date of event: 2008
JUAN LUIS GUERRERO RASCADO; FRANCISCO JESUS NAVAS GUZMAN; LUCAS ALADOS ARBOLEDAS. "ATMOSPHERIC AEROSOL CHARACTERIZATION BOTH SATELITE AND GROUND BASED LIDAR: CALIPSO OVERPASSES AT GRANADA (SPAIN)". En: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. P1.4 - P1.4.
- 92** **Title of the work:** ATMOSPHERIC AEROSOL CHARACTERIZATION DURING THE LARGE SAHARA DUST EVENTS OF 2006 AT GRANADA, SPAIN
Name of the conference: EUROPEAN AEROSOL CONFERENCE 2008 () (.2008.THESSALONIKI, GRECIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: THESSALONIKI, GRECIA,
Date of event: 2008
FRANCISCO JOSE OLMO REYES; HASSAN LYAMANI; Calvo-,A.I.; VICENTE LARA FANEGO; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS. "ATMOSPHERIC AEROSOL CHARACTERIZATION DURING THE LARGE SAHARA DUST EVENTS OF 2006 AT GRANADA, SPAIN". En: EUROPEAN AEROSOL CONFERENCE 2008. pp. T06A161P - T06A161P.
- 93** **Title of the work:** BLACK CARBON OVER AN URBAN AERA IN SE SPAIN, GRANADA, SPAIN
Name of the conference: EUROPEAN AEROSOL CONFERENCE 2008 () (.2008.THESSALONIKI, GRECIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: THESSALONIKI, GRECIA,
Date of event: 2008
HASSAN LYAMANI; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "BLACK CARBON OVER AN URBAN AERA IN SE SPAIN, GRANADA, SPAIN". En: EUROPEAN AEROSOL CONFERENCE 2008. pp. T06A253P - T06A253P.
- 94** **Title of the work:** COMPARISON BETWEEN CALIBRATION METHODS WITH MULTIFILTER ROTATING SHADOWBAND RADIOMETER (MFRSR)
Name of the conference: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2008.MÁLAGA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: , MÁLAGA, ESPAÑA,
Date of event: 2008
Castillo-,J.A.; INMACULADA FOYO MORENO; LUCAS ALADOS ARBOLEDAS. "COMPARISON BETWEEN CALIBRATION METHODS WITH MULTIFILTER ROTATING SHADOWBAND RADIOMETER (MFRSR)". En: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. P2.12 - P2.12.
- 95** **Title of the work:** COMPLEMENTARY USE OF EARLINET, CALIPSO AND AERONET OBSERVATIONS: CASE STUDY JULY 24, 2006
Name of the conference: 24TH INTERNATIONAL LASER RADAR CONFERENCE (ILRC24) () (.2008.BOULDER, USA)
Type of event: Conference **Geographical area:** Non EU International
City of event: BOULDER, USA,
Date of event: 2008



Mattis-,I; Muller-,D; Baars-,H; Tegen-,I; Meier-,Jochen; Mona-,L; Pappalardo-,Gelsomina; Amodeo-,Aldo; D'Amico-,G; Stohl-,A; Wang-,X; Molero-,F.; Sicard-, M.; Rodriguez-, A.; Baldasano-,J.M.; LUCAS ALADOS ARBOLEDAS; JUAN LUIS GUERRERO RASCADO. "COMPLEMENTARY USE OF EARLINET, CALIPSO AND AERONET OBSERVATIONS: CASE STUDY JULY 24, 2006". En: 24TH INTERNATIONAL LASER RADAR CONFERENCE (ILRC24). pp. 1 - 4.

96 Title of the work: COORDINATED LIDAR OBSERVATIONS OF SAHARAN DUST OVER EUROPE IN THE FRAME OF EARLINET-ASOS PROJECT DURING CALIPSO OVERPASSES: A CASE STUDY ANALYSIS WITH MODELING SUPPORT

Name of the conference: 3RD INTERNATIONAL WORKSHOP ON MINERAL DUST () (.2008.LEIPZIG, ALEMANIA)

Type of event: Conference

Geographical area: Non EU International

City of event: LEIPZIG, ALEMANIA,

Date of event: 2008

Papayannis-,Alexandros; Perez-, C.; Amiridis-,Vassilis; Mona-,L; Mamouri-,Rodelize-Elizabeth; Apituley-,Arnoud; LUCAS ALADOS ARBOLEDAS; Balis-,Dimitris; Giannakaki-,Elina; Chaikovsky-,Anatoly; De Tomasi-,F.; Grigorov-,I.; Gustafsson-,Oven; Linné-,Holger; Mattis-,Ina; Mitev-,Valentin; Molero-,F.; Müller-,D.; Nicolae-,Doina; Pietruczuk-,Aleksander; Putaud-,Jean-Philippe; Ravetta-,Francois; Rizi-,Vincenzo; Schnell-,F.; Sicard-, M.; Simeonov-,Valentin; Stebel-,K.; Trickl-,Thomas; D'Amico-,G; Pappalardo-,Gelsomina; Wang-,X. "COORDINATED LIDAR OBSERVATIONS OF SAHARAN DUST OVER EUROPE IN THE FRAME OF EARLINET-ASOS PROJECT DURING CALIPSO OVERPASSES: A CASE STUDY ANALYSIS WITH MODELING SUPPORT". En: 3RD INTERNATIONAL WORKSHOP ON MINERAL DUST. pp. - - -.

97 Title of the work: DETERMINATION OF THE OVERLAP FUNCTION WITH RAMAN LIDAR

Name of the conference: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOL () (.2008.MÁLAGA, ESPAÑA)

Type of event: Conference

Geographical area: National

City of event: , MÁLAGA, ESPAÑA,

Date of event: 2008

FRANCISCO JESUS NAVAS GUZMAN; JUAN LUIS GUERRERO RASCADO; DANIEL PÉREZ RAMÍREZ; LUCAS ALADOS ARBOLEDAS. "DETERMINATION OF THE OVERLAP FUNCTION WITH RAMAN LIDAR". En: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOL. pp. P2.5 - P2.5.

98 Title of the work: EIGHTEEN MONTHS LIDAR MEASUREMENTS IN COINCIDENCE WITH CALIPSO OVERPASSES AT GRANADA, SPAIN

Name of the conference: EUROPEAN AEROSOL CONFERENCE 2008 () (.2008.THESSALONIKI, GRECIA)

Type of event: Conference

Geographical area: Non EU International

City of event: THESSALONIKI, GRECIA,

Date of event: 2008

JUAN LUIS GUERRERO RASCADO; FRANCISCO JESUS NAVAS GUZMAN; LUCAS ALADOS ARBOLEDAS. "EIGHTEEN MONTHS LIDAR MEASUREMENTS IN COINCIDENCE WITH CALIPSO OVERPASSES AT GRANADA, SPAIN". En: EUROPEAN AEROSOL CONFERENCE 2008. pp. T06A166P - T06A166P.

99 Title of the work: ESTUDIO DE CALIDAD DEL AIRE EN LA CIUDAD DE GRANADA

Name of the conference: CONGRESO NACIONAL DEL MEDIO AMBIENTE () (.2008.MADRID)

Type of event: Conference

Geographical area: National

City of event: MADRID,

Date of event: 2008



HASSAN LYAMANI; FRANCISCO JOSE OLMO REYES; INMACULADA FOYO MORENO; LUCAS ALADOS ARBOLEDAS; Muñoz-,F. "ESTUDIO DE CALIDAD DEL AIRE EN LA CIUDAD DE GRANADA". En: CONGRESO NACIONAL DEL MEDIO AMBIENTE. pp. - - -.

- 100** **Title of the work:** FIVE YEARS OF ATMOSPHERIC AEROSOL COLUMNAR PROPERTIES MEASURED AT GRANADA, SPAIN
Name of the conference: EUROPEAN AEROSOL CONFERENCE 2008 () (.2008.THESSALONIKI, GRECIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: THESSALONIKI, GRECIA,
Date of event: 2008
LUCAS ALADOS ARBOLEDAS; HASSAN LYAMANI; JUAN LUIS GUERRERO RASCADO; FRANCISCO JOSE OLMO REYES. "FIVE YEARS OF ATMOSPHERIC AEROSOL COLUMNAR PROPERTIES MEASURED AT GRANADA, SPAIN". En: EUROPEAN AEROSOL CONFERENCE 2008. pp. T06A149P - T06A149P.
- 101** **Title of the work:** GROUND-BASED SKY IMAGERY FOR AEROSOL OPTICAL DEPTH ESTIMATION
Name of the conference: EUROPEAN AEROSOL CONFERENCE 2008 () (.2008.THESSALONIKI, GRECIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: THESSALONIKI, GRECIA,
Date of event: 2008
ALBERTO CAZORLA CABRERA; Shields-,J.E.; Karr-,M.E.; Burden-,A.; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "GROUND-BASED SKY IMAGERY FOR AEROSOL OPTICAL DEPTH ESTIMATION". En: EUROPEAN AEROSOL CONFERENCE 2008. pp. T06A142P - T06A142P.
- 102** **Title of the work:** INTER-COMPARATION OF TWO OPTICAL MEASUREMENT METHODS FOR AEROSOL ABSORTION COEFFICIENT IN THE URBAN ENVIRONMENT
Name of the conference: EUROPEAN AEROSOL CONFERENCE 2008 () (.2008.THESSALONIKI, GRECIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: THESSALONIKI, GRECIA,
Date of event: 2008
HASSAN LYAMANI; Mogo-,S.; FRANCISCO JOSE OLMO REYES; Prats-,N.; Cachorro-, V.; LUCAS ALADOS ARBOLEDAS. "INTER-COMPARATION OF TWO OPTICAL MEASUREMENT METHODS FOR AEROSOL ABSORTION COEFFICIENT IN THE URBAN ENVIRONMENT". En: EUROPEAN AEROSOL CONFERENCE 2008. pp. T06A132P - T06A132P.
- 103** **Title of the work:** INTRODUCTION TO THE GFAT (ATMOSPHERIC PHYSICS GROUP)
Name of the conference: SUMMER SCHOOL IN FLUX MEASUREMENTS AND ADVANCE MODELLING (2) (2.2008.BOULDER, COLORADO, ESTADOS UNIDOS)
Type of event: Conference **Geographical area:** Non EU International
City of event: BOULDER, COLORADO, ESTADOS UNIDOS,
Date of event: 2008
BORJA RUIZ REVERTER; ANDREW STEPHEN KOWALSKI; PENELOPE SERRANO ORTIZ; LUCAS ALADOS ARBOLEDAS.
- 104** **Title of the work:** MONITORING THE DAILY EVOLUTION OF THE ATMOSPHERIC AEROSOL IN AN URBAN ENVIRONMENT BY MEANS OF REMOTE SENSING AND IN-SITU METHODOLOGIES
Name of the conference: EUROPEAN AEROSOL CONFERENCE 2008 () (.2008.THESSALONIKI, GRECIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: THESSALONIKI, GRECIA,



Date of event: 2008

LUCAS ALADOS ARBOLEDAS; JUAN LUIS GUERRERO RASCADO; FRANCISCO JESUS NAVAS GUZMAN; DANIEL PÉREZ RAMÍREZ; HASSAN LYAMANI; FRANCISCO JOSE OLMO REYES. "MONITORING THE DAILY EVOLUTION OF THE ATMOSPHERIC AEROSOL IN AN URBAN ENVIRONMENT BY MEANS OF REMOTE SENSING AND IN-SITU METHODOLOGIES". En: EUROPEAN AEROSOL CONFERENCE 2008. pp. T06A165P - T06A165P.

105 Title of the work: MULTI-INSTRUMENTAL APPROACH FOR THE MONITORING OF SAHARAN OUTBREAKS.

Name of the conference: 3RD INTERNATIONAL WORKSHOP ON MINERAL DUST () (.2008.LEIPZIG, ALEMANIA)

Type of event: Conference

Geographical area: Non EU International

City of event: LEIPZIG, ALEMANIA,

Date of event: 2008

LUCAS ALADOS ARBOLEDAS; JUAN LUIS GUERRERO RASCADO; HASSAN LYAMANI; DANIEL PÉREZ RAMÍREZ; FRANCISCO JESUS NAVAS GUZMAN; FRANCISCO JOSE OLMO REYES. "MULTI-INSTRUMENTAL APPROACH FOR THE MONITORING OF SAHARAN OUTBREAKS.". En: 3RD INTERNATIONAL WORKSHOP ON MINERAL DUST. pp. P5-1 - P5-1.

106 Title of the work: ON THE VARIABILITY OF BLACK CARBON AEROSOL OVER GRANADA

Name of the conference: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2008.MÁLAGA, ESPAÑA)

Type of event: Conference

Geographical area: National

City of event: , MÁLAGA, ESPAÑA,

Date of event: 2008

HASSAN LYAMANI; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "ON THE VARIABILITY OF BLACK CARBON AEROSOL OVER GRANADA". En: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. P1.7 - P1.7.

107 Title of the work: ONE YEAR OF PRECIPITABLE WATER VAPOUR MEASUREMENTS USING BOTH PASSIVE AND ACTIVE REMOTE SENSING

Name of the conference: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2008.MÁLAGA, ESPAÑA)

Type of event: Conference

Geographical area: National

City of event: , MÁLAGA, ESPAÑA,

Date of event: 2008

DANIEL PÉREZ RAMÍREZ; FRANCISCO JESUS NAVAS GUZMAN; JUAN LUIS GUERRERO RASCADO; FRANCISCO JOSE OLMO REYES; HASSAN LYAMANI; LUCAS ALADOS ARBOLEDAS. "ONE YEAR OF PRECIPITABLE WATER VAPOUR MEASUREMENTS USING BOTH PASSIVE AND ACTIVE REMOTE SENSING". En: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. P2.11 - P2.11.

108 Title of the work: OVERLAP CORRECTION TECHNIQUE FOR RAMAN LIDAR

Name of the conference: EUROPEAN AEROSOL CONFERENCE 2008 () (.2008.THESSALONIKI, GRECIA)

Type of event: Conference

Geographical area: Non EU International

City of event: THESSALONIKI, GRECIA,

Date of event: 2008

FRANCISCO JESUS NAVAS GUZMAN; JUAN LUIS GUERRERO RASCADO; DANIEL PÉREZ RAMÍREZ; LUCAS ALADOS ARBOLEDAS. "OVERLAP CORRECTION TECHNIQUE FOR RAMAN LIDAR". En: EUROPEAN AEROSOL CONFERENCE 2008. pp. T00A001L - T00A001L.



- 109 Title of the work:** PRECIPITABLE WATER VAPOUR CHARACTERISATION WITH PASSIVE AND ACTIVE REMOTE SENSING
Name of the conference: EUROPEAN AEROSOL CONFERENCE 2008 () (.2008.THESSALONIKI, GRECIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: THESSALONIKI, GRECIA,
Date of event: 2008
DANIEL PÉREZ RAMÍREZ; FRANCISCO JESUS NAVAS GUZMAN; JUAN LUIS GUERRERO RASCADO; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "PRECIPITABLE WATER VAPOUR CHARACTERISATION WITH PASSIVE AND ACTIVE REMOTE SENSING". En: EUROPEAN AEROSOL CONFERENCE 2008. pp. T06A167P - T06A167P.
- 110 Title of the work:** PROPERTIES OF AIR POLLUTANT RECIRCULATION FROM AIRBORNE AND GROUND-BASED IN SITU MEASUREMENTS PERFORMED DURING DAMOCLES CAMPAIGN
Name of the conference: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOL () (.2008.MÁLAGA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: , MÁLAGA, ESPAÑA,
Date of event: 2008
MARÍA DEL MAR SORRIBAS PANERO; Andrey-, J.; Adame-,J.A.; Prats-,N.; MARÍA DE LAS MERCEDES FERNÁNDEZ LEÓN; Cachorro-, V.; MANUEL GIL OJEDA; LUCAS ALADOS ARBOLEDAS; BENITO A. DE LA MORENA CARRETERO; Martínez-Lozano, José Antonio. "PROPERTIES OF AIR POLLUTANT RECIRCULATION FROM AIRBORNE AND GROUND-BASED IN SITU MEASUREMENTS PERFORMED DURING DAMOCLES CAMPAIGN". En: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOL. pp. P1.2 - P1.2.
- 111 Title of the work:** REMOTE SENSING OF AEROSOLS
Name of the conference: GAEF MEETING () (.2008.KARLSRUHE, ALEMANIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: KARLSRUHE, ALEMANIA,
Date of event: 2008
LUCAS ALADOS ARBOLEDAS. "REMOTE SENSING OF AEROSOLS". En: LIGHT SCATTERING: MIE AND MORE- COMMEMORATION 100 YEARS. pp. 1 - 4.
- 112 Title of the work:** SAHARAN DUST RADIATIVE PROPERTIES ASSESSED BY INVERSION OF SKY RADIANCES MEASURED IN THE PRINCIPAL PLANE AT GRANADA, SPAIN
Name of the conference: 3RD INTERNATIONAL WORKSHOP ON MINERAL DUST () (.2008.LEIPZIG, ALEMANIA)
Type of event: Conference **Geographical area:** Non EU International
City of event: LEIPZIG, ALEMANIA,
Date of event: 2008
FRANCISCO JOSE OLMO REYES; Lara-,Victor Hugo; HASSAN LYAMANI; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS. "SAHARAN DUST RADIATIVE PROPERTIES ASSESSED BY INVERSION OF SKY RADIANCES MEASURED IN THE PRINCIPAL PLANE AT GRANADA, SPAIN". En: 3RD INTERNATIONAL WORKSHOP ON MINERAL DUST. pp. P3-23 - P3-23.
- 113 Title of the work:** SETTING UP A CALIBRATED SKY IMAGER FRO AERSOL PROPERTIES ESTIMATION
Name of the conference: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOL () (.2008.MÁLAGA, ESPAÑA)
Type of event: Conference **Geographical area:** National
City of event: , MÁLAGA, ESPAÑA,
Date of event: 2008



ALBERTO CAZORLA CABRERA; Shields-,J.E.; Karr-,M.E.; Burden-,A.; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS. "SETTING UP A CALIBRATED SKY IMAGER FRO AERSOL PROPERTIES ESTIMATION". En: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. P2.10 - P2.10.

114 Title of the work: SPALINET: LA RED ESPAÑOLA DE LIDARES DE AEROSOLES

Name of the conference: CONGRESO NACIONAL DEL MEDIO AMBIENTE () (.2008.MADRID)

Type of event: Conference

Geographical area: National

City of event: MADRID,

Date of event: 2008

Sicard-, M.; Rocadenbosch-,F.; Comeron-, Adolfo; Pujadas-, Manuel; Molero-,F.; LUCAS ALADOS ARBOLEDAS; JUAN LUIS GUERRERO RASCADO; Martinez-Lozano-, Jose Antonio; Pedrós-,Roberto; Diaz-,Juan Pedro; Exposito-,Francisco José; Gil-, M.; CARMEN CÓRDOBA JABONERO. "SPALINET: LA RED ESPAÑOLA DE LIDARES DE AEROSOLES". En: CONGRESO NACIONAL DEL MEDIO AMBIENTE. pp. 8 - 18.

115 Title of the work: SPALINET: THE SPANISH LIDAR NETWORK. RESULTS FROM THE FIRST YEAR: SYSTEM INTERCOMPARISON

Name of the conference: 24TH INTERNATIONAL LASER RADAR CONFERENCE, (EDS.), (2008) () (.2008.BOULDER, E.E.U.U)

Type of event: Conference

Geographical area: Non EU International

City of event: BOULDER, E.E.U.U,

Date of event: 2008

Sicard-, M.; Comeron-, Adolfo; Molero-,F.; JUAN LUIS GUERRERO RASCADO; Pedrós-,Roberto; Exposito-,Francisco José; CARMEN CÓRDOBA JABONERO; Rocadenbosch-,F.; Pujadas-, Manuel; LUCAS ALADOS ARBOLEDAS. "SPALINET: THE SPANISH LIDAR NETWORK. RESULTS FROM THE FIRST YEAR: SYSTEM INTERCOMPARISON". En: PROC. ILRC VOL. 2, PP. 738-741, ORGANIZING COMMITTEE OF THE 24TH INTERNATIONAL LASER RADAR CONFERENCE, (EDS.), (2008). pp. 738 - 741. ISBN 978-0-615-21489-4

116 Title of the work: VALIDATION OF ALGORITHMS TO OBTAIN VERTICAL-RESOLVED AEROSOL OPTICAL PROPERTIES FROM RAMAN SIGNALS IN THE FRAMEWORK OF EARLINET

Name of the conference: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES () (.2008.MÁLAGA, ESPAÑA)

Type of event: Conference

Geographical area: National

City of event: , MÁLAGA, ESPAÑA,

Date of event: 2008

JUAN LUIS GUERRERO RASCADO; FRANCISCO JESUS NAVAS GUZMAN; LUCAS ALADOS ARBOLEDAS. "VALIDATION OF ALGORITHMS TO OBTAIN VERTICAL-RESOLVED AEROSOL OPTICAL PROPERTIES FROM RAMAN SIGNALS IN THE FRAMEWORK OF EARLINET". En: SEGUNDA REUNIÓN ESPAÑOLA DE CIENCIA Y TECNOLOGÍA DE AEROSOLES. pp. P1.5 - P1.5.

117 Title of the work: VERTICAL AND HORIZONTAL AEROSOL SIZE DISTRIBUTION RETRIEVED BY CONTRAST MEASUREMENT

Name of the conference: EUROPEAN AEROSOL CONFERENCE 2008 () (.2008.THESSALONIKI, GRECIA)

Type of event: Conference

Geographical area: Non EU International

City of event: THESSALONIKI, GRECIA,

Date of event: 2008

Calvillo-,M.R.; Esposito-,F; Pavese-,Giulia; Restieri-,R.; LUCAS ALADOS ARBOLEDAS. "VERTICAL AND HORIZONTAL AEROSOL SIZE DISTRIBUTION RETRIEVED BY CONTRAST MEASUREMENT". En: EUROPEAN AEROSOL CONFERENCE 2008. pp. T06A154P - T06A154P.

- 118** **Title of the work:** ALGORITHM AND SOFTWARE FOR THE RETRIEVAL OF VERTICAL AEROSOL PROPERTIES USING COMBINED LIDAR/RADIOMETER DATA: DISSEMINATION IN EARLINET NETWORK
Name of the conference: 26 th International Laser Radar Conference
Type of event: Conference
City of event: Porto Heli, Greece,
Chaikovskiy, Anatoli; Dubovik, Oleg; Goulob, Philipper; Tanré, Didier; Pappalardo, Gelsomina; Wandinger, Ulla; Chaikovskaya, Ludmila; Denisov, Sergei; Grudo, Yan; Lopatsin, Anton; Karol, Yana; Lapyonok, Tatyana; Korol, Michail; Osipenko, Fiodor; Savitsski, Dzmitry; Slesar, Alexander; Apituley, Arnaud; LUCAS ALADOS ARBOLEDAS; Binietoglou, Ioannis; Comerón, Adolfo; Panayotis, Kokkalis; MARÍA JOSÉ GRANADOS MUÑOZ; Papayanis, Alexandros; Perrone, Maria Rita; Pietruczuk, Aleksander; De Tomasi, Ferdinando; Wagner, Janet; Wang, Xuan.
- 119** **Title of the work:** Aerosol Scattering and Absorption Angström Exponents during desert dust events over Granada
Name of the conference: European Aerosol Conference 2012
Type of event: Conference
City of event: Granada,
ANTONIO VALENZUELA GUTIERREZ; FRANCISCO JOSE OLMO REYES; HASSAN LYAMANI; MANUEL ANTON MARTÍNEZ; ARTURO GABRIEL QUIRANTES SIERRA; LUCAS ALADOS ARBOLEDAS.
- 120** **Title of the work:** An international network of ground-based microwave radiometers for the assimilation of temperature and humidity profiles into NWP models
Name of the conference: 9th International Symposium on Tropospheric Profiling
Type of event: Conference
City of event: L'AQUILA, ITALIA,
Cimini, D; Caumont, O; Löhnert, U; LUCAS ALADOS ARBOLEDAS; Bleisch, R; JESÚS FERNÁNDEZ GÁLVEZ; Huet, T; Ferrario, M; Madonna, F; Maier, M; Nasir, F; Pace, G; Posada, R.
- 121** **Title of the work:** An update on ChArMEx (the Chemistry-Aerosol Mediterranean Experiment) activities and plans for aerosol studies in the Mediterranean region
Name of the conference: EUROPEAN AEROSOL CONFERENCE (EAC-2012)
Type of event: Conference
City of event: Parque de las Ciencias, . UNIVERSIDAD DE GRANADA. GRANADA,
Dulac, F.; Team, Charmex; LUCAS ALADOS ARBOLEDAS; JUAN ANTONIO BRAVO ARANDA; MARÍA JOSÉ GRANADOS MUÑOZ; JUAN LUIS GUERRERO RASCADO; FRANCISCO JESUS NAVAS GUZMAN.
- 122** **Title of the work:** CLIMARENO 2011 campaign: airborne characterization of a Saharan dust intrusion over the Iberian Peninsula
Name of the conference: EUROPEAN AEROSOL CONFERENCE (EAC-2012)
Type of event: Conference
City of event: Parque de las Ciencias, . UNIVERSIDAD DE GRANADA. GRANADA,
Andrey, Javier; JESÚS FERNÁNDEZ GÁLVEZ; JUAN LUIS GUERRERO RASCADO; MARÍA DEL MAR SORRIBAS PANERO; GLORIA TITOS VELA; Corrales-sierra, A.; Gil-ojeda, M.; Cachorro, Victoria; BENITO A. DE LA MORENA CARRETERO; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS.
- 123** **Title of the work:** CLIMARENO campaign 2011: Aerosol optical properties characterization from ground-based instrumentation
Name of the conference: European Aerosol Conference 2012
Type of event: Conference
City of event: Granada,



JUAN ANTONIO BRAVO ARANDA; FRANCISCO JESUS NAVAS GUZMAN; Andrey, Javier; MARÍA JOSÉ GRANADOS MUÑOZ; JUAN LUIS GUERRERO RASCADO; Gil, Manuel; HASSAN LYAMANI; ANTONIO VALENZUELA GUTIERREZ; GLORIA TITOS VELA; JESÚS FERNÁNDEZ GÁLVEZ; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS.

- 124** **Title of the work:** CLIMARENO-GRA 2011 campaign: retrieval of vertically-resolved aerosol microphysical properties by lidar at daytime
Name of the conference: EUROPEAN AEROSOL CONFERENCE (EAC-2012)
Type of event: Conference
City of event: Parque de las Ciencias, . UNIVERSIDAD DE GRANADA. GRANADA,
JUAN LUIS GUERRERO RASCADO; MARÍA JOSÉ GRANADOS MUÑOZ; FRANCISCO JESUS NAVAS GUZMAN; JUAN ANTONIO BRAVO ARANDA; FRANCISCO JOSE OLMO REYES; Andrey, Javier; Gil, M.; Chaikovsky, Anatoli; Wandinger, Ulla; LUCAS ALADOS ARBOLEDAS.
- 125** **Title of the work:** Calibration and intercomparison results in the Spanish network on environmental DMAs
Name of the conference: European Aerosol Conference
Type of event: Conference
City of event: Granada, España,
Gómez-moreno, Francisco; Artiñano, Begoña; Juncal-bello, Vanesa; Piñero-iglesias, M; López-mahía, P; Pérez, Noemí; Pey, Jorge; JOSÉ ANDRÉS ALASTUEY URÓS; BENITO A. DE LA MORENA CARRETERO; García, Isabel; SERGIO RODRIGUEZ GONZALEZ; MARÍA DEL MAR SORRIBAS PANERO; GLORIA TITOS VELA; HASSAN LYAMANI; LUCAS ALADOS ARBOLEDAS.
- 126** **Title of the work:** Combined observations with multi-wavelength Raman lidars and sun photometers on the southern Iberian Peninsula
Name of the conference: EUROPEAN AEROSOL CONFERENCE (EAC-2012)
Type of event: Conference
City of event: Parque de las Ciencias, . UNIVERSIDAD DE GRANADA. GRANADA,
Preißler, Jana; JUAN ANTONIO BRAVO ARANDA; Wagner, Frank; MARÍA JOSÉ GRANADOS MUÑOZ; FRANCISCO JESUS NAVAS GUZMAN; JUAN LUIS GUERRERO RASCADO; HASSAN LYAMANI; LUCAS ALADOS ARBOLEDAS.
- 127** **Title of the work:** Effects of desert dust aerosols on surface UV radiation from OMI satellite instrument at Granada (Spain)
Name of the conference: European Aerosol Conference 2012
Type of event: Conference
City of event: Granada,
MANUEL ANTON MARTÍNEZ; ANTONIO VALENZUELA GUTIERREZ; Roman, Roberto; HASSAN LYAMANI; Krotkov, N; Arola, A; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS.
- 128** **Title of the work:** Estudio de calidad del aire en la ciudad de Granada
Name of the conference: CONAMA 9
Type of event: Conference
City of event: - MADRID, ESPAÑA,
JERONIMO VIDA MANZANO; HASSAN LYAMANI; FRANCISCO JOSE OLMO REYES; INMACULADA FOYO MORENO; LUCAS ALADOS ARBOLEDAS; Muñoz-collado, Francisco De Asís.
- 129** **Title of the work:** Experimental study of the surface shortwave aerosol forcing efficiency
Name of the conference: European Aerosol Conference 2012
Type of event: Conference
Anastasio, J.I.; INMACULADA FOYO MORENO; ANTONIO VALENZUELA GUTIERREZ; MANUEL ANTON MARTÍNEZ; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS.



- 130 Title of the work:** Levels of carbonaceous aerosols in remote, rural, urban and industrial sites of Spain
Name of the conference: European Aerosol Conference
Type of event: Conference
City of event: Granada, España,
XAVIER QUEROL CARCELLER; JOSÉ ANDRÉS ALASTUEY URÓS; MARIA DEL MAR VIANA RODRIGUEZ; Moreno, Teresa; Reche, Cristina; Minguillon, María Cruz; Ripoll, Anna; Pandolfi, Marco; Amato, Fulvio; Pérez, Noemí; Pey, Jorge; Cusack, Michael; Vázquez, Rebeca; De La Rosa, Jesús; Sánchez-de La Campa, Ana; SERGIO RODRIGUEZ GONZALEZ; Pío, C.; LUCAS ALADOS ARBOLEDAS; GLORIA TITOS VELA; Artiñano, Begoña; Salvador, Pedro; García-dos Santos, S.; Fernández-patier, R.
- 131 Title of the work:** Monitoring of ultrafine particles at an urban environment in southern Europe
Name of the conference: European Aerosol Conference
Type of event: Conference
City of event: Granada, España,
GLORIA TITOS VELA; HASSAN LYAMANI; MARÍA DEL MAR SORRIBAS PANERO; INMACULADA FOYO MORENO; LUCAS ALADOS ARBOLEDAS.
- 132 Title of the work:** Optical Properties of Free Tropospheric Aerosol from Multi-wavelength Raman Lidars over the Southern Iberian Peninsula
Name of the conference: 9th International Symposium on Tropospheric Profiling
Type of event: Conference
City of event: L'Alquila, Italia,
Preißler, Jana; JUAN ANTONIO BRAVO ARANDA; Wagner, Frank; MARÍA JOSÉ GRANADOS MUÑOZ; FRANCISCO JESUS NAVAS GUZMAN; JUAN LUIS GUERRERO RASCADO; HASSAN LYAMANI; LUCAS ALADOS ARBOLEDAS.
- 133 Title of the work:** Optical and Microphysical properties from Raman lidar and depolarization data
Name of the conference: European Aerosol Conference
Type of event: Conference
City of event: Granada (España),
FRANCISCO JESUS NAVAS GUZMAN; Osterloh, L.; Böckmann, C.; MARÍA JOSÉ GRANADOS MUÑOZ; LUCAS ALADOS ARBOLEDAS.
- 134 Title of the work:** Optical and microphysical characterization of volcanic sulphate particles in the lower troposphere by Raman lidar
Name of the conference: European Aerosol Conference 2012
Type of event: Conference
City of event: Granada (España),
FRANCISCO JESUS NAVAS GUZMAN; Müller, D.; JUAN ANTONIO BRAVO ARANDA; DANIEL PÉREZ RAMÍREZ; FRANCISCO JOSE OLMO REYES; JUAN LUIS GUERRERO RASCADO; Wandinger, U.; LUCAS ALADOS ARBOLEDAS.
- 135 Title of the work:** Retrieval of aerosol microphysical properties profiles by combination of Lidar and sun photometer measurements. Application to mineral dust and volcanic aerosols.
Name of the conference: European Aerosol Conference 2012
Type of event: Conference
City of event: Granada,
MARÍA JOSÉ GRANADOS MUÑOZ; JUAN ANTONIO BRAVO ARANDA; FRANCISCO JESUS NAVAS GUZMAN; JUAN LUIS GUERRERO RASCADO; HASSAN LYAMANI; Chaikovsky, Anatoli; Wagner, Janet; Wandinger, Ulla; FRANCISCO JOSE OLMO REYES; LUCAS ALADOS ARBOLEDAS.



- 136** **Title of the work:** Searching the relationship between PM10 and MODIS aerosol optical depth at Granada (Spain): urban location and background EMEP station
Name of the conference: EUROPEAN AEROSOL CONFERENCE (EAC-2012)
Type of event: Conference
City of event: Parque de las Ciencias, . UNIVERSIDAD DE GRANADA. GRANADA, Calvo, Ana Isabel; JUAN LUIS GUERRERO RASCADO; LUCAS ALADOS ARBOLEDAS; FRANCISCO JOSE OLMO REYES.
- 137** **Title of the work:** Source apportionment of ambient PM10-1 and PM1 in Granada
Name of the conference: European Aerosol Conference
Type of event: Conference
City of event: Granada, España, GLORIA TITOS VELA; HASSAN LYAMANI; Alastuey, Andrés; Pandolfi, Marco; JUAN ANTONIO BRAVO ARANDA; LUCAS ALADOS ARBOLEDAS.
- 138** **Title of the work:** Towards a remote sensing tool for aerosol hygroscopicity studies combining lidar and passive microwave radiometry
Name of the conference: European Aerosol Conference
Type of event: Conference **Geographical area:** Others
City of event: Granada (España), FRANCISCO JESUS NAVAS GUZMAN; JUAN ANTONIO BRAVO ARANDA; MARÍA JOSÉ GRANADOS MUÑOZ; JUAN LUIS GUERRERO RASCADO; JESÚS FERNÁNDEZ GÁLVEZ; Fernández, A. J.; LUCAS ALADOS ARBOLEDAS.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Miembro del Comité Editorial
Affiliation entity: Remote Sensing
City affiliation entity: Basel, Switzerland
Start date: 01/06/2019
- 2** **Committee title:** Editor Asociado de la Atmospheric Research
Geographical area: Non EU International
Affiliation entity: Atmospheric Research **Type of entity:** Associations and Groups
Start date: 2010
- 3** **Committee title:** Miembro del Consejo Editorial
Affiliation entity: AEROSOL AND AIR QUALITY RESEARCH
Start date: 01/01/2009
- 4** **Committee title:** Miembro del Board of Meeting Association for Aerosol Research
Geographical area: Non EU International
Affiliation entity: Association for Aerosol Research **Type of entity:** Associations and Groups
Start date: 1999
- 5** **Committee title:** Miembro del Working Group Atmospheric Aerosol de la European Aerosol Association (EAA)
Geographical area: Non EU International



Affiliation entity: European Aerosol Association (EAA)

Type of entity: Associations and Groups

Organization of R&D activities

- Title of the activity:** European Aerosol Conference
Type of activity: Congreso
City of event: Granada, Spain
Convening entity: Universidad de Granada
Type of participation: Organiser
N° assistants: 800
Start-End date: 02/09/2012 - 09/09/2012

Geographical area: Non EU International
Type of entity: University
- Title of the activity:** Reunión Española de Ciencia y Tecnología del Aerosol
Type of activity: Congreso
Convening entity: Universidad de Granada
City convening entity: Granada, Andalusia, Spain
Type of participation: Comité Científico
Start-End date: 28/06/2010 - 30/10/2010

Geographical area: National
Type of entity: University
- Title of the activity:** JORNADAS TEÓRICO PRÁCTICAS SOBRE LA MODELIZACIÓN Y MEDIDA DE LA RADIACIÓN UV
Type of activity: Jornadas
Type of participation: Organiser
Start-End date: 2002 - 2002

Geographical area: Non EU International

R&D management

- Name of the activity:** Gestor del Programa de Atmósfera y Cambio Climático
Type of management: Management of R&D&I actions and projects
Performed tasks: Gestión de evaluación de proyectos del Plan Nacional de Investigación
Entity: Agencia Española de Investigación
Start date: 26/01/2017
- Name of the activity:** Asociación Española de Ciencia y Tecnología del Aerosol (AECTA)
Type of management: Management of R&D&I actions and projects
Performed tasks: Secretario
Entity: Asociación Española de Ciencia y Tecnología del Aerosol
Type of entity: Associations and Groups
Start date: 2012
- Name of the activity:** CARACTERIZACIÓN MULTIINSTRUMENTAL DEL AEROSOL ATMOSFÉRICO EN EL ENTORNO URBANO Y RURAL. IMPLICACIONES SOBRE LA SALUD Y EL CLIMA. (TARTESOS) (P10-RNM-6299)
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada
Start date: 01/01/2011

Type of entity: University
Duration: 4 years



- 4** **Name of the activity:** PERFIL VERTICAL DE LAS PROPIEDADES MICROFISICAS DEL AEROSOL ATMOSFERICO. APLICACION AL ESTUDIO DE LA HIGROSCOPICIDAD.(AEROMICROPRO) (CGL2010-18782)
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 01/01/2011 **Duration:** 3 years
- 5** **Name of the activity:** EQUIPAMIENTO PARA LA CARACTERIZACIÓN DE LA ESTRUCTURA VERTICAL DE LA ATMÓSFERA MEDIANTE TÉCNICAS LÁSER Y MICROONDAS. (ref UNGR08-1E-023)
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 01/01/2010 **Duration:** 1 year
- 6** **Name of the activity:** Caracterización del aerosol atmosférico mediante teledetección activa y pasiva integrada con observaciones in situ. (CATARSIS) (CGL2007-66477-C02-01))
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 01/10/2007 **Duration:** 3 years
- 7** **Name of the activity:** Una aproximación multidisciplinar al papel del aerosol atmosférico en el Cambio Global (AEROGLOBAL) (P06-RNM-01503)
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 01/10/2007 **Duration:** 3 years
- 8** **Name of the activity:** Caracterización del aerosol atmosférico in situ e integrado en la columna atmosférica (REF UNGR05-23-009)
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 01/10/2005 **Duration:** 1 year
- 9** **Name of the activity:** Estudio del aerosol atmosférico mediante métodos ópticos (Ref. HI-2004-0219))
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 01/10/2005 **Duration:** 1 year
- 10** **Name of the activity:** Caracterización del aerosol atmosférico mediante métodos ópticos en la superficie y en la columna atmosférica (CALIPSO) (CGL2004-05984-C07-03)
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 01/10/2004 **Duration:** 3 years



- 11 Name of the activity:** Estudio del aerosol atmosférico en la Península Ibérica (Ref. HP-2003-0013)
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 01/10/2004 **Duration:** 1 year
- 12 Name of the activity:** Aerosoles transportables LIDAR FEDER (REF. UNGR03-23-032).
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 01/10/2003 **Duration:** 1 year
- 13 Name of the activity:** Efecto de los aerosoles europeos en el clima. (Ref. HU-2001-0022)
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 01/10/2002 **Duration:** 1 year
- 14 Name of the activity:** Grupo de Física de la Atmósfera. RNM119
Type of management: Group management
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 2002
Geographical area: Regional
- 15 Name of the activity:** Espectrorradiómetro de campo en el rango ultravioleta y visible. FEDER.(UGR0023-016)
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 01/10/2001 **Duration:** 1 year
- 16 Name of the activity:** Estación receptora de Imágenes de Satélite Polares y geostacionarios. FEDER.(UGR 0023-023)
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 01/10/2001 **Duration:** 1 year
- 17 Name of the activity:** Determinación y predicción de la radiación ultravioleta solar en España. Influencia de la columna de ozono, partículas aerosoles y nubosidad. (Ref.: REN2000-0903-CO8-05 CLI).
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University
Start date: 01/12/2000 **Duration:** 3 years
- 18 Name of the activity:** Modelación del balance de energía y su escalado en áreas espacialmente heterogéneas de clima semiárido. (Ref.: CLI99-0835-CO2-01).
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Universidad de Granada **Type of entity:** University



Start date: 01/12/1999

Duration: 3 years

19 Name of the activity: Aplicaciones de la teledetección desde satélite al seguimiento medioambiental en zonas de orografía compleja.)

Type of management: Management of R&D&I actions and projects

Performed tasks: Investigador Principal

Entity: Universidad de Granada

Type of entity: University

Start date: 01/12/1998

Duration: 1 year

20 Name of the activity: Efecto radiativo de los aerosoles. Estimación por métodos ópticos. (Ref. HU-1997-0019))

Type of management: Management of R&D&I actions and projects

Performed tasks: Investigador Principal

Entity: Universidad de Granada

Type of entity: University

Start date: 01/12/1998

Duration: 1 year

21 Name of the activity: Modelación del balance de energía y su escalado en áreas espacialmente heterogéneas de clima semiárido. MEHCLIMA. (Ref.: CLI98-0912-CO2-01).)

Type of management: Management of R&D&I actions and projects

Performed tasks: Investigador Principal

Entity: Universidad de Granada

Type of entity: University

Start date: 01/12/1998

Duration: 1 year

22 Name of the activity: Estudio del balance de energía en superficie en zonas áridas y semiáridas. (Ref.: CLI95-1840).)

Type of management: Management of R&D&I actions and projects

Performed tasks: Investigador Principal

Entity: Universidad de Granada

Type of entity: University

Start date: 01/12/1995

Duration: 3 years

Evaluation and revision of R&D projects and articles

1 Name of the activity: Academy of Finland

Performed tasks: Evaluador de proyectos

Entity where activity was carried out: Academy of Finland

Type of entity: Public Research Body

Geographical area: European Union

Start-End date: 2008 - 2012

2 Name of the activity: Journal of Geophysical Research. Atmospheres

Performed tasks: Revisor científico

Entity where activity was carried out: American Geophysical Union

Type of activity: Review of articles in scientific or technological journals

Geographical area: Non EU International

Start-End date: 2005 - 2010

3 Name of the activity: Agricultural and Forest Meteorology

Performed tasks: Revisor científico

Entity where activity was carried out: Elsevier

Type of entity: Business

Type of activity: Review of articles in scientific or technological journals



Geographical area: Non EU International
Start-End date: 1999 - 2010

4 Name of the activity: Amospheric Evironment

Performed tasks: Revisor científico

Entity where activity was carried out: Elsevier **Type of entity:** Business

Type of activity: Review of articles in scientific or technological journals

Geographical area: Non EU International

Start-End date: 2000 - 2009

5 Name of the activity: Amospheric Research

Performed tasks: Revisor científico

Entity where activity was carried out: Elsevier **Type of entity:** Business

Type of activity: Review of articles in scientific or technological journals

Geographical area: Non EU International

Start-End date: 2000 - 2009

6 Name of the activity: Journal of Applied Meteorology

Performed tasks: Revisor científico

Entity where activity was carried out: American Meteorological Sociey **Type of entity:** Associations and Groups

Type of activity: Review of articles in scientific or technological journals

Geographical area: Non EU International

Start-End date: 1998 - 2009

7 Name of the activity: Solar Energy

Performed tasks: Evaluador científico

Entity where activity was carried out: International Solar Energy Society **Type of entity:** Business

Type of activity: Review of articles in scientific or technological journals

Geographical area: Non EU International

Start-End date: 1995 - 2009

8 Name of the activity: A study of climatic variables atmospheric elements and standard skies and the implications to building energy, comfort and health issues

Performed tasks: Evaluador de proyectos

Entity where activity was carried out: Universidad de Hong Kong **Type of entity:** University

Geographical area: Non EU International

Start-End date: 2008 - 2008

9 Name of the activity: ENV.2008.1.2.1.5 Quantification of changing surface UV radiation levels and its impact on human health

Performed tasks: Evaluador de proyectos

Entity where activity was carried out: Unión Europea **Type of entity:** UE

Type of activity: Participation in panels

Geographical area: European Union

Start-End date: 2008 - 2008



- 10** **Name of the activity:** Journal of Photochemistry and Photobiology
Performed tasks: Revisor científico
Entity where activity was carried out: Elsevier **Type of entity:** Business
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start-End date: 2007 - 2007
- 11** **Name of the activity:** International Journal of Climatology
Performed tasks: Revisor científico
Entity where activity was carried out: Royal Meteorological Society **Type of entity:** Associations and Groups
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start-End date: 1998 - 2007
- 12** **Name of the activity:** CICYT. Programa Nacional del Clima
Performed tasks: Evaluador de proyectos
Entity where activity was carried out: Ministerio de Ciencia y Tecnología **Type of entity:** Ministerio
Type of activity: Proyectos de Investigación
Geographical area: National
Start-End date: 2001 - 2002
- 13** **Name of the activity:** Energy. The International Journal
Performed tasks: Revisor científico
Entity where activity was carried out: Elsevier **Type of entity:** Business
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start-End date: 1999 - 2002
- 14** **Name of the activity:** Deep Sea Research
Performed tasks: Revisor científico
Entity where activity was carried out: Elsevier **Type of entity:** Business
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start-End date: 2000 - 2000
- 15** **Name of the activity:** Theoretical and Applied Climatology
Performed tasks: Revisor científico
Entity where activity was carried out: Springer
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start-End date: 1998 - 2000
- 16** **Name of the activity:** Atmosphere — Open Access Journal
Performed tasks: Revisor científico
Entity where activity was carried out: MDPI
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start date: 2012



- 17 Name of the activity:** Aerosol and Air Quality Research (AAQR)
Performed tasks: Revisor científico
Entity where activity was carried out: Taiwan Association for Aerosol Research
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start date: 2009
- 18 Name of the activity:** Atmospheric Chemistry and Physics
Performed tasks: Revisor científico
Entity where activity was carried out: Copernicus **Type of entity:** Business
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start date: 2009
- 19 Name of the activity:** Atmospheric Measurement Technology
Performed tasks: Revisor científico
Entity where activity was carried out: Copernicus **Type of entity:** Business
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start date: 2009
- 20 Name of the activity:** Journal of Atmospheric and Solar-Terrestrial Physics
Performed tasks: Revisor científico
Entity where activity was carried out: Elsevier **Type of entity:** Business
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start date: 2004
- 21 Name of the activity:** Agencia Nacional de Evaluación y Prospectiva (ANEP)
Performed tasks: Evaluador de proyectos
Entity where activity was carried out: Agencia Nacional de Evaluación y Prospectiva **Type of entity:** Investigación
Type of activity: Proyectos de Investigación
Geographical area: National
Start date: 2001

Other achievements

Scientific societies and professional associations

- 1 Name of the society:** Miembro de la International Solar Energy Society
Affiliation entity: International Solar Energy Society - **Type of entity:** Associations and Groups
A Global Alliance
Start-End date: 1990 - 1999
- 2 Name of the society:** Miembro de la American Solar Energy Society
Affiliation entity: American Solar Energy Society **Type of entity:** Associations and Groups
Start-End date: 1990 - 1991



- 3** **Name of the society:** Miembro de la Junta de Gobierno de la Association for Aerosol Research
Affiliation entity: Association for Aerosol Research **Type of entity:** Associations and Groups
Start date: 2012
- 4** **Name of the society:** Miembro de la Royal Meteorological Society
Affiliation entity: Royal Meteorological Society **Type of entity:** Associations and Groups
Start date: 1998
- 5** **Name of the society:** Miembro de la Sociedad Española de Teledetección
Affiliation entity: Asociación Española de Teledetección (AET) **Type of entity:** Associations and Groups
Start date: 1996
- 6** **Name of the society:** Miembro de la American Meteorological Society
Affiliation entity: The American Meteorological Society (AMS) **Type of entity:** Business
Start date: 1994
- 7** **Name of the society:** Miembro de la National Geographic Society
Affiliation entity: National Geographic Society **Type of entity:** Associations and Groups
Start date: 1993
- 8** **Name of the society:** Miembro de la American Geophysical Union
Affiliation entity: American Geophysical Union **Type of entity:** Associations and Groups
Start date: 1990

Co-operation networks

- 1** **Name of the network:** Red Española de DMAs Ambientales
Identification of the network: REDMAAS
Start date: 2012
- 2** **Name of the network:** Aerosol, Clouds, and Trace gases Research InfraStructure Network
Identification of the network: ACTRIS
Start date: 2011
- 3** **Name of the network:** Spanish Lidar Network
Identification of the network: SPALINET
Start date: 2006
- 4** **Name of the network:** European Aerosol Research Lidar Network
Identification of the network: Earlinet
Start date: 2005
- 5** **Name of the network:** AErosol RObotic NETwork
Identification of the network: Aeronet
Start date: 2004



6 **Name of the network:** Determinación de Aerosoles por Medidas Obtenidas en Columna (LIDAR), Extinción y Suelo

Identification of the network: DAMOCLES

Start date: 2004

7 **Name of the network:** Red Ibérica de Medida Fotométrica de Aerosoles

Identification of the network: RIMA

Start date: 2004

Periods of research activity

1 **Nº of recognized periods:** 5

Certifying entity: Ministerio de Ciencia e Innovación. **Type of entity:** PUBLICA Investigación

Date of recognition: 2014

2 **Nº of recognized periods:** 5

Certifying entity: Junta de Andalucía

Type of entity: Autonómico

Date of recognition: 2008