



**Alejandro Sánchez de Miguel**

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Date of document: 21/05/2022

**v 1.4.3**

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## Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Alejandro has been involved in light pollution issues since the mid-1990s and has contributed to over 100 outreach and scientific articles. In 2003 and 2004 he published pioneering outreach articles about the light pollution problem from an environmental point of view, including the impact of LEDs. His first light pollution scientific publication presenting the first European light pollution statistics was in the proceedings of the UNESCO International Conference in Defense of the Sky and the right to see the Stars that was held in the Island of La Palma. Alejandro started his Phd with an FPU grant to study Star forming galaxies at redshift 2, but delays on the instruments production EMIR -GranTCaN and weather problems on the subsequent observations forced him to change Phd topic. He is the leader and founder of "Cities at Night," a citizen-supported project coordinated with NASA, ESA and other space agencies that use ISS night imagery to raise light pollution awareness. He earned his PhD from the Complutense University of Madrid (UCM), with a thesis titled, "Spatial, Temporal and Spectral Variation of Light Pollution and its Sources: Methodology and Results." His thesis was selected by the International Astronomical Union for a Press Release during the XXIX General Assembly in Honolulu, Hawaii.

He made a predoctoral stay at the Institute for Space Sciences of the Freie Universität Berlin and a postdoctoral stay at the CEGEP of Sherbrooke (Quebec, Canada). In 2016 Alejandro was offered a one year contract at the Astrophysics institute of Andalusia (CSIC) with the ORISON EU project launched to carry out a feasibility and design study of an astronomically-oriented balloon.

He was postdoc with the EMISS@N project at the Environment and Sustainability Institute of the University of Exeter, funded by the Natural Environment Research Council (NERC). Currently is postdoc with a Marie Curie/UNA4CAREER grant at Universidad complutense de Madrid. Also serves as scientific director of the Stars4all foundation.

He serves as a light pollution adviser to the Astrophysics institute of Andalusia (IAA) at Office of Night Sky Quality. He is an active member of several astronomical and light pollution-related organisations and research networks in Europe, including Cel Fosc (Spain's association against light pollution) and Spanish Astronomical Society (SEA), Loss of the Night network (LoNNe) and STARS4ALL. In 2014, Alejandro received an IDA Dark Sky Defender award for his leadership role in "Cities at Night" and his paper "Artificially lit surface of Earth at night increasing in radiance and extent" was selected as one of the TOP 100 highest impact in all disciplines of the world on the Altmetric index. His research about the energy consumption in street light of Spain have been used to change the policies of the Spanish government, as this research showed errors of 86% on the official statistics. He has presented his research during training workshops for the Czech government. He is currently the only European serving on the board of directors of the International Dark Sky Association. He is founder of the Stars4all Foundation and SaveStars Consulting. S.L., two pioneering organisations in light pollution management. Since 2004 until 2010 he did spend large amount of his time taking care of his father (cancer disease), 2011 his grandmother(Alzheimer) and in 2017 his daughter.

## 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.

Several quality indicators can be considered. The h index is one of the most popular although, it can vary a lot from one source to another. This corresponds to h:19 and i10:30 and since 2017 h19 i10:23 from Google Scholar. <https://scholar.google.es/citations?user=arcOI8oAAAAJ&hl=es> ResearchGate h value is h 18, but h 17 without self-citation.

According to Scopus h 15. According to Researcher id and WoS h 15. 54 citation per year according to the Web of Science.

21 publications on Q1 journals. Publications on the Web of Science 36.

Verified reviews 55.

His Phd Thesis has 53 citations.

Another indicator that is getting a lot of attention is the Alternative Metric, Altmetric, that considers the scientific production but also the media attention.

Paper "Artificially lit surface of Earth at night increasing in radiance and extent" Selected on the Top 100 world all disciplines Altmetric score of 2018 (currently 2610).

Total Altmetric score of all articles is 4380 a 02/11/2021

Total number of citations according to Google scholar is 1955. According to Scopus, 985. Web of Science 1173,

Alejandro have been invited speaker on several international and national conferences like the 2019 Light Pollution Measurements and Modelling Conference, VII International Symposium SRUK/CERU.

Also requested as speaker from the Czech government and Andalusian Government. Also, appears regularly on the Spanish and international media, like El País or CNN or La Sexta TV, as one of the world experts on light pollution.

His thesis was highlighted by the International Astronomical Union, and data from his thesis was used on the "The new world atlas of artificial night sky brightness", that was the 10th article with higher impact of all the disciplines of 2016.

He is author of two of the four last articles selected by the NASA Earth Sciences and Remote Sensing Unit, Johnson Space Center, publication list: <https://eol.jsc.nasa.gov/ESRS/PubList.htm>

Member of the International Astronomical Union, Inter-Division B-C Commission Protection of Existing and Potential Observatory Sites.



## Alejandro Sánchez de Miguel

**Surname(s):** Sánchez de Miguel  
**Name:** Alejandro  
**ORCID:** 0000-0002-5007-3799  
**ScopusID:** 55749952600  
**ResearcherID:** M-1964-2017  
**Nationality:** Spain  
**Contact aut. region/reg.:** Community of Madrid  
**Email:** alejasan@ucm.es  
**Personal web page:** <https://asanchezdemiguel.com/>

### Current professional situation

**Employing entity:** Universidad Complutense de Madrid **Type of entity:** University

**Department:** Astrofísica y CC. de la Atmosfera, Facultad de Ciencias Físicas

**Professional category:** Postdoc UNA4CAREER/Marie Curie

**Start date:** 15/11/2021

**Type of contract:** Grant-assisted student (pre or post-doctoral, others)

**Primary (UNESCO code):** 210399 - Other

**Secondary (UNESCO code):** 250616 - Remoto sensing (geology); 540300 - Human geography

**Tertiary (UNESCO code):** 220917 - Photography; 220918 - Photometry; 220920 - Radiometry

**Employing entity:** University of Exeter **Type of entity:** University

**Department:** Environment and Sustainability Institute

**Professional category:** Asociado

**Educational Management (Yes/No):** No

**Start date:** 01/08/2021

**Type of contract:** Honorífico

**Dedication regime:** Full time

**Primary (UNESCO code):** 219900 - Other astronomical specialities

**Secondary (UNESCO code):** 250616 - Remoto sensing (geology)

**Tertiary (UNESCO code):** 250900 - Meteorology

**Identify key words:** Astronomy and astrophysics; Space r&d; Aerospace industry; Sustainable development

**Employing entity:** Instituto de Astrofísica de Andalucía **Type of entity:** State agency

**Professional category:** Asesor

**Start date:** 01/01/2021

**Type of contract:** Colaborador externo

**Performed tasks:** Asesor de la Oficina de Calidad del Cielo del IAA-CSIC

**Employing entity:** Fundación Stars4all **Type of entity:** Foundation

**Professional category:** Director científico

**Start date:** 01/01/2020

**Type of entity:** Associations and Groups

**Employing entity:** International Dark Sky Association  
**Professional category:** Member of the board of directors  
**Start date:** 01/01/2017  
**Type of contract:** Statutory

### Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad Complutense de Madrid	Colaborador honorifico	01/09/2016
2	University of Exeter	Postdoc	01/08/2017
3	Instituto de Astrofísica de Andalucía	Doctor Vinculado	03/06/2020
4	Instituto de Astrofísica de Andalucía	Postdoc	01/05/2016
5	CEGEP de Sherbrooke	Visiting Researcher	01/03/2015
6	Universidad Complutense de Madrid	Becario FPU	01/08/2009
7	Agrupación Astronómica de Madrid	Delegado para el Año internacional de la Astronomía	01/02/2008
8	Agrupación Astronómica de Madrid	Vocal de Actividades	01/02/2007
9	Universidad Complutense de Madrid	Becario de Colaboración del Año internacional de la Astronomía.	06/11/2008
10	Asociación Astronomica Astrohenares	Delegado para el Año internacional de la Astronomía	01/02/2008
11	Ideotur	Monitor de Astronomía	01/07/2009
12	Asociación de Astrónomos Aficionados - UCM	Relaciones institucionales	10/12/2003
13	Asociación de Astrónomos Aficionados - UCM	Presidente	10/12/2002
14	Asociación de Astrónomos Aficionados - UCM	Presidente	10/12/2000
15	Asociación de Astrónomos Aficionados - UCM	Tesorero	10/12/1999
16	Asociación de Astrónomos Aficionados - UCM	Vocal	10/12/1998

**1** **Employing entity:** Universidad Complutense de Madrid  
**Professional category:** Colaborador honorifico  
**Start-End date:** 01/09/2016 - 14/11/2021

**2** **Employing entity:** University of Exeter  
**Professional category:** Postdoc  
**Start-End date:** 01/08/2017 - 30/07/2021

**3** **Employing entity:** Instituto de Astrofísica de Andalucía  
**Professional category:** Doctor Vinculado  
**Start-End date:** 03/06/2020 - 31/12/2020  
**Type of entity:** State agency  
**Duration:** 6 months



- 4** **Employing entity:** Instituto de Astrofísica de Andalucía  
**Professional category:** Postdoc  
**Start-End date:** 01/05/2016 - 31/07/2017  
**Type of entity:** State agency
- 5** **Employing entity:** CEGEP de Sherbrooke  
**Professional category:** Visiting Researcher  
**Start-End date:** 01/03/2015 - 20/11/2015  
**Type of entity:** University Centres and Structures and Associated Bodies
- 6** **Employing entity:** Universidad Complutense de Madrid  
**Professional category:** Becario FPU  
**Start-End date:** 01/08/2009 - 07/07/2015  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Dedication regime:** Full time  
**Primary (UNESCO code):** 219900 - Other astronomical specialities  
**Secondary (UNESCO code):** 259900 - Other Earth, Space or Environmental specialities (specify)  
**Performed tasks:** Four years on research of Star forming galaxies, maintenance of the Fireball station of the UCM Observatory, two years of research on Light pollution  
**Type of entity:** University
- 7** **Employing entity:** Agrupación Astronómica de Madrid  
**Professional category:** Delegado para el Año internacional de la Astronomía  
**Start-End date:** 01/02/2008 - 01/02/2010  
**Duration:** 2 years  
**Type of entity:** Associations and Groups
- 8** **Employing entity:** Agrupación Astronómica de Madrid  
**Professional category:** Vocal de Actividades  
**Start-End date:** 01/02/2007 - 01/02/2010  
**Duration:** 3 years  
**Type of entity:** Associations and Groups
- 9** **Employing entity:** Universidad Complutense de Madrid  
**Department:** Dep. Astrofísica y CC.d e la Atmósfera, CC. Físicas  
**Professional category:** Becario de Colaboración del Año internacional de la Astronomía.  
**Start-End date:** 06/11/2008 - 31/12/2009  
**Duration:** 1 year - 2 months  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)  
**Field of management activity:** University  
**Type of entity:** University
- 10** **Employing entity:** Asociación Astronómica Astrohenares  
**Professional category:** Delegado para el Año internacional de la Astronomía  
**Start-End date:** 01/02/2008 - 31/12/2009  
**Duration:** 1 year - 9 months  
**Type of entity:** Associations and Groups
- 11** **Employing entity:** Ideotur  
**Professional category:** Monitor de Astronomía  
**Start-End date:** 01/07/2009 - 30/07/2009  
**Type of contract:** Temporary employment contract  
**Type of entity:** Business  
**Educational Management (Yes/No):** No  
**Duration:** 1 month
- 12** **Employing entity:** Asociación de Astrónomos Aficionados - UCM  
**Professional category:** Relaciones institucionales  
**Type of entity:** Associations and Groups



- |   |  |
|---|--|
| <b>Start-End date:</b> 10/12/2003 - 10/12/2004                                | <b>Duration:</b> 1 year                        |
| <b>13</b> <b>Employing entity:</b> Asociación de Astrónomos Aficionados - UCM | <b>Type of entity:</b> Associations and Groups |
| <b>Professional category:</b> Presidente                                      |  |
| <b>Start-End date:</b> 10/12/2002 - 10/12/2003                                | <b>Duration:</b> 1 year                        |
| <b>14</b> <b>Employing entity:</b> Asociación de Astrónomos Aficionados - UCM | <b>Type of entity:</b> Associations and Groups |
| <b>Professional category:</b> Presidente                                      |  |
| <b>Start-End date:</b> 10/12/2000 - 10/12/2001                                | <b>Duration:</b> 1 year                        |
| <b>15</b> <b>Employing entity:</b> Asociación de Astrónomos Aficionados - UCM | <b>Type of entity:</b> Associations and Groups |
| <b>Professional category:</b> Tesorero  |  |
| <b>Start-End date:</b> 10/12/1999 - 10/12/2000                                | <b>Duration:</b> 1 year                        |
| <b>16</b> <b>Employing entity:</b> Asociación de Astrónomos Aficionados - UCM | <b>Type of entity:</b> Associations and Groups |
| <b>Professional category:</b> Vocal   |  |
| <b>Start-End date:</b> 10/12/1998 - 10/12/1999                                | <b>Duration:</b> 1 year                        |



## Education

### University education

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

- 1 **University degree:** Higher degree  
**Name of qualification:** Grado en CC. Físicas  
**Degree awarding entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Date of qualification:** 04/07/2013  
**Average mark:** Pass
- 2 **University degree:** Higher degree  
**Name of qualification:** Master Interuniversitario de Astrofísica UAM-UCM  
**Degree awarding entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Date of qualification:** 20/11/2008  
**Average mark:** Excellent  
**Standardised degree:** Yes

#### Doctorates

**Doctorate programme:** Programa Oficial de Doctorado en Astrofísica  
**Degree awarding entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Date of degree:** 07/07/2015

### Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1 **Training title:** Taller pipelile OSIRIS  
**Awarding entity:** Grantecan, S.A. **Type of entity:** Business  
**End date:** 21/01/2013 **Duration in hours:** 5 hours
- 2 **Training title:** TALLER DE CONSTRUCCIÓN DE TELESCOPIOS: cuatro siglos de arte y ciencia  
**City awarding entity:** Sigüenza, Community of Madrid, Spain  
**Awarding entity:** Universidad de Alcalá **Type of entity:** University  
**End date:** 16/07/2007 **Duration in hours:** 30 hours
- 3 **Type of training:** Course  
**Training title:** HISTORIA DE LA ASTRONOMÍA: de la arqueoastronomía a la era espacial  
**City awarding entity:** Sigüenza, Castile-La Mancha, Spain  
**Awarding entity:** Universidad de Alcalá **Type of entity:** University  
**End date:** 17/07/2006 **Duration in hours:** 30 hours





- 4** **Type of training:** Course  
**Training title:** ASTRONOMÍA OBSERVACIONAL: de las ondas radio a los rayos gamma  
**City awarding entity:** Sigüenza, Castile-La Mancha, Spain  
**Awarding entity:** Universidad de Alcalá **Type of entity:** University  
**End date:** 25/07/2005 **Duration in hours:** 30 hours
- 5** **Type of training:** Course  
**Training title:** ¿CÓMO SE FORMAN LAS ESTRELLAS?  
**Awarding entity:** Universidad de Alcalá **Type of entity:** University  
**Training manager:** Asunción Fuente Juan  
**End date:** 19/07/2004 **Duration in hours:** 30 hours
- 6** **Training title:** LOS AGUJEROS NEGROS: motores de actividad galáctica  
**Awarding entity:** Universidad de Alcalá **Type of entity:** University  
**End date:** 21/07/2003 **Duration in hours:** 30 hours

### Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

- 1** **Title of course/seminar:** Introduction to NASA's "Black Marble" Night Lights Data  
**Organising entity:** NASA **Type of entity:** State agency  
**Duration in hours:** 1 hour  
**Start-End date:** 03/12/2020 - 03/12/2020
- 2** **Title of course/seminar:** AstroMaster 2015 Advanced Timelapse Imaging & Processing Landscape Astrophotography  
**Goals of the course/seminar:** Advanced Timelapse Imaging & Processing  
**Organising entity:** AstroLaPalma TWAN **Type of entity:** Business  
**Duration in hours:** 60 hours  
**Start-End date:** 03/10/2015 - 08/10/2015
- 3** **Title of course/seminar:** Curso de Monitor de Tiempo Libre  
**Organising entity:** Grupo Joven **Type of entity:** Escuela de tiempo libre  
**Duration in hours:** 300 hours  
**Start-End date:** 10/10/1998 - 10/06/1999

### Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	C2	C1	C1	C1	B1



## Teaching experience

### General teaching experience

- 1** **Type of teaching:** Official teaching  
**Name of the course:** Astronomía Observacional  
**Type of teaching:** Laboratory work  
**Type of subject:** Optional  
**University degree:** Grado en Física  
**Course given:** 4º  
**Start date:** 01/10/2012  
**Entity:** Universidad Complutense de Madrid  
**Faculty, institute or centre:** CC. Físicas  
**Department:** Dep. Astrofísica y CC.d e la Atmósfera  
**End date:** 15/02/2013  
**Type of entity:** University
- 2** **Type of teaching:** Official teaching  
**Name of the course:** Laboratorio de Física General  
**Type of programme:** Bachelor's degree  
**Type of subject:** Obligatory  
**University degree:** Grado en Física  
**Course given:** 1º  
**Start date:** 03/10/2011  
**Entity:** Universidad Complutense de Madrid  
**Faculty, institute or centre:** CC. Físicas  
**Department:** Dep. Astrofísica y CC.d e la Atmósfera  
**City of entity:** Madrid, Community of Madrid, Spain  
**Subject language:** Spanish  
**Type of teaching:** Laboratory work  
**End date:** 22/02/2012  
**Type of entity:** University
- 3** **Name of the course:** Astrofísica  
**University degree:** Grado en Física  
**Start date:** 01/10/2011  
**Entity:** Universidad Complutense de Madrid  
**Faculty, institute or centre:** CC. Físicas  
**End date:** 15/02/2012  
**Type of entity:** University

### Experience supervising doctoral thesis and/or final year projects

**Project title:** Estudio de la contaminación lumínica a través de imágenes desde satélite  
**Entity:** Universidad Complutense de Madrid  
**Student:** M<sup>a</sup> Ángeles López Calluela  
**Date of reading:** 02/10/2012  
**Type of entity:** University



## Student tutorials

- 1 Name of the programme:** Master  
**Entity:** FUNDACION DE LA COMUNIDAD VALENCIANA UNIVERSIDAD INTERNACIONAL DE VALENCIA  
**Frequency of the activity:** 1
- 2 Name of the programme:** Master student  
**Entity:** Universidad Complutense de Madrid **Type of entity:** University  
**City of entity:** Macao  
**Frequency of the activity:** 1  
**Number of tutored students:** 1
- 3 Name of the programme:** Premios Escolar de Investigación  
**Entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Frequency of the activity:** 1

## Teaching experience in courses and seminars for university teacher training

- 1 Type of event:** Workshop  
**Name of the event:** Astroturismo como recurso medioambiental y turístico  
**Organising entity:** Universidad Internacional de Andalucía **Type of entity:** University  
**Hours of teaching:** 2,5  
**Teaching date:** 08/10/2020
- 2 Type of event:** Workshop  
**Name of the event:** Astroturismo como recurso medioambiental y turístico  
**Organising entity:** Junta de Andalucía **Type of entity:** Centro de Capacitación y Experimentación Forestal de Cazorla  
**Hours of teaching:** 4  
**Teaching date:** 06/10/2018
- 3 Name of the event:** LA BÓVEDA CELESTE COMO RECURSO CIENTÍFICO, CULTURAL, MEDIOAMBIENTAL Y TURÍSTICO  
**Organising entity:** Universidad Internacional Menéndez Pelayo **Type of entity:** University  
**Teaching date:** 18/09/2017
- 4 Type of event:** Workshop  
**Name of the event:** El Lado Oscuro de la Luz:Contaminación Lumínica  
**Organising entity:** Centro de Profesores y Recursos Región de Murcia **Type of entity:** University Centres and Structures and Associated Bodies  
**Hours of teaching:** 2  
**Teaching date:** 13/03/2014



- 5** **Type of event:** Workshop  
**Name of the event:** Astronomía, Calidad del Cielo nocturno y turismo astronómico  
**Organising entity:** Fundación General de la Universidad de Malaga **Type of entity:** University Centres and Structures and Associated Bodies  
**Hours of teaching:** 2  
**Teaching date:** 04/07/2013
- 6** **Type of event:** Summer course  
**Name of the event:** Programa Campus Científicos de Verano 2011  
**Organising entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Hours of teaching:** 10  
**Teaching date:** 03/07/2011  
**Type of participation:** Practices
- 7** **Type of event:** Seminar  
**Name of the event:** Curso de Formación para Profesores de la CAM para el Eclipse Anular  
**City organizing entity:** Madrid, Community of Madrid, Spain  
**Organising entity:** Asociación de Astrónomos Aficionados - UCM **Type of entity:** Associations and Groups  
**Aims of the course:** Formación en observación segura de Eclipses.  
**Target group profile:** Profesores de Primaria y Secundaria  
**Hours of teaching:** 8 **Teaching language:** Spanish  
**Teaching date:** 20/09/2005  
**Type of participation:** Participatory - others

## Scientific and technological experience

### Scientific or technological activities

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

- 1** **Name of the project:** EMISS@IN  
**Type of project:** Basic research (including archaeological digs, etc) **Geographical area:** Global  
**Degree of contribution:** Scientific coordinator  
**Entity where project took place:** University of Exeter **Type of entity:** University  
**City of entity:** Penryn, Cornwall and Isles of Scilly, United Kingdom  
**Name principal investigator (PI, Co-PI....):** Kevin J. Gaston; Jon Bennie; Alejandro Sanchez de Miguel  
**Nº of researchers:** 5 **Nª people/year:** 5  
**Funding entity or bodies:** Natural Environment Research Council **Type of entity:** Public Research Body  
**City funding entity:** United Kingdom  
**Type of participation:** Principal investigator  
**Name of the programme:** EMISS@N  
**Code according to the funding entity:** NE/P01156X/1  
**Start-End date:** 01/08/2017 - 31/07/2020



**Total amount:** 502.366 €

**Dedication regime:** Full time

**Applicant's contribution:** Co-IP Fondos en libras. £450,721

[http://gotw.nerc.ac.uk/list\\_full.asp?pcode=NE%2FP01156X%2F1&cookieConsent=A](http://gotw.nerc.ac.uk/list_full.asp?pcode=NE%2FP01156X%2F1&cookieConsent=A)

- 2** **Name of the project:** Red española de estudios sobre la contaminación lumínica  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesus Gallego Maestro; Alejandro Sánchez de Miguel  
**Type of participation:** Team member  
**Code according to the funding entity:** AYA2015-71542-REDT  
**Start-End date:** 01/12/2015 - 30/11/2017  
**Total amount:** 30.000 €
- 3** **Name of the project:** ORISON  
**Degree of contribution:** Researcher  
**Entity where project took place:** Instituto de Astrofísica de Andalucía **Type of entity:** State agency  
**Name principal investigator (PI, Co-PI....):** Jose Luis Ortiz Moreno; Alejandro Sánchez de Miguel  
**Type of participation:** Team member  
**Code according to the funding entity:** H2020-INFRA-SUPP-2015-2  
**Start-End date:** 16/04/2016 - 31/07/2017  
**Total amount:** 606.198 €  
**Dedication regime:** Full time
- 4** **Name of the project:** Proyecto Daedalus  
**Degree of contribution:** Scientific coordinator  
**Entity where project took place:** AstroInnova **Type of entity:** ONG  
**Name principal investigator (PI, Co-PI....):** Alejandro Sánchez de Miguel; Fernando Ortuño Guerrero  
**Nº of researchers:** 4  
**Type of participation:** Principal investigator  
**Start-End date:** 01/07/2010 - 01/01/2016
- 5** **Name of the project:** Astrofísica Extragaláctica de precisión: Preparando la Explotación científica de MEGARA@GTC  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Armando Gil de Paz; Alejandro Sánchez de Miguel  
**Type of participation:** Team member  
**Start-End date:** 01/01/2014 - 31/12/2015  
**Total amount:** 549.340 €  
**Applicant's contribution:** Equipo de investigación
- 6** **Name of the project:** Estudio de la Formación de las Galaxias masivas: Proyecto de Explotación de la Exploración Cosmológica SHRDS, Un ESO/GTC LARGE Program  
**Entity where project took place:** Universidad Complutense de Madrid  
**Name principal investigator (PI, Co-PI....):** Pablo G. Pérez-González; Alejandro Sánchez de Miguel  
**Type of participation:** Team member  
**Code according to the funding entity:** AYA2012-31277  
**Start-End date:** 01/01/2013 - 31/12/2015  
**Total amount:** 352.170 €



**Applicant's contribution:** Equipo de investigación

- 7** **Name of the project:** Hacia la explotación científica de Megara  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesús Gallego Maestro; Alejandro Sánchez de Miguel  
**Type of participation:** Team member  
**Code according to the funding entity:** AYA2012-30717  
**Start-End date:** 01/01/2013 - 31/12/2014
- 8** **Name of the project:** Red Española de Estudios sobre la Contaminación Lumínica  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jaime Zamorano Calvo; Alejandro Sánchez de Miguel  
**Nº of researchers:** 14  
**Code according to the funding entity:** AYA2011-15808-E  
**Start-End date:** 14/12/2012 - 31/12/2014  
**Total amount:** 8.400 €
- 9** **Name of the project:** "Exploraciones de galaxias multi-longitud de onda: estrellas, polvo y gas a diferentes desplazamientos al rojo"  
**Name principal investigator (PI, Co-PI....):** Jesús Gallego Maestro; Alejandro Sánchez de Miguel  
**Code according to the funding entity:** AYA2009-10368  
**Start-End date:** 01/01/2010 - 21/12/2013  
**Total amount:** 628.000 €

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

**Name of the project:** Cities at Night  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Name principal investigator (PI, Co-PI....):** Alejandro Sanchez de Miguel; Jaime Zamorano; Jesus Gallego; Christofer C.M. Kyba; Kevin J. Gaston; Martin Aube  
**Nº of researchers:** 20  
**Funding entity or bodies:**

Stars4all	<b>Type of entity:</b> Foundation
Celfosc	<b>Type of entity:</b> Associations and Groups
Sociedad Espanola de Astronom'ia	<b>Type of entity:</b> Associations and Groups
Savestars. S.L.	<b>Type of entity:</b> Company
F. Sanchez de Miguel	<b>Type of entity:</b> Private

**Start date:** 01/07/2014  
**Total amount:** 100.000 €

## Results

### Technological results derived from specialized and transfer activities, not included in previous sections

**1** **Description:** pyISS Software de reducción de imágenes tomadas desde la Estación Espacial Internacional.

**Name of the principal Investigator (PI):** Alejandro Sánchez de Miguel

**Degree of contribution:** Researcher

**Collaborating entity or bodies:**

F. Sánchez de Miguel

Universidad Complutense de Madrid

**Type of entity:** University

Cegep de Sherbrooke

**City collaborating entity:** Canada

University of Exeter

**City collaborating entity:** Majadahonda, United Kingdom

**Start date:** 01/01/2014

**Duration:** 6 years

**2** **Description:** Desarrollo de un instrumento para la grabación de meteoros en la estratosfera: Daedalos 12

**Name of the principal Investigator (PI):** Alejandro Sánchez de Miguel

**Degree of contribution:** Scientific coordinator

**New techniques or equipment:** Yes

**Spin-off R&D companies:** No

**Results for improvement of products:** Yes

**Standardisation, calibration:** No

**Expert technologist:** Yes

**Collaboration agreements:** No

**Collaborating entity or bodies:**

Universidad Complutense de Madrid

**Type of entity:** University

**City collaborating entity:** Madrid, Community of Madrid, Spain

Asociación Astroinnova

**Type of entity:** Associations and Groups

**Start date:** 13/12/2012

**Duration:** 1 year

**Relevant results:** Detección pionera de meteoros desde la estratosfera desde globo no tripulado. Coste muy inferior al de otros sistemas de detección.

**Identify key words:** Meteoroid

**3** **Description:** Software de reducción automática (RAPAF) del Proyecto PARTNeR-ASAAF-UCM

**Primary (UNESCO code):** 210000 - Astronomy & Astrophysics

**Secondary (UNESCO code):** 210500 - Radio-astronomy

**Name of the principal Investigator (PI):** Alejandro Sánchez de Miguel

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

**New techniques or equipment:** Yes

**Spin-off R&D companies:** No

**Results for improvement of products:** Yes

**Standardisation, calibration:** No

**Expert technologist:** Yes



**Collaboration agreements:** No

**Geographical area:** National

**Collaborating entity or bodies:**

Asociación de Astrónomos Aficionados -UCM

**Type of entity:** Associations and Groups

**City collaborating entity:** Madrid, Community of Madrid, Spain

**Target entity or bodies:**

Asociación de Astrónomos Aficionados - UCM

**Start date:** 2001

**Relevant results:** Software de reducción automática para observaciones radioastronómicas con el Radiotelescopio del Proyecto PARTNeR.

## Scientific and technological activities

### Scientific production

- 1** **H index:** 15  
**Date of application:** 02/11/2021  
**Fuente de Índice H:** WOS
- 2** **H index:** 19  
**Date of application:** 21/05/2022  
**Fuente de Índice H:** GOOGLE SCHOLAR
- 3** **H index:** 15  
**Date of application:** 02/11/2021  
**Fuente de Índice H:** SCOPUS
- 4** **H index:** 18  
**Date of application:** 21/05/2022  
**Fuente de Índice H:** ResearchGate

### Publications, scientific and technical documents

- 1** Alejandro Sánchez de Miguel; Francisco Ocaña; C.E. Tapia Ayuga; J.M. Madiedo; J. Zamorano; J. Izquierdo; M.A. Gómez Sánchez-Tirado; F. Ortuño; D. Mayo; R. Raya; A. Conde; P. Leon. THE 2016 QUADRANTIDS BALLOON-BORNE MISSION OVER SPAIN: FULL HD AND COLOUR VIDEORECORDING.LPSC. LPSC, 21/01/2016.  
**Type of production:** Scientific-technical report      **Format:** Scientific and technical document or report  
**Corresponding author:** Yes  
**Relevant publication:** Yes
- 2** Natalia Rybnikova; Alejandro Sánchez de Miguel; Sviatoslav Rybnikov; Anna Brook. A New Approach to Identify On-Ground Lamp Types from Night-Time ISS Images. Remote Sensing. MDPI, 11/11/2021.  
**Type of production:** Scientific paper      **Format:** Journal  
**Corresponding author:** No





- 3** Alejandro Sánchez de Miguel; Jaime Zamorano; Martin Aubé; Jonathan Bennie; Jesús Gallego; Francisco Ocaña; Donald R Pettit; William L Stefanov; Kevin J Gaston. Colour remote sensing of the impact of artificial light at night (II): Calibration of DSLR-based images from the International Space Station. Remote Sensing of Environment. Elsevier, 01/10/2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 4** Kevin J Gaston; Simone Ackermann; Jonathan Bennie; Daniel TC Cox; Benjamin B Phillips; Alejandro Sánchez de Miguel; Dirk Sanders. Pervasiveness of biological impacts of artificial light at night. Integrative and Comparative Biology. 61 - 3, pp. 1098 - 1110. Oxford University Press, 01/09/2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 5** Alejandro Sánchez de Miguel; Jonathan Bennie; Emma Rosenfeld; Simon Dzurjak; Kevin J Gaston. First Estimation of Global Trends in Nocturnal Power Emissions Reveals Acceleration of Light Pollution. Remote Sensing. 13 - 16, pp. 3311. MDPI, 21/08/2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 6** Nicolás Cardiel; Jaime Zamorano; Josep Manel Carrasco; Eduard Masana; Salvador Bará; Rafael González; Jaime Izquierdo; Sergio Pascual; Alejandro Sánchez de Miguel. RGB photometric calibration of 15 million Gaia stars. Monthly Notices of the Royal Astronomical Society. 507 - 1, pp. 318 - 329. Oxford University Press, 23/07/2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 7** Christopher CM Kyba; Martin Aubé; Salvador Bará; Andrea Bertolo; Constantinos A Bouroussis; Stefano Cavazzani; Brian R Espey; Fabio Falchi; Geza Gyuk; Andreas Jechow; Miroslav Kocifaj; Zoltán Kolláth; Héctor Lamphar; Noam Levin; Shengjie Liu; Steven D Miller; Sergio Ortolani; Chun Shing Jason Pun; Salvador José Ribas; Thomas Ruhtz; Alejandro Sánchez de Miguel; Matthias Schneider; Ranjay Man Shrestha; Alexandre Simoneau; Chu Wing So; Tobias Storch; Kai Pong Tong; Diane Turnshek; Ken Walczak; Jun Wang; Zhuosen Wang; Jianglong Zhang. The benefit of multiple angle observations for visible band remote sensing using night lights. Earth and Space Science Open Archive ESSOAr. American Geophysical Union, 20/07/2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 8** José Robles; Jaime Zamorano; Sergio Pascual; Alejandro Sánchez de Miguel; Jesús Gallego; Kevin J. Gaston. Evolution of Brightness and Color of the Night Sky in Madrid. Remote Sensing. MDPI, 14/04/2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 9** Nicolás Cardiel; Jaime Zamorano; Salvador Bará; Alejandro Sánchez de Miguel; Cristina Cabello; Jesús Gallego; Lucía García; Rafael González; Jaime Izquierdo; Sergio Pascual; José Robles; Ainhoa Sánchez; Carlos Tapia. Synthetic RGB photometry of bright stars: definition of the standard photometric system and UCM library of spectrophotometric spectra. Monthly Notices of the Royal Astronomical Society. Oxford University Press, 10/04/2021.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 10** M Bustamante-Calabria; Alejandro Sánchez de Miguel; Susana Martín-Ruiz; Jose-Luis Ortiz; JM Vílchez; Alicia Pelegrina; Antonio García; Jaime Zamorano; Jonathan Bennie; Kevin J Gaston. Effects of the COVID-19 lockdown on urban light emissions: ground and satellite comparison. Remote Sensing. MDPI, 13/01/2021.  
**Type of production:** Scientific paper **Format:** Journal

**Position of signature:** 2

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 10

**Corresponding author:** No

- 11** Ariadna Garcia-Saenz; de Miguel, Alejandro Sánchez. Association Between Outdoor Light-at-night Exposure and Colorectal Cancer in Spain. *Epidemiology*. 31 - 5, pp. 718 - 727. Wolters Kluwer, 01/09/2020.  
**Type of production:** Scientific paper  
**Corresponding author:** No
- 12** Daniel TC Cox; Alejandro Sánchez de Miguel; Simon A Dzurjak; Jonathan Bennie; Kevin J Gaston. National Scale Spatial Variation in Artificial Light at Night. *Remote Sensing*. 12 - 10, pp. 1591. MDPI, 16/05/2020.  
**Type of production:** Scientific paper  
**Format:** Journal  
**Corresponding author:** No
- 13** Alejandro Sanchez de Miguel; Christopher CM Kyba; Jaime Zamorano; Jesús Gallego; Kevin J Gaston. The nature of the diffuse light near cities detected in nighttime satellite imagery. *Scientific Reports*. 10 - 1, pp. 1 - 16. Nature Publishing Group, 08/05/2020.  
**Type of production:** Scientific paper  
**Format:** Journal  
**Corresponding author:** Yes
- 14** Noan Levin; Christopher C.M. Kyba; Qingling Zhang; Alejandro Sánchez de Miguel; Miguel O. Román; Xi Li; Boris A. Portnov; Andrew L. Molthan; Andreas Jechow; Steven D. Miller; Zhuosen Wang; Ranjay M. Shrestha; Christopher D. Elvidge. Remote sensing of night lights: A review and an outlook for the future. *Remote Sensing of Environment*. 237 - 111443, Elsevier, 01/02/2020.  
**Type of production:** Scientific paper  
**Format:** Journal  
**Position of signature:** 4  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Total no. authors:** 13  
**Corresponding author:** No
- 15** Kevin J. Gaston; Alejandro Sánchez de Miguel; Salvador Bará; Martin Aubé; Nicolás Cardiel; Carlos E. Tapia; Jaime Zamorano. Evaluating Human Photoreceptor Inputs from Night-Time Lights Using RGB Imaging Photometry. *Journal of Imaging*. 4 - 5, pp. 49. mdpi, 16/04/2019.  
**Type of production:** Scientific paper  
**Corresponding author:** Yes
- 16** Julie Pauwels; I Le Viol; C Azam; N Valet; J-F Julien; Y Bas; C Lemarchand; A Sanchez de Miguel; C Kerbiriou. Accounting for artificial light impact on bat activity for a biodiversity-friendly urban planning. *Landscape and Urban Planning*. 183, pp. 12 - 25. Elsevier, 01/03/2019.  
**Type of production:** Scientific paper  
**Format:** Journal  
**Corresponding author:** No
- 17** Alejandro Sánchez de Miguel; Christopher CM Kyba; Martin Aubé; Jaime Zamorano; Nicolas Cardiel; Carlos Tapia; Jon Bennie; Kevin J Gaston. Colour remote sensing of the impact of artificial light at night (I): The potential of the International Space Station and other DSLR-based platforms. *Remote Sensing of Environment*. 224, pp. 92 - 103. ELSEVIER, 11/02/2019.  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Corresponding author:** Yes
- 18** Salvador Bará; Ángel Rodríguez-Arós; Marcos Pérez; Borja Tosar; Raul C Lima; Alejandro Sánchez de Miguel; Jaime Zamorano. Estimating the relative contribution of streetlights, vehicles and residential lighting to the urban night sky brightness. *Lighting Research & Technology*. SAGE, 28/10/2018.  
**Type of production:** Scientific paper  
**Format:** Journal

- 19** Ariadna Garcia-Saenz; Alejandro Sánchez De Miguel; Ana Espinosa; Antonia Valentin; Núria Aragonés; Javier Llorca; Pilar Amiano; Vicente Martin Sánchez; Marcela Guevara; Rocío Capelo. Evaluating the association between artificial light-at-night exposure and breast and prostate cancer risk in Spain (MCC-Spain study). National Institute of Environmental Health Sciences (NIEHS), 2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 2  
**Total no. authors:** 10 **Corresponding author:** No
- 20** Christopher CM Kyba; Theres Kuester; Alejandro Sánchez de Miguel; Kimberly Baugh; Andreas Jechow; Franz Hölker; Jonathan Bennie; Christopher D Elvidge; Kevin J Gaston; Luis Guanter. Artificially lit surface of Earth at night increasing in radiance and extent. Science advances. 3 - 11, pp. e1701528 - e1701528. American Association for the Advancement of Science, 2017.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 3  
**Total no. authors:** 10 **Corresponding author:** No
- 21** Jaime Zamorano; Cristóbal García; Carlos Tapia; Alejandro Sánchez de Miguel; Sergio Pascual; Jesús Gallego. STARS4ALL Night Sky Brightness Photometer. International Journal of Sustainable Lighting. 18, pp. 49 - 54. 2017.  
**Type of production:** Scientific paper **Format:** Journal
- 22** A Sánchez de Miguel; M Aubé; J Zamorano; M Kocifaj; J Roby; C Tapia. Sky Quality Meter measurements in a colour-changing world. Monthly Notices of the Royal Astronomical Society. 467 - 3, pp. 2966 - 2979. Oxford University Press, 2017.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 23** Ramón Estrada-García; Manuel García-Gil; L Acosta; S Barja; Alejandro Sanchez-de-Miguel; J Zamorano. Statistical modelling and satellite monitoring of upward light from public lighting. Lighting Research & Technology. 48 - 7, pp. 810 - 822. SAGE Publications Sage UK: London, England, 2016.  
**Type of production:** Scientific paper **Format:** Journal
- 24** Jaime Zamorano; A Sánchez de Miguel; Francisco Ocaña; Berenice Pila-Diez; J Gómez Castaño; Sergio Pascual; Carlos Tapia; Jesús Gallego; Alberto Fernández; Miguel Nievas. Testing sky brightness models against radial dependency: A dense two dimensional survey around the city of Madrid, Spain. Journal of Quantitative Spectroscopy and Radiative Transfer. 181, pp. 52 - 66. Pergamon, 2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 2  
**Total no. authors:** 10 **Corresponding author:** No
- 25** M Aubé; M Kocifaj; J Zamorano; HA Solano Lamphar; A Sánchez de Miguel. The spectral amplification effect of clouds to the night sky radiance in Madrid. Journal of Quantitative Spectroscopy and Radiative Transfer. 181, pp. 11 - 23. Pergamon, 2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 5  
**Total no. authors:** 5
- 26** Alejandro Sánchez de Miguel; José Gómez Castaño; Jaime Zamorano Calvo; Daniel Lombraña. Georreferenciación colaborativa de imágenes nocturnas tomadas desde la ISS para estudios de consumo energético y contaminación lumínica. Universitat de Girona. Servei de Sistemes d'Informació Geogràfica i Teledetecció, 2015.  
**Type of production:** Scientific paper **Format:** Journal



- 27** R Estrada-García; M García-Gil; L Acosta; S Barja; A Sanchez-de-Miguel; J Zamorano. Statistical modelling and satellite monitoring of upward light from public lighting. *Lighting Research and Technology*. pp. 1477153515583181 - 1477153515583181. SAGE Publications, 2015.  
**Type of production:** Scientific paper **Format:** Journal
- 28** Salvador Barja; Víctor Tilve; Miguel Nievas; Alejandro Sánchez de Miguel; Jaime Zamorano. Zernike power spectra of clear and cloudy light-polluted urban night skies. *Applied Optics*. 54 - 13, pp. 4120 - 4129. OSA, 2015.  
**Type of production:** Scientific paper **Format:** Journal
- 29** José M Madiedo; José L Ortiz; Josep M Trigo-Rodríguez; Jaime Zamorano; Natalia Konovalova; Alberto J Castro-Tirado; Francisco Ocaña; Alejandro Sánchez de Miguel; Jaime Izquierdo; Jesús Cabrera-Cano. Analysis of two superbolides with a cometary origin observed over the Iberian Peninsula. *Icarus*. 233, pp. 27 - 35. Academic Press, 2014.  
**Type of production:** Scientific paper **Format:** Journal
- 30** José Gómez Castaño; Alejandro Sánchez de Miguel; Jaime Zamorano Calvo. Análisis de la correlación entre los Puntos Kilométricos Nominales y Reales en la geometría de la línea ferroviaria. 2014.  
**Type of production:** Scientific paper **Format:** Journal
- 31** Alejandro Sanchez de Miguel; Jose Gomez Castano; Jaime Zamorano; Sergio Pascual; M Angeles; L Cayuela; Guillermo Martin Martinez; Peter Challupner; Christopher Kyba. Atlas of astronaut photos of Earth at night. *ASTRONOMY & GEOPHYSICS*. 55 - 4, pp. 36 - 36. OXFORD UNIV PRESS GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND, 2014.  
**Type of production:** Scientific paper **Format:** Journal
- 32** Alejandro Sánchez de Miguel; Jaime Zamorano; José Gómez Castaño; Sergio Pascual. Evolution of the energy consumed by street lighting in Spain estimated with DMSP-OLS data. *Journal of Quantitative Spectroscopy and Radiative Transfer*. 139, pp. 109 - 117. Pergamon, 2014.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 1  
**Total no. authors:** 4 **Corresponding author:** Yes
- 33** Christopher Kyba; Stefanie Garz; Helga Kuechly; Alejandro Sánchez de Miguel; Jaime Zamorano; Jürgen Fischer; Franz Hölker. High-Resolution Imagery of Earth at Night: New Sources, Opportunities and Challenges. *Remote Sensing*. 7 - 1, pp. 1 - 23. Multidisciplinary Digital Publishing Institute, 2014.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 4  
**Total no. authors:** 5 **Corresponding author:** No
- 34** José M Madiedo; Josep M Trigo-Rodríguez; Jaime Zamorano; Jaime Izquierdo; Alejandro Sánchez de Miguel; Francisco Ocaña; José L Ortiz; Francisco Espartero; Lorenzo G Morillas; David Cardeosa; others. Orbits and emission spectra from the 2014 Camelopardalids. *Monthly Notices of the Royal Astronomical Society*. 445 - 3, pp. 3309 - 3314. Oxford University Press, 2014.  
**Type of production:** Scientific paper **Format:** Journal
- 35** José M Madiedo; Josep M Trigo-Rodríguez; Jaime Zamorano; Leonor Ana-Hernández; Jaime Izquierdo; José L Ortiz; Alberto J Castro-Tirado; Alejandro Sánchez de Miguel; Francisco Ocaña; Sensi Pastor; others. Trajectory, orbit, and spectroscopic analysis of a bright fireball observed over Spain on April 13, 2013. *Astronomy & Astrophysics*. 569, pp. A104 - A104. EDP Sciences, 2014.  
**Type of production:** Scientific paper **Format:** Journal



- 36** Salvador Bar{\'a}; Miguel Nievas; Alejandro S{\'a}nchez de Miguel; Jaime Zamorano. Zernike analysis of all-sky night brightness maps. Applied optics. 53 - 12, pp. 2677 - 2686. Optical Society of America, 2014.  
**Type of production:** Scientific paper **Format:** Journal
- 37** Juan Lacruz; Jos{\'e} M Madiedo; Josep M Trigo-Rodr{\'i}guez; Jaime Zamorano; Jos{\'e} L Ortiz; Alejandro S{\'a}nchez de Miguel; Francisco Oca{\'n}a; Jaime Izquierdo; Alberto J Castro-Tirado; Nicol{\'a}s Morales; David Galad{\'i} Enrique de Guindos; Juan Lacruz; Faustino Organero; Leonor Ana-Hern{\'a}ndez; Fernando Fonseca; Mar Tapia; Felipe Gallego; Jes{\'u}s Cabrera-Ca{\'n}o. Analysis of a superbolide from a damocloid observed over Spain on 2012 July 13. Monthly Notices of the Royal Astronomical Society. 436 - 4, pp. 3656 - 3662. Oxford University Press, 21/12/2013.  
**Type of production:** Scientific paper **Format:** Journal
- 38** S Prieto; JM Madiedo; JM Trigo-Rodr{\'i}guez; J Zamorano; J Izquierdo; F Oca{\'n}a; A S{\'a}nchez de Miguel; AJ Castro-Tirado; JL Ortiz. A 2012 Geminid Fireball: Atmospheric Trajectory, Orbit and Spectrum. revista:LPI Contributions. 1719, pp. 1108. 2013.  
**Type of production:** Scientific paper
- 39** R Nieto; JM Madiedo; JL Ortiz; AJ Castro-Tirado; JM Trigo-Rodr{\'i}guez; J Zamorano; J Izquierdo; F Oca{\'n}a; A S{\'a}nchez de Miguel; S Pastor; others. A Fireball Produced by a Meteoroid Belonging to the Delta Aquilids Stream. LPI Contributions. 1719, pp. 1071 - 1071. 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 40** JM Madiedo; JM Trigo-Rodr{\'i}guez; J Zamorano; A S{\'a}nchez de Miguel; F Oca{\'n}a; JL Ortiz; AJ Castro-Tirado; N Morales; D Galad{\'i}; E de Guindos; J Lacruz; F Organero; LA Hern{\'a}ndez; F Fonseca; M Tapia; J Cabrera. A Superbolide Recorded over Spain on July 13, 2012. revista:LPI Contributions. 1719, pp. 1116. 2013.  
**Type of production:** Scientific paper
- 41** R Nieto; Jos{\'e} Mar{\'i}a Madiedo Gil; Jos{\'e} Luis Ortiz Moreno; Alberto J Castro Tirado; Josep Mar{\'i}a Trigo Rodr{\'i}guez; J Zamorano; Jaime Izquierdo G{\'o}mez; Francisco Oca{\'n}a G{\'o}nzalez; A S{\'a}nchez de Miguel; S Pastor; others. A fireball produced by a meteoroid belonging to the delta aquilids stream. 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 42** MF Palos; Jos{\'e} Mar{\'i}a Madiedo Gil; Josep Mar{\'i}a Trigo Rodr{\'i}guez; J Zamorano; Jaime Izquierdo G{\'o}mez; Francisco Oca{\'n}a G{\'o}nzalez; A S{\'a}nchez de Miguel; others. Analisis of a northern october delta arietid fireball imagen in 2012. 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 43** MF Palos; JM Madiedo; JM Trigo-Rodr{\'i}guez; J Zamorano; J Izquierdo; F Oca{\'n}a; A S{\'a}nchez de Miguel. Analysis of a Northern October Delta Arietid Fireball Imaged in 2012. LPI Contributions. 1719, pp. 1421 - 1421. 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 44** J Alonso-Azc{\'a}rate; JM Madiedo; JM Trigo-Rodr{\'i}guez; J Zamorano; J Izquierdo; AJ Castro-Tirado; JL Ortiz; F Oca{\'n}a; A S{\'a}nchez de Miguel; J Lacruz; J Cabrera. Analysis of a Superbolide Observed over the Iberian Peninsula on July 21, 2012. revista:LPI Contributions. 1719, pp. 1055. 2013.  
**Type of production:** Scientific paper
- 45** A S{\'a}nchez De Miguel; J Zamorano; S Pascual; M L{\'o}pez Cayuela; F Oca{\'n}a; P Challupner; J G{\'o}mez Casta{\'n}o; A Fern{\'a}ndez-Renau; J G{\'o}mez; E de Miguel. ISS nocturnal images as a scientific tool against Light Pollution: Flux calibration and colors. Highlights of Spanish Astrophysics VII; Springer: Berlin, Germany. 1, pp. 916 - 919. 2013.  
**Type of production:** Scientific paper **Format:** Journal



- 46** José M Madiedo; Josep Maria Trigo i Rodríguez; Alberto J Castro Tirado; José L Ortiz; Jaime Zamorano; José Angel Docobo Durántez; Jordi Llorca; Jacinto Alonso Azcárate; Mar Tapia; Juan Fabregat Lluca; others. La red española de investigación sobre bólidos y meteoritos: Objetivos, técnicas y últimos avances. *Astronomía*. 164, pp. 20 - 27. Equipo Sirius, 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 47** J Zamorano; A Sánchez de Miguel; E Alfaro; D Martínez-Delgado; F Ocaña; M Nievas; J Gómez Castano. NIXNOX project: Enjoy the dark skies of Spain. *Highlights of Spanish Astrophysics VII*, Guirado, JC, Lara, LM, Quilis, V., and Gorgas, J., eds. pp. 962 - 970. 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 48** Jaime Zamorano Calvo; Alejandro Sánchez de Miguel; José Gómez Castano; Francisco Ocaña González; Jesús Gallego Maestro; Berenice Pila Dáñez; Miguel Nievas Rosillo; Carlos Tapia Ayuga; Alberto Fernández Domínguez; Sergio Pascual Ramírez. *Night Sky Brightness and Light Pollution in Comunidad de Madrid*. 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 49** J Zamorano; JM Madiedo; JM Trigo-Rodríguez; J Izquierdo; F Ocaña; A Sánchez de Miguel. Orbit and Lines Identification in the Emission Spectrum of a Sporadic Fireball. *LPI Contributions*. 1719, pp. 1057 - 1057. 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 50** F Ocaña; JM Madiedo; JM Trigo-Rodríguez; J Zamorano; J Izquierdo; A Sánchez de Miguel. Physico-Chemical Properties of 109P/Swift-Tuttle Debris. *LPI Contributions*. 1719, pp. 1159 - 1159. 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 51** A Sánchez de Miguel; J Gallego; PG Pérez-González; N Cardiel; J Zamorano; R Guzmán; A González; N Gruel. SPECTROPHOTOMETRIC STUDY IN THE NEAR-IR OF A SAMPLE OF MIPS SELECTED GALAXIES AT Z~ 2. *Revista Mexicana de Astronomía y Astrofísica*. 42, pp. 103 - 103. Instituto de Astronomía, 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 52** Josep M Trigo-Rodríguez; José M Madiedo; IP Williams; Joan Dergham; Jordi Cortés; Alberto J Castro-Tirado; José L Ortiz; Jaime Zamorano; Francisco Ocaña; Jaime Izquierdo; others. The 2011 October Draconids outburst--I. Orbital elements, meteoroid fluxes and 21P/Giacobini--Zinner delivered mass to Earth. *Monthly Notices of the Royal Astronomical Society*. 433 - 1, pp. 560 - 570. Oxford University Press, 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 53** Alejandro Sánchez de Miguel; Francisco Ocaña González; José María Madiedo; Fernando Ortuño; Aitor Conde; Pedro León; Miguel Ángel Gómez Sánchez-Tirado; David Mayo; Ruben Raya; Jaime Zamorano Calvo; others. The 2012 geminids balloon-Borne mission over Spain. 44th Lunar and Planetary Science Conference (2013). 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 54** ML Rodríguez Vallejo; José María Madiedo Gil; Josep María Trigo Rodríguez; J Zamorano; Jaime Izquierdo Gómez; Alberto J Castro Tirado; José Luis Ortiz Moreno; Francisco Ocaña González; A Sánchez de Miguel; others. The "Valencia de las Torres" superbolide of August 23, 2012. 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 55** JM Madiedo; JM Trigo-Rodríguez; J Zamorano; J Izquierdo; JL Ortiz; LA Hernandez; AJ Castro-Tirado; F Ocaña; A Sánchez de Miguel; S Pastor; others. Trajectory, orbit and spectroscopic analysis of a bright fireball observed over Spain in April 2013. *European Planetary Science Congress 2013*, held 8-13 September in London, UK. Online at: <http://meetings.copernicus.org/epsc2013>, id. EPSC2013-282. 8, pp. 282 - 282. 2013.  
**Type of production:** Scientific paper **Format:** Journal

- 56** A Sánchez de Miguel. Variación del brillo del fondo de cielo en el cénit con la fase y altura de la Luna. Universidad Complutense de Madrid. 2013.  
**Type of production:** Scientific paper **Format:** Journal
- 57** Jos G{\'o}mez Casta{~n}o; Javier Mejuto Gonz{\'a}lez; Gracia Rodr{\'i}guez Caderot; Alejandro Sánchez de Miguel; Jaime Zamorano Calvo. Aplicación de los Sistemas de Información Geográfica en Astronomía. Universitat de Girona. Servei de Sistemes d'Informaci{\'o} Geogr{\'a}fica i Teledetecci{\'o}, 2012.  
**Type of production:** Scientific paper **Format:** Journal
- 58** Estela Fern{\'a}ndez Valenzuela; Alejandro S{\'a}nchez de Miguel. Descubrimiento arqueoastron{\'o}mico en el Cerrillo blanco. 2012.  
**Type of production:** Scientific paper **Format:** Journal
- 59** J Zamorano; Jos{\'e} Mar{\'i}a Madiedo Gil; Josep Mar{\'i}a Trigo Rodr{\'i}guez; Jaime Izquierdo G{\'o}mez; Francisco Oca{~n}a G{\'o}nzalez; A S{\'a}nchez de Miguel; FM Toscano; others. Large meteoroids belonging to the  $\alpha$ -Capricornid meteoroid stream. 2012.  
**Type of production:** Scientific paper **Format:** Journal
- 60** J Zamorano; A S{\'a}nchez de Miguel; E Alfaro; D Mart{\'i}nez-Delgado; F Oca{~n}a; J G{\'o}mez Casta{~n}o; M Nievas. NIXNOX project: Sites in Spain where citizens can enjoy dark starry skies. Proceedings of the International Astronomical Union. 10 - H16, pp. 739 - 739. Cambridge University Press, 2012.  
**Type of production:** Scientific paper **Format:** Journal
- 61** Jacinto Alonso Azc{\'a}rate; Jos{\'e} Mar{\'i}a Madiedo Gil; Josep Mar{\'i}a Trigo Rodr{\'i}guez; J Zamorano; Jaime Izquierdo G{\'o}mez; Francisco Oca{~n}a G{\'o}nzalez; A S{\'a}nchez de Miguel; J Lacruz; FM Toscano; others. Orbit and radiant of sporadic fireball imaged by the Spanish meteor network. 2012.  
**Type of production:** Scientific paper **Format:** Journal
- 62** Josep Mar{\'i}a Trigo Rodr{\'i}guez; Jos{\'e} Mar{\'i}a Madiedo Gil; IP Williams; J Cort{\'e}s; J Dergham; P Pujols; Jos{\'e} Luis Ortiz Moreno; Alberto J Castro Tirado; Jacinto Alonso Azc{\'a}rate; J Zamorano; others. The 2011 Giacobinid outburst: meteoroid flux determination and orbital data by using video imagery from the Spanish fireball network. 2012.  
**Type of production:** Scientific paper **Format:** Journal
- 63** Alejandro Sánchez de Miguel; Jaime Zamorano Calvo; Alicia Mosquera de Arancibia; Margot Almazán González. El alumbrado público español, el mayor gasto eléctrico por habitante en Europa. Nota de Prensa. Gabinete de Comunicación UCM, 2011.  
**Type of production:** Scientific paper **Format:** Journal
- 64** Alejandro Sánchez de Miguel; Jaime Zamorano Calvo; Berenice Pila Díez; Jesús Rubio Jiménez; Roque Ruiz Carmona; Isabel Rodríguez Herranz; Alicia González Pérez. Contaminación lumínica en España 2010. Highlights of Spanish Astrophysics VI. Sociedad Española de Astronomía, 2010.  
**Type of production:** Scientific paper **Format:** Journal
- 65** Alejandro S{\'a}nchez de Miguel. Estudio espectrosc{\'o}pico en el infrarrojo de una muestra de galaxias con formaci{\'o}n estelar activa  $az = 0.8$ . 2008.  
**Type of production:** Scientific paper **Format:** Journal
- 66** Alejandro S{\'a}nchez de Miguel; Jaime Zamorano. Light pollution in Spain. An european perspective. arXiv preprint arXiv:0810.4232. 2008.  
**Type of production:** Scientific paper **Format:** Journal



- 67** Alejandro Sánchez de Miguel. Differential Photometry Study of the European Light Emission to the Space. 2007.  
**Type of production:** Scientific paper **Format:** Journal
- 68** Alejandro Sánchez de Miguel. Estudio diferencial de la emisión luminosa al espacio procedente de los países de Europa Occidental. Electra. 144, pp. 42 - 51. El Instalador, 2007.  
**Type of production:** Scientific paper **Format:** Journal
- 69** Alejandro Sánchez de Miguel. Estudio diferencial de la emisión luminosa al espacio procedente de los. revista: Electra., 144, pp. 42 - 51. 2007.  
**Type of production:** Scientific paper
- 70** Alejandro Sánchez de Miguel; Cristina Díez Lopez. Proyectos de ASAAF-UCM observando con PARTNeR. 2007.  
**Type of production:** Scientific paper **Format:** Journal
- 71** Alejandro Sánchez de Miguel; Cristina Díez Lopez; Berenice Pila Díez. The ASAAF-UCM project with PARTNeR. Universidad de Valencia, 2007.  
**Type of production:** Scientific paper **Format:** Journal
- 72** F Ocaña; A Sánchez de Miguel; B Pila-Díez; I Guirado. Comet Observations [493 Calar Alto]. Minor Planet Circulars. 57902, 2006.  
**Type of production:** Scientific paper **Format:** Journal
- 73** Ocaña, F.; Sánchez de Miguel, A.; Pila-Díez, B.; Guirado. Comet Observations [493 Calar Alto]. I. Minor Planet Circular 57902, 26 (2006).  
**Type of production:** Scientific paper **Format:** Journal
- 74** Víctor Tilve Rúa; Josefina F Ling; Salvador Barba; Alejandro Sánchez de Miguel; Miguel Nieves; Jaime Zamorano. Estimating all-sky night brightness maps from finite sets of SQM measurements.  
**Type of production:** Scientific paper **Format:** Journal
- 75** Montes, D.; Caballero, J. A.; Fernández-Rodríguez, C. J.; Alloza, L. J.; Bertrán de Lis, S.; Garrido-Rubio, A.; Greciano, R.; Herranz-Luque, J. E.; Juárez-Martínez, I.; Manjavacas, E.; Ocaña, F.; Pila-Díez, B.; Sánchez de Miguel, A.; Tapia-Ayuga, C. E.. Estimating the Age of Exoplanet's Host Stars by their Membership in Moving Groups and Young Associations. Astronomical Society of the Pacific Conference Series. 430, pp. 507.  
**Type of production:** Scientific paper **Format:** Journal
- 76** Alejandro Sánchez de Miguel; Cristina Díez Lopez. Experiencias en el PARTNeR--ASAAF--UCM.  
**Type of production:** Scientific paper **Format:** Journal
- 77** Carlos Tapia Ayuga; Alejandro Sánchez de Miguel; Jaime Zamorano Calvo. LICA-UCM lamps spectral database. Grupo UCM de Astrofísica Extragaláctica e Instrumentación Astronómica,  
**Type of production:** Scientific paper **Format:** Journal
- 78** Lahulla, F.; Sarneczky, K.; Szabo, G.; Sziladi, K.; Ocaña, F.; Sánchez de Miguel, A.; Pila-Díez, B.; Guirado, I.; Garcia, J.; Ortiz, J. L.; Santos-Sanz, P.; Sarneczky, K.; Stoss, R.. Minor Planet Observations [493 Calar Alto]. Minor Planet Circular 58104, 3 (2006) Publication.  
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- 79** Alejandro Sánchez de Miguel. La contaminación lumínica de León desde satélite. LEO\_. 125, pp. 22 - 23. 07/08/2018.  
**Type of production:** Popular science article      **Format:** Journal
- 80** J Gallego; N Cardiel; J Zamorano; J Gorgas; A Castillo-Morales; MC Eliche-Moral; A Gil de Paz; S Pascual; PG P{e}rez-Gonz{a}lez; R Guzm{a}n; others. GUAIX: The UCM Group of Extragalactic Astrophysics and Astronomical Instrumentation. pp. 499 - 499. Springer Berlin Heidelberg, 2010.  
**Type of production:** Book chapter      **Format:** Book
- 81** Emilio Alfaro Navarro; Julia Alfonso Garzón; David Barrado Navascués; Amelia Bayo Arán; Javier Bussonns Gordo; José Antonio Caballero Hernández; José R Cantó Domenech; Elisa de Castro Rubio; Sébastien Comerón Limbourg; David Galadí Enríquez; Telmo Fernandez Castro; David Galadí Enríquez; Ramon García López; Anaís González Cristal; Artemio Herrero Davó; Mariana Lanzara; Javier Licandro Goldaracena; Javier López Santiago; Mercedes Mollá Lorente; Benjamín Montesinos Comino; Carmen Morales Durán; Santiago Pérez Hoyos; Ricardo Rizzo Caminos; Dolores Rodríguez Frías; Ines Rodríguez Hidalgo; Alejandro Sánchez de Miguel; Pablo Santos Sanz; Juan Ángel Vaquerizo Gallego. 100 Conceptos básicos de Astronomía. 2009.  
**Type of production:** Scientific book or monograph      **Format:** Book
- 82** Alejandro Sánchez de Miguel; Susana Martín-Ruiz. Gasto en alumbrado público y la contaminación lumínica asociada en España y Andalucía. Zenodo. Zenodo, 23/09/2021. Available on-line at: <10.5281/zenodo.5524240>.  
**Type of production:** Scientific-technical report      **Format:** Scientific and technical document or report  
**Position of signature:** 1  
**Total no. authors:** 2      **Corresponding author:** Yes
- 83** Alejandro Sánchez de Miguel; Rebeca Benayas Polo. Ranking de la Contaminación lumínica en España 2015. Zenodo. 30/03/2019.  
**Type of production:** Scientific-technical report      **Format:** Scientific and technical document or report  
**Corresponding author:** Yes
- 84** Alejandro Sánchez de Miguel; Jaime Zamorano Calvo; José Gómez Castaño. Image classification of night time images detected from the International Space Station. 2014.  
**Type of production:** Scientific-technical report      **Format:** Scientific and technical document or report  
**Corresponding author:** Yes
- 85** Jaime Zamorano Calvo; Alejandro Sánchez de Miguel; Miguel Nievas Rosillo; Carlos Tapia Ayuga. NixNox procedure to build Night Sky Brightness maps from SQM photometers observations. 2014.  
**Type of production:** Scientific-technical report      **Format:** Scientific and technical document or report
- 86** Alejandro Sánchez de Miguel. Astronomía con Webcam. UCM E-print. 2006. Available on-line at: <http://eprints.ucm.es/12790/>.  
**Type of production:** Scientific-technical report      **Format:** Scientific and technical document or report  
**Relevant results:** En este Trabajo Académicamente Dirigido or el prof. J Zamorano se exploraron las posibilidades de las cámaras webcam para su uso en Astronomía. En particular se estudiaron las características de las cámaras disponibles, se adaptaron cámaras para larga exposición, se valoraron las capacidades del software disponible y se realizaron observaciones. [ABSTRACT] The main objective of this Trainee Project supervised by prof. J. Zamorano was to explore the use of cheap webcams for Astronomy. The main characteristics of the available cameras were studied, a camera was adapted for long exposure, a critical analysis of the software was performed and some observations are reported.
- 87** Alejandro Sánchez de Miguel; Rebeca Benayas Polo. Ranking de la contaminación lumínica en España (dataset). Zenodo. 20/03/2019.  
**Type of production:** dataset



- 88** Alejandro Sánchez de Miguel. Difusión de la astronomía española en internet: estado y posibilidades para el IYA2009. 2008.  
**Type of production:** Presentation **Format:** Scientific and technical document or report
- 89** Jaime Zamorano; Alejandro Sánchez de Miguel; Francisco Ocaña; José Gómez Castaño. El uso de imágenes de satélite para combatir la contaminación lumínica. *Astronomía*. 167, pp. 80 - 87. Equipo Sirius, 2013.  
**Format:** Journal
- 90** J Izquierdo; JM Madiedo; JM Trigo-Rodríguez; J Zamorano; F Ocaña; A Sánchez de Miguel. Spectral and Orbital Analysis of an October Delta-Aurigid Fireball. *revista:LPI Contributions*. 1719, pp. 1072. 2013.
- 91** Alejandro Sánchez de Miguel; Jaime Zamorano. Midiendo la contaminación del cielo desde el espacio. *revista:Física y sociedad*Número 21. pp. 25. 2011.  
**Format:** Journal
- 92** Jaime Zamorano; Alejandro Sánchez de Miguel; David Martínez Delgado; Emilio Alfaro. Proyecto NixNox: disfrutando de los cielos estrellados de España. *revista: Astronomía*,. 142, pp. 36 - 42. 2011.
- 93** Alejandro Sánchez de Miguel; Cristina Díaz López. Observando en radio con PARTNeR. *Astronomía*. 84, pp. 68 - 74. Equipo Sirius, 2006.  
**Format:** Journal
- 94** Iluminación LED. un arma de doble filo. *revista: Astronomía*,. pp. 68 - 75. 09/2004.
- 95** Alejandro Sánchez de Miguel. Astronomía con webcam. *Tribuna de Astronomía: Revista de astronomía, astrofísica y ciencias del espacio*. 63, pp. 68 - 75. Equipo Sirius, 2004.  
**Format:** Journal
- 96** Alejandro Sánchez de Miguel. Impacto medio ambiental de la Contaminación lumínica. *revista: Astronomía*,. 02/2003.
- 97** Alejandro Sánchez de Miguel. Contaminación lumínica y su impacto ambiental. *Tribuna de Astronomía: Revista de astronomía, astrofísica y ciencias del espacio*. 45, pp. 44 - 45. Equipo Sirius, 2003.  
**Format:** Journal
- 98** José L Ortiz; José M Madiedo; Jaime Zamorano; Josep M Trigo-Rodríguez; José A Docobo; Jaime Izquierdo; Juan Lacruz; Pedro P Campo; Manuel Andrade; Sensi Pastor. Analysis of the September ?-Perseid outburst in 2013. *Monthly Notices of the Royal Astronomical Society*. 480 - 2, pp. 2501 - 2507. Oxford University Press,

### Works submitted to national or international conferences

- 1** **Title of the work:** Balloon-borne video observations of Geminids 2016  
**Name of the conference:** International Meteor Conference  
**Corresponding author:** No  
**City of event:** Pezinok-Modra, 2018, Slovakia  
**Date of event:** 30/08/2018  
**End date:** 02/09/2018  
**Organising entity:** International Meteor Organization



Francisco Ocaña; Alejandro Sánchez de Miguel. "Proceedings of the IMC, Pezinok-Modra, 2018".

**2 Title of the work:** Night Sky Brightness monitoring in Spain

**Name of the conference:** Reunión Científica de la Sociedad Española de Astronomía

**Corresponding author:** No

**City of event:** Salamanca, Castile and León, Spain

**Date of event:** 16/07/2018

**End date:** 18/07/2018

**Organising entity:** Sociedad Española de Astronomía

Jaime Zamorano; Carlos Tapia; Sergio Pascual; Cristóbal García; Rafael González; Esteban González; Oscar Corcho; Lucía García; Jesús Gallego; Alejandro Sánchez de Miguel; Enrique Solano; J. Manuel Alacid. "Night Sky Brightness monitoring in Spain".

**3 Title of the work:** NixNox project: places to stargaze

**Name of the conference:** Reunion científica de la Sociedad Española de Astronomía

**Corresponding author:** No

**City of event:** Salamanca,

**Date of event:** 16/07/2018

**End date:** 18/07/2018

**Type of contribution:** Scientific book or monograph

Jaime Zamorano; L García; Francisco Ocaña; A Sánchez de Miguel; C Tapia; M Nievas; J Gallego; E Alfaro. "Highlights on Spanish Astrophysics X, Proceedings of the XIII Scientific Meeting of the Spanish Astronomical Society held on July 16-20, 2018, in Salamanca, Spain, ISBN 978-84-09-09331-1. B. Montesinos, A. Asensio Ramos, F. Buitrago, R. Schödel, E. Villaver, S. Pérez-Hoyos, I. Ordóñez-Etxebarria (eds.) p. 665-665". pp. 665 - 665. 2019.

**4 Title of the work:** Absolute Calibration of the ISS: Measuring colours and radiance from the ISS

**Name of the conference:** ALAN 2014: Artificial Light at Night (ALAN) Conference

**City of event:** Leicester, Leicestershire, Rutland and Northamptonshire, United Kingdom

**Date of event:** 02/09/2014

**End date:** 04/09/2014

Alejandro Sánchez de Miguel.

**5 Title of the work:** Estimating all-sky night brightness maps from finite sets of SQM measurements

**Name of the conference:** XI Scientific Meeting of the Spanish Astronomical Society

**City of event:** Teruel, Aragon, Spain

**Date of event:** 02/09/2014

**End date:** 08/09/2014

**Organising entity:** Sociedad Española de Astronomía

**Type of entity:** Associations and Groups

Victor Tilve; J. Ling; S. Bará; A. Sánchez de Miguel; M. Nievas; J. Zamorano.

**6 Title of the work:** Midiendo la contaminación lumínica: de arriba abajo y de abajo arriba

**Name of the conference:** XI Scientific Meeting of the Spanish Astronomical Society

**City of event:** Teruel, Aragon, Spain

**Date of event:** 02/09/2014

**End date:** 08/09/2014

**Organising entity:** Sociedad Española de Astronomía



- 7** **Title of the work:** Understanding the Upward Angular Distribution of Sky Glow"  
**Name of the conference:** ALAN 2014: Artificial Light at Night (ALAN) Conference  
**City of event:** Leicester, Leicestershire, Rutland and Northamptonshire, United Kingdom  
**Date of event:** 02/09/2014  
**End date:** 04/09/2014  
CCM Kyba; P.A. Cinzano; B. Espey; F. Falchi; A. Sánchez de Miguel; C. Walker; J. Zamorano.
- 8** **Title of the work:** NIXNOX project: Sites in Spain where citizens can enjoy dark starry skies  
**Name of the conference:** 13th European Symposium for the Protection of the Night Sky  
**City of event:** Pamplona, Foral Community of Navarre, Spain  
**Date of event:** 12/09/2013  
**End date:** 14/09/2013  
**Organising entity:** PLANETARIO DE PAMPLONA, S.A.  
J. Zamorano; A. Sánchez de Miguel; J. Gómez-Castaño; F. Ocaña; J. Gallego; B. Pila; M. Nievas; C. Tapia; A. Fernández; S. Pascual.
- 9** **Title of the work:** Temporal evolution of light pollution sources using ISS images and others: Madrid  
**Name of the conference:** 13th European Symposium for the Protection of the Night Sky  
**City of event:** Pamplona, Foral Community of Navarre, Spain  
**Date of event:** 12/09/2013  
**End date:** 14/09/2013  
**Organising entity:** Planetarium of Pamplona      **Type of entity:** Planetario  
**City organizing entity:** Pamplona, Foral Community of Navarre, Spain
- 10** **Title of the work:** Evolution of the energy consumed by street lighting in Spain estimated with DMSP-OLS data  
**Name of the conference:** Light Pollution: Theory, Modelling, and Measurements  
**City of event:** Smolenice, Slovakia  
**Date of event:** 15/04/2013  
**End date:** 18/04/2013  
Alejandro Sánchez de Miguel; Jaime Zamorano; José Gomez Castaño; Sergio Pascual.
- 11** **Title of the work:** Night Sky Brightness and Light Pollution in Comunidad de Madrid  
**Name of the conference:** Light Pollution : Theory, Modelling, and Measurements  
**City of event:** Smolenice, Slovak Republic, Slovakia  
**Date of event:** 15/04/2013  
**Organising entity:** Faculty of Mathematics Physics      **Type of entity:** University and Informatics  
**City organizing entity:** Bratislava, Slovakia  
Jaime Zamorano Calvo; Alejandro Sánchez de Miguel; José Gómez Castaño; Francisco Ocaña González; Jesús Gallego Maestro; Berenice Pila Díez; Miguel Nievas Rosillo; Carlos Tapia Ayuga; Alberto Fernández Domínguez; Sergio Pascual Ramírez.
- 12** **Title of the work:** Contaminación Lumínica en España 2012: Light Pollution in Spain 2012  
**Name of the conference:** Reunion científica de la Sociedad Española de Astronomía.  
**Type of participation:** 'Participatory - poster  
**Date of event:** 10/07/2012  
Alejandro Sánchez de Miguel; Jaime Zamorano Calvo; José Gómez Cast. 2012. Available on-line at: <<http://eprints.ucm.es/15970/>>.



- 13** **Title of the work:** Aplicación de los Sistemas de Información Geográfica en Astronomía  
**Name of the conference:** Aplicación de los Sistemas de Información Geográfica en Astronomía  
**Type of participation:** 'Participatory - poster  
**City of event:** Girona, Spain  
**Date of event:** 2012  
José Gómez Castaño; Javier Mejuto González; Gracia Rodríguez Caderot; Alejandro Sánchez de Miguel; Jaime Zamorano Calvo. "VI JORNADAS DE SIG LIBRE, Universitat de Girona. Servei de Sistemes d'Informació Geogràfica i Teledetecció". 2012.
- 14** **Title of the work:** Descubrimiento arqueoastronómico en el Cerrillo blanco  
**Name of the conference:** XX Congreso Estatal de Astronomía  
**Geographical area:** National  
**Type of participation:** 'Participatory - poster  
**City of event:** Gandia, Valencian Community, Spain  
**Date of event:** 2012  
**Organising entity:** Asociación Astronómica de la Safor.  
Estela Fernandez Valenzuela; Alejandro Sánchez de Miguel. Available on-line at:  
<<http://eprints.ucm.es/17305/>>.
- 15** **Title of the work:** Large Meteoroids Belonging to the Alphan-alpha-Capricornid Meteoroid Stream  
**Name of the conference:** Lunar and Planetary Institute Science Conference ..., 2012  
**Type of participation:** 'Participatory - poster  
**City of event:** Texas, United States of America  
**Date of event:** 2012  
J Zamorano; JM Madiedo; JM Trigo-Rodríguez; J Izquierdo; F Ocaña; A Sánchez de Miguel; FM Toscano. 2012.
- 16** **Title of the work:** Orbit and Radiant of a Sporadic Fireball Imaged by the Spanish Meteor Network  
**Name of the conference:** Lunar and Planetary Institute Science Conference ..., 2012  
**Type of participation:** 'Participatory - poster  
**City of event:** Texas, United States of America  
**Date of event:** 2012  
J Alonso-Azcárate; JM Madiedo; JM Trigo-Rodríguez; J Zamorano; J Izquierdo; F Ocaña; A Sánchez de Miguel; J Lacruz; FM Toscano. 2012.
- 17** **Title of the work:** Spectrophotometric study in the near-ir of a sample of MIPS selected galaxies at  $z \sim 2$   
**Name of the conference:** "Fourth Science with the GTC Meeting (2011)"  
**Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** Santa Cruz de La Palma, Canary Islands, Spain  
**Date of event:** 16/11/2011  
**End date:** 18/11/2011  
**Organising entity:** Proyecto Gran Telescopio Canarias  
**Type of entity:** Telescopio  
Alejandro Sánchez de Miguel; Jesús Gallego; Pablo G. Pérez González; Nicolás Cardiel; Jaime Zamorano; Rafael Guzmán; Anthony González Nicolás Gruel. "Revista Mexicana de Astronomía & Astrofísica, Conference Series, en prensa". En: Revista Mexicana de Astronomía & Astrofísica, Conference Series, en prensa.
- 18** **Title of the work:** Zernike power spectra of urban light-polluted cloudless night skies  
**Name of the conference:** AOTP'2014: II International Conference on Applications in Optics and Photonics  
**City of event:** Aveiro, Portugal



**Date of event:** 26/05/2011

**End date:** 30/05/2011

S. Bará; M. Nievas; A. Sánchez de Miguel; J. Zamorano.

- 19** **Title of the work:** El año internacional de la Astronomía en la Universidad Complutense de Madrid  
**Name of the conference:** Reunión científica de la Sociedad Española de Astronomía  
**Type of event:** Conference **Geographical area:** National  
**Type of participation:** 'Participatory - poster  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 13/10/2010  
**End date:** 17/10/2010  
**Organising entity:** Sociedad Española de Astronomía  
J. Zamorano; D. Montes; M. Hernán-Obispo; A. Sánchez de Miguel. "Highlights of Spanish Astrophysics VI, en prensa". Available on-line at: <<http://adsabs.harvard.edu/abs/2011hsa6.conf..863Z>>.
- 20** **Title of the work:** Contaminación Lumínica en España: Evolución histórica y panorama actual  
**Name of the conference:** Reunión científica de la Sociedad Española de Astronomía  
**Geographical area:** National  
**Type of participation:** 'Participatory - poster  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 13/10/2010  
**End date:** 17/10/2010  
**Organising entity:** Sociedad Española de Astronomía  
A. Sánchez de Miguel; J. Zamorano; B. Pila-Díez; A. González-Pérez J. Rubio-Jiménez. "Highlights of Spanish Astrophysics VI, en prensa". 2013. Available on-line at: <<http://eprints.ucm.es/12284/>>.
- 21** **Title of the work:** Estudio espectroscópico en infrarrojo cercano de una muestra de galaxias con la formación estelar activa a  $z=0.8$ ,  
**Name of the conference:** Reunión científica de la Sociedad Española de Astronomía  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 13/09/2010  
**End date:** 17/09/2010  
**Organising entity:** Sociedad Española de Astronomía **Type of entity:** Associations and Groups  
A. Sánchez de Miguel; J. Gallego; J. Zamorano; V. Villar; P.G. Pérez-González G. Barro. "Highlights of Spanish Astrophysics VI, en prensa". Available on-line at: <<http://adsabs.harvard.edu/abs/2011hsa6.conf..328S>>.
- 22** **Title of the work:** Estudio piloto de galaxias con formación estelar a  $z=2$   
**Name of the conference:** Reunión científica de la Sociedad Española de Astronomía  
**Type of participation:** 'Participatory - poster  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 13/09/2010  
**End date:** 17/09/2010  
**Organising entity:** Sociedad Española de Astronomía **Type of entity:** Associations and Groups  
J. Gallego; A. Sánchez de Miguel; P. G. Pérez-González N. Cardiel. "Highlights of Spanish Astrophysics VI, en prensa". 2013. Available on-line at: <<http://adsabs.harvard.edu/abs/2011hsa6.conf..381G>>.
- 23** **Title of the work:** Retransmisiones desde el Observatorio UCM  
**Name of the conference:** VIII Reunión Científica de la Sociedad Española de Astronomía  
**City of event:** Madrid, Community of Madrid, Spain



**Date of event:** 2010

**Organising entity:** Sociedad Española de Astronomía

**Type of entity:** Associations and Groups

David Montes; Alejandro Sánchez de Miguel; Jaime Zamorano; Jesús Gallego. Available on-line at: <[http://pendientedemigracion.ucm.es/info/Astrof/users/dmg/papers/SEAVIII-Retransmisiones\\_fv.pdf](http://pendientedemigracion.ucm.es/info/Astrof/users/dmg/papers/SEAVIII-Retransmisiones_fv.pdf)>.

**24 Title of the work:** Towards other earths. Perspectives and limitations in the ELT era

**Name of the conference:** ESO-CAUP workshop

**City of event:** Porto, Portugal

**Date of event:** 19/10/2009

**End date:** 23/10/2009

**25 Title of the work:** Estimating the Age of Exoplanet's Host Stars by their Membership in Moving Groups and Young Associations

**Name of the conference:** Pathways Towards Habitable Planets

**City of event:** Barcelona, Community of Madrid, Spain

**Date of event:** 14/09/2009

**End date:** 18/09/2009

D Montes; JA Caballero; CJ Fernández-Rodríguez; LJ Alloza; S Bertrán de Lis; A Garrido-Rubio; R Greciano; JE Herranz-Luque; I Juárez-Martínez; E Manjavacas; F Ocaña; B Pila-Díez; A Sánchez de Miguel; CE Tapia-Ayuga. 430, San Francisco: Astronomical Society of the Pacific, p.507, 2010. Available on-line at: <<http://adsabs.harvard.edu/abs/2010ASPC..430..507M>>.

**26 Title of the work:** Pathways towards habitable planets

**City of event:** Barcelona,

**Date of event:** 14/09/2009

**End date:** 18/09/2009

**27 Title of the work:** Light pollution in Spain. An european perspective

**Name of the conference:** Reunión científica de la Sociedad Española de Astronomía

**Type of event:** Conference

**Geographical area:** National

**Type of participation:** 'Participatory - poster

**Reasons for participation:** Review before acceptance

**City of event:** Santander,

**Date of event:** 07/07/2008

**End date:** 11/07/2008

**Organising entity:** Sociedad Española de Astronomía

**Type of entity:** Associations and Groups

**Publication in conference proceedings:** Yes

A. Sánchez de Miguel; J. Zamorano Calvo. "Highlights of Spanish Astrophysics V, en prensa". Available on-line at: <[http://link.springer.com/chapter/10.1007/978-3-642-11250-8\\_164](http://link.springer.com/chapter/10.1007/978-3-642-11250-8_164)>. ISBN 978-3-642-11249-2

**28 Title of the work:** GUAIX: The UCM Group of Extragalactic Astrophysics and Astronomical Instrumentation

**Name of the conference:** Reunión científica de la Sociedad Española de Astronomía

**Geographical area:** National

**Type of participation:** 'Participatory - poster

**City of event:** Santander, Community of Madrid, Spain

**Date of event:** 07/07/2008

**End date:** 11/07/2008

**Organising entity:** Sociedad Española de Astronomía

**Type of entity:** Associations and Groups



Gallego, J.; Cardiel, N.; Zamorano, J.; Gorgas, J.; Castillo-Morales, A.; Eliche-Moral, M. C.; Gil de Paz, A.; Pascual, S.; Pérez-González, P. G.; Guzmán, R.; Barro, G.; Díaz, C.; Espino, N.; Izquierdo, J.; Marmol-Queralto, E.; Muñoz-Mateos, J. C.; Rodríguez, L.; Sánchez de Miguel, A.; Toloba, E.; Villar, V.; Abelleira, M. "Highlights of Spanish Astrophysics V, Astrophysics and Space Science Proceedings, Springer-Verlag Berlin Heidelberg". , 2007. ISBN 978-3-642-11249-2

- 29** **Title of the work:** Actividades de la UCM por el AIA-IYA 2009  
**Name of the conference:** III Reunión Nacional AIA-IYA 2009  
**Type of event:** Workshop  
**City of event:** Granada, Community of Madrid, Spain  
**Date of event:** 14/01/2008  
**End date:** 15/01/2008  
**Organising entity:** Instituto de Astrofísica de Andalucía  
**Type of entity:** State agency  
**Publication in conference proceedings:** Yes  
Jaime Zamorano y Alejandro Sánchez de Miguel.  
"http://www.astronomia2009.es/multimedia/IIIReunion/JaimeZamorano.ppt".
- 30** **Title of the work:** Difusión de la astronomía española en internet: estado y posibilidades para el IYA2009  
**Name of the conference:** I Reunión Nacional AIA-IYA 2009  
**Type of event:** Workshop  
**City of event:** Granada, Andalusia, Spain  
**Date of event:** 14/01/2008  
**End date:** 15/01/2008  
**Organising entity:** Instituto Astrofísica de Andalusia  
Alejandro Sánchez de Miguel. "http://www.iaa.es/IYA09/index.php/es/reuniones\_y\_congresos/i\_reunion\_nacional\_aia\_iya2009/presentaciones". 2014.
- 31** **Title of the work:** Differential photometric study of the european light emission to the space.  
**Name of the conference:** Conferencia STARLIGHT: A common heritage proceedings, UNESCO 2008  
**Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**City of event:** La Palma, Canary Islands, Spain  
**Date of event:** 19/04/2007  
**End date:** 20/04/2007  
**Organising entity:** UNESCO  
**Publication in conference proceedings:** Yes  
**With external admission assessment committee:** Yes  
A. Sánchez de Miguel. "STARLIGHT: A common heritage proceedings, UNESCO 2008,pags. 379- 383 , DL. TF836 2008 IAC". Available on-line at: <http://eprints.ucm.es/15121/>.
- 32** **Title of the work:** ISS nocturnal images as a scientific tool against Light Pollution: Flux calibration and colors  
**Name of the conference:** X Reunión Científica de la Sociedad Española de Astronomía (SEA)  
**City of event:** Valencia, España,  
**Date of event:** 2007  
Alejandro Sánchez de Miguel; Jaime Zamorano Calvo. "Highlights of Spanish Astrophysics VII(in press)". 2007.
- 33** **Title of the work:** "El Eclipse Perfecto"  
**Name of the conference:** XVII Congreso Estatal de Astronomía  
**Geographical area:** National



**Type of participation:** Participatory - oral communication

**City of event:** Santander,

**Date of event:** 06/12/2006

**End date:** 10/12/2006

**Organising entity:** Agrupacion Astronomica de Cantabria

**Type of entity:** Associations and Groups

**City organizing entity:** Santander, Cantabria, Spain

A. Sánchez de Miguel. J. Izquierdo. "No procede". 06/2010.

**34 Title of the work:** The ASAAF-UCM Proyect with PARTNeR

**Name of the conference:** Primer Encuentro de la Radioastronomía Esp

**Type of participation:** 'Participatory - poster

**City of event:** Valencia, Community of Madrid, Spain

**Date of event:** 09/05/2006

**End date:** 11/05/2006

**Organising entity:** Universitat de València

**Type of entity:** University

**Publication in conference proceedings:** Yes

A. Sánchez de Miguel; C. Diaz; B. Pila Diez. "Conference proceedings – Primer Encuentro de la Radioastronomía Española 2006(2007)". 09/2011. ISBN 978-84-370-6754-4

**35 Title of the work:** A Fireball Produced by a Meteoroid Belonging to the Delta Aquilids Stream

R Nieto; JM Madiedo; JL Ortiz; AJ Castro-Tirado; JM Trigo-Rodríguez; J Zamorano; J Izquierdo; F Ocaña; A Sánchez de Miguel; S Pastor; JA de los Reyes. 1719, pp. 1071. 2013.

**36 Title of the work:** Chelyabinsk and other February superfireballs

**Type of contribution:** Scientific book or monograph

S Zamora; A Sánchez de Miguel; F Ocaña. "Highlights on Spanish Astrophysics IX, Proceedings of the XII Scientific Meeting of the Spanish Astronomical Society held on July 18-22, 2016, in Bilbao, Spain, ISBN 978-84-606-8760-3. S. Arribas, A. Alonso-Herrero, F. Figueras, C. Hernández-Monteagudo, A. Sánchez-Lavega, S. Pérez-Hoyos (eds.), 2017, p. 578-578". pp. 578 - 578. 2017.

**37 Title of the work:** Estimating all-sky night brightness maps from finite sets of SQM measurements

**Type of contribution:** Scientific book or monograph

V Tilve Rúa; JF Ling; S Bará; A Sánchez de Miguel; M Nievas; J Zamorano. "Highlights of Spanish Astrophysics VIII". pp. 874 - 874. 2015.

**38 Title of the work:** First results of the spatial and temporal variation of the night sky brightness in the surroundings of Valencia

**Type of contribution:** Scientific book or monograph

Enric Marco; A Morales Rubio; Jaime Zamorano; A Sánchez de Miguel. "Highlights on Spanish Astrophysics IX, Proceedings of the XII Scientific Meeting of the Spanish Astronomical Society held on July 18-22, 2016, in Bilbao, Spain, ISBN 978-84-606-8760-3. S. Arribas, A. Alonso-Herrero, F. Figueras, C. Hernández-Monteagudo, A. Sánchez-Lavega, S. Pérez-Hoyos (eds.), 2017, p. 785-785". pp. 785 - 785. 2017.

**39 Title of the work:** Historical Superbolides

**Type of contribution:** Scientific book or monograph

A Sánchez de Miguel; S Zamora; F Ocaña; C Tapia; A de Burgos; G Herriz; M Petrova. "Highlights of Spanish Astrophysics VIII". pp. 658 - 658. 2015.



- 40 Title of the work:** Light pollution from the ground, the air and the space  
**Type of contribution:** Scientific book or monograph  
A S{\'a}nchez de Miguel; J Zamorano; J G{\'o}mez Casta{~n}o; M Aub{\'e}; S Bar{\'a}; J Gallego; CCM Kyba; D Lombr{~n}a; M Nievas; S Pascual; others. "Highlights of Spanish Astrophysics VIII". pp. 872 - 872. 2015.
- 41 Title of the work:** NIXNOX project: Dark skies of Spain  
**Name of the conference:** XI Scientific Meeting of the Spanish Astronomical Society  
**City of event:** Teruel, Aragon, Spain  
**Organising entity:** Sociedad Espa~nola de Astronomía  
**Type of entity:** Associations and Groups  
J. Zamorano; A. S{\'a}nchez de Miguel; Emilio Alfaro.
- 42 Title of the work:** ORISON, A Stratospheric Project  
**Type of contribution:** Scientific book or monograph  
P Maier; JL Ortiz; A Sanchez de Miguel; JJ Lopez-Moreno; K Schindler; F Graf; J Wolf; T M{\'u}ller; R Duffard; L Berenguer Poblet; others. "European Planetary Science Congress". 11, 2017.
- 43 Title of the work:** Preliminary Spectroscopic and Dynamical Analysis of an Earth-Grazer Fireball Observed on December 24, 2014  
**Type of contribution:** Scientific book or monograph  
A Moreno; JM Madiedo; J Zamorano; R Goncalves; F Esparteros; JM Trigo-Rodr{\'i}guez; JL Ortiz; J Lacruz; J Aceituno; E De Guindos; others. "Lunar and Planetary Science Conference". 47, pp. 1088 - 1088. 2016.
- 44 Title of the work:** STARS4ALL, a Light Pollution Awareness project  
**Type of contribution:** Scientific book or monograph  
J Zamorano; C Garc{\'i}a; R Gonz{\'a}lez; C Tapia; A S{\'a}nchez de Miguel; S Pascual; E Gonz{\'a}lez; J Gallego; P Picazo; J Izquierdo; others. "Highlights on Spanish Astrophysics IX, Proceedings of the XII Scientific Meeting of the Spanish Astronomical Society held on July 18-22, 2016, in Bilbao, Spain, ISBN 978-84-606-8760-3. S. Arribas, A. Alonso-Herrero, F. Figueras, C. Hern{\'a}ndez-Monteagudo, A. S{\'a}nchez-Lavega, S. P{\'e}rez-Hoyos (eds.), 2017, p. 780-783". pp. 780 - 783. 2017.
- 45 Title of the work:** The 2011 Giacobinid Outburst: Meteoroid Flux Determination and Orbital Data by Using Video Imagery from the Spanish Fireball Network  
**Name of the conference:** Lunar and Planetary Institute Science Conference ..., 2012  
**Type of participation:** 'Participatory - poster  
JM Trigo-Rodríguez; JM Madiedo; J Cortés; J Dergham; P Pujols; JL Ortiz; AJ Castro-Tirado; J Alonso-Azcárate; J Zamorano; J Izquierdo; F Ocaña; A S{\'a}nchez de Miguel; M Tapia; FJ Mart{\'i}n-Torres; J Lacruz; D Rodr{\'i}guez; F Pruneda; A Oliva; J Pastor-Erades.
- 46 Title of the work:** The 2016 Quadrantids Balloon-Borne Mission Over Spain: Full HD and Colour Videorecording  
**Type of contribution:** Scientific book or monograph  
A S{\'a}nchez de Miguel; F Oca{~n}a; CE Tapia Ayuga; JM Madiedo; J Zamorano; J Izquierdo; MA G{\'o}mez S{\'a}nchez-Tirado; F Ortu{~n}o; D Mayo; R Raya; others. "Lunar and Planetary Science Conference". 47, pp. 2637 - 2637. 2016.
- 47 Title of the work:** UCM Meteor and Fireball Research group: Results 2012--2014  
**Type of contribution:** Scientific book or monograph  
F Oca{~n}a; A S{\'a}nchez de Miguel; J Zamorano; J Izquierdo; S Pascual; MF Palos; S Or{\'e}; G Rodr{\'i}guez-Coira; S Zamora; C Lorenzo; others. "Highlights of Spanish Astrophysics VIII". pp. 656 - 656. 2015.



## Works submitted to national or international seminars, workshops and/or courses

- 1** **Title of the work:** Light Pollution Studies at Universidad Complutense de Madrid  
**Name of the event:** COST Action Loss of the Night. Intercomparison Meeting  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 25/07/2014  
**End date:** 27/07/2014  
**Organising entity:** Dep. Astrofísica y CC. de la Atmósfera UCM  
**Type of entity:** University Department  
**City organizing entity:** Madrid, Community of Madrid, Spain  
J. Zamorano; A. Sánchez de Miguel.
- 2** **Title of the work:** Contaminación Lumínica y consumo eléctrico: el alumbrado exterior en España y Europa  
**Name of the event:** CONTAMINACIÓN LUMÍNICA: EL LADO OSCURO DE LA LUZ.  
**City of event:** Murcia, Community of Madrid, Spain  
**Date of event:** 15/04/2011  
**End date:** 15/04/2011  
**Organising entity:** Universidad de Murcia  
**Type of entity:** University  
Available on-line at: <<http://tv.um.es/video?id=23931&cod=a1>>.
- 3** **Title of the work:** Estudio fotométrico diferencial de la emisión luminosa al espacio por parte de los países de Europa occidental  
**Name of the event:** 2º Workshop ASTROCAM: Jóvenes Astrofísicos de la Comunidad de Madrid  
**Date of event:** 19/07/2007  
**End date:** 21/07/2007  
**Organising entity:** Universidad Europea de Madrid  
**Type of entity:** University  
Alejandro Sánchez de Miguel.
- 4** **Title of the work:** Experiencias en el PARTNeR-ASA AF-UCM  
**Name of the event:** 2º Workshop ASTROCAM: Jóvenes Astrofísicos de la Comunidad de Madrid  
**Date of event:** 19/07/2007  
**End date:** 21/07/2007  
**Organising entity:** Universidad Europea de Madrid  
**Type of entity:** University  
Cristina Díaz López; Alejandro Sánchez de Miguel.
- 5** **Title of the work:** Técnicas de observación, localización y consejos de Observación  
**Name of the event:** V Cursos de Astrofísica en Sigüenza  
**Type of event:** Course  
**Reasons for participation:** Upon invitation  
**City of event:** Sigüenza, Castile-La Mancha, Spain  
**Date of event:** 16/07/2007  
**End date:** 20/07/2007  
**Organising entity:** Universidad de Alcalá  
**Type of entity:** University

## Other dissemination activities

- 1** **Title of the work:** Cities at Night  
**Name of the event:** Noche de los investigadores  
**Type of event:** Fairs and exhibitions  
**City of event:** Granada, Andalusia, Spain  
**Date of event:** 29/10/2018  
**Organising entity:** Instituto de Astrofísica de Andalucía -CSIC  
**Type of entity:** R&D Centre
- 2** **Title of the work:** Cities at night - Neue Nachtlandkarte der Erde  
**Name of the event:** Radio interview  
**Type of event:** Media interviews  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 12/01/2015  
**Organising entity:** BR2  
**City organizing entity:** Madrid, Spain  
Stephanie Eichler; Alejandro Sánchez de Miguel. (Spain): Available on-line at: <<http://www.br.de/radio/bayern2/wissen/iq-wissenschaft-und-forschung/hirntod-lichtverschmutzung-arzneimittel-100.html>>.
- 3** **Title of the work:** Space Station Sharper Images of Earth at Night Crowdsourced For Science  
**Name of the event:** Interview  
**Type of event:** Media interviews  
**City of event:** United States of America  
**Date of event:** 14/08/2014  
**Organising entity:** National Aeronautics and Space Administration (NASA)  
(United States of America): Available on-line at:  
<[http://www.nasa.gov/mission\\_pages/station/research/news/crowdsourcing\\_night\\_images/#.VWyWcend\\_eR](http://www.nasa.gov/mission_pages/station/research/news/crowdsourcing_night_images/#.VWyWcend_eR)>.
- 4** **Title of the work:** Un atlas de imágenes nocturnas de la Tierra  
**Type of event:** Media interviews  
**Geographical area:** National  
**City of event:** Spain  
**Date of event:** 11/07/2014  
En: El Mundo. (Spain): Unidad Editorial Internet, S.L., 11/07/2014. Available on-line at:  
<<http://www.elmundo.es/ciencia/2014/07/11/53bd2ab222601db2118b458c.html>>. ISSN 1576-6969
- 5** **Title of the work:** Q& A with Alejandro Sanchez  
**Date of event:** 2014  
En: NIGHTSCAPE. (United States of America): Available on-line at:  
<[http://www.darkspace.org/assets/documents/Nightscape/IDA\\_April2015\\_LowRes.pdf](http://www.darkspace.org/assets/documents/Nightscape/IDA_April2015_LowRes.pdf)>.
- 6** **Title of the work:** España a Ras de Cielo  
**Name of the event:** Entrevista  
**Type of event:** Media interviews  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 22/10/2013  
**Organising entity:** ENTE PUBLICO RADIO TELEVISION ESPAÑOLA, S.A.  
Available on-line at:  
<<http://www.rtve.es/alacarta/videos/espana-a-ras-de-cielo/espana-ras-cielo-espana-noche/2053534/>>.



- 7** **Title of the work:** Meteoritos en España: así cayó el bólido que iluminó Madrid en julio de 2012  
**Name of the event:** Entrevista  
**Type of event:** Media interviews  
**Reasons for participation:** Upon invitation  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 18/02/2013  
**Organising entity:** Diario El Mundo **Type of entity:** Business  
Available on-line at: <<http://www.elmundo.es/elmundo/2013/02/18/ciencia/1361195803.html>>.
- 8** **Title of the work:** Para Todos La 2 - Debate: Contaminación lumínica  
**Type of event:** Media interviews  
**City of event:** Barcelona, Community of Madrid, Spain  
**Date of event:** 21/12/2012  
**Organising entity:** ENTE PUBLICO RADIO TELEVISION ESPAÑOLA, S.A.  
**City organizing entity:** Barcelona, Community of Madrid, Spain  
Available on-line at: <<http://www.rtve.es/alacarta/videos/para-todos-la-2/para-todos-2-debate-contaminacion-luminica/1532916/>>.
- 9** **Title of the work:** Por el derecho a ver las estrellas  
**Name of the event:** Informativo  
**Type of event:** Media interviews  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 17/12/2012  
**Organising entity:** ANTENA 3 TELEVISION  
Available on-line at: <[http://www.antena3.com/especiales/noticias/ciencia/hazte-eco/-informativo/derecho-ver-estrellas\\_2012121400226.html](http://www.antena3.com/especiales/noticias/ciencia/hazte-eco/-informativo/derecho-ver-estrellas_2012121400226.html)>.
- 10** **Title of the work:** Se acercan las famosas 'lágrimas de San Lorenzo'  
**Name of the event:** Entrevista  
**Type of event:** Media interviews  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 11/08/2012  
**Organising entity:** ENTE PUBLICO RADIO TELEVISION ESPAÑOLA, S.A.  
Available on-line at: <<http://www.rtve.es/noticias/20120808/perseidas/555322.shtml>>.
- 11** **Title of the work:** La observación del cielo nocturno  
**Name of the event:** Sobre la mesa - La observación del cielo nocturno  
**Type of event:** Media interviews  
**Date of event:** 24/07/2012  
**Organising entity:** RADIO NACIONAL DE ESPAÑA, S.A.  
Available on-line at: <<http://www.rtve.es/alacarta/audios/sobre-la-mesa/sobre-mesa-observacion-del-cielo-nocturno-24-07-12/1489520/>>.
- 12** **Title of the work:** Sobre la mesa - Campus científicos de verano para acercar la Universidad a los estudiantes de Bachillerato  
**Type of event:** Media interviews  
**Date of event:** 30/05/2012  
**Organising entity:** RADIO NACIONAL DE ESPAÑA, S.A.  
Available on-line at: <<http://www.rtve.es/alacarta/audios/sobre-la-mesa/sobre-mesa-campus-cientificos-verano-para-acercar-universidad-estudiantes-bachillerato-30-05-12/1423759/>>.



- 13 Title of the work:** Expedición UCM: Eclipse total Australia 2012  
**Name of the event:** Expedición UCM  
**Type of event:** Expedición Científica/Retransmisión  
**City of event:** Australia  
**Date of event:** 2012  
Alejandro Sánchez de Miguel; Jaime Izquierdo; Jaime Zamorano Calvo. (Australia): Available on-line at: <<http://eclipseucm.blogspot.com.es/>>.
- 14 Title of the work:** Informe Semanal: La factura energética  
**Type of event:** Media interviews  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 12/03/2011  
**Organising entity:** TELEVISION ESPAÑOLA, S.A.  
Available on-line at: <<http://www.rtve.es/alacarta/videos/informe-semanal/informe-semanal-factura-energetica/1043697/>>.
- 15 Title of the work:** El alumbrado público español es el de mayor gasto eléctrico de Europa  
**Type of event:** Media interviews  
**Date of event:** 04/03/2011  
**Organising entity:** Fundación Eroski  
**Type of entity:** Foundation  
Available on-line at: <[http://www.consumer.es/web/es/medio\\_ambiente/2011/03/04/199322.php](http://www.consumer.es/web/es/medio_ambiente/2011/03/04/199322.php)>.
- 16 Title of the work:** El alumbrado público español es el de mayor gasto de Europa  
**Type of event:** Media interviews  
**Reasons for participation:** Upon invitation  
**Date of event:** 03/03/2011  
**Organising entity:** AGENCIA EFE, S.A.  
Available on-line at: <<http://www.elmundo.es/elmundo/2011/03/03/economia/1299179578.html>>.
- 17 Title of the work:** Contaminación lumínica en España  
**Type of event:** Media interviews  
**Date of event:** 03/12/2010  
**Organising entity:** Fundación EROSKI  
Available on-line at: <[http://www.consumer.es/web/es/medio\\_ambiente/energia\\_y\\_ciencia/2010/12/02/197418.php](http://www.consumer.es/web/es/medio_ambiente/energia_y_ciencia/2010/12/02/197418.php)>.
- 18 Title of the work:** De Europa al cielo: Un paseo por la luna De la Noche de los investigadores 2010  
**Name of the event:** Noche de los investigadores  
**Type of event:** Fairs and exhibitions  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 24/09/2010  
**Organising entity:** Universidad Complutense de Madrid  
**Type of entity:** University  
Available on-line at: <<http://www.madrimasd.org/lanochedelosinvestigadores2010/2010/06/de-europa-al-cielo-un-paseo-por-la-luna/>>.
- 19 Title of the work:** Expedición UCM: Eclipse total Isla de Pascua 2010  
**Name of the event:** Expedición UCM  
**Type of event:** Expedición científica/retransmisión  
**City of event:** Chile



**Date of event:** 2010

Miquel Serra Ricart; Jesús Gallego Maestro; Juan Carlos Casado; Jaime Zamorano; Alejandro Sánchez de Miguel; Jaime Izquierdo. Available on-line at: <<http://eclipseucm.blogspot.com.es/>>.

**20 Title of the work:** "España gasta 450 millones de euros en alumbrado público, casi el doble que Alemania"

**Type of event:** Media interviews

**Date of event:** 26/09/2009

**Organising entity:** Fundación EROSKI

Available on-line at:

<[http://www.consumer.es/web/es/medio\\_ambiente/energia\\_y\\_ciencia/2009/09/26/188242.php](http://www.consumer.es/web/es/medio_ambiente/energia_y_ciencia/2009/09/26/188242.php)>.

**21 Title of the work:** Informe semanal - Hijos de las estrellas

**Name of the event:** Informativo

**Type of event:** Media interviews

**City of event:** Borobio, Community of Madrid, Spain

**Date of event:** 15/08/2009

**Organising entity:** TELEVISION ESPAÑOLA, S.A.

Available on-line at:

<<http://www.rtve.es/alacarta/videos/informe-semanal/informe-semanal-hijos-estrellas/567531/>>.

**22 Title of the work:** Observación astronómica Ruta Quetzal 2009

**Name of the event:** Ruta Quetzal BBVA

**Type of event:** Fairs and exhibitions

**City of event:** Lozoya, Community of Madrid, Spain

**Date of event:** 17/07/2009

**Organising entity:** MINISTERIO DE ASUNTOS EXTERIORES

**23 Title of the work:** Expedición UCM: Eclipse total China 2008

**Name of the event:** Expedición UCM

**Type of event:** Expedición científica/retransmisión

**City of event:** China

**Date of event:** 2008

**Organising entity:** Departamento de Física de la Tierra, Astronomía y Astrofísica II (UCM)      **Type of entity:** University Department

Alejandro Sánchez de Miguel; Jaime Izquierdo; Jaime Zamorano.

**24 Title of the work:** Expedición UCM: Eclipse total Libia 2006

**Name of the event:** Expedición UCM

**Type of event:** Expedición científica/retransmisión

**City of event:** Libya

**Date of event:** 2006

**Organising entity:** Departamento de Física de la Tierra, Astronomía y Astrofísica II (UCM)      **Type of entity:** University Department

**City organizing entity:** Madrid, Community of Madrid, Spain

Jaime Zamorano Calvo; Jaime Izquierdo; Jesús Gallego Maestro; Alejandro Sánchez de Miguel. "CD. Expedición UCM Libia". Available on-line at: <<http://eclipseucm.blogspot.com.es/>>.

**25 Title of the work:** Retransmisión del Eclipse Anular de Sol 2005

**Name of the event:** Eclipse Anular 2005

**Type of event:** Retransmisiones

**City of event:** Madrid, Community of Madrid, Spain



**Date of event:** 03/10/2005

**Organising entity:** Departamento de Física de la Tierra, Astronomía y Astrofísica II (UCM)      **Type of entity:** University Department

**City organizing entity:** Madrid, Community of Madrid, Spain

Alejandro Sánchez de Miguel; David Montes; Jaime Zamorano; Jesús Gallego Maestro.

**26 Title of the work:** Todo lo que quiso saber de los Agujeros negros y nadie le explicó

**Name of the event:** Astronómico Astromartos 2005

**Type of event:** Conferences given

**City of event:** Martos, Community of Madrid, Spain

**Date of event:** 02/08/2005

**Organising entity:** Asociación AstroMartos      **Type of entity:** Associations and Groups

**27 Title of the work:** Taller de Astronomía: "Preparando el próximo Eclipse Anular", "Buscando OBNIs (Objetos Brillantes no identificados)" y "El Sol en una caja"

**Name of the event:** VI Feria Madrid por la Ciencia

**Type of event:** Fairs and exhibitions

**Reasons for participation:** Upon invitation

**City of event:** Madrid, Community of Madrid, Spain

**Date of event:** 2005

**Organising entity:** Comunidad de Madrid      **Type of entity:** Gobierno Autonomico

**City organizing entity:** Madrid,

EUGENIA GONZÁLEZ DE LA ROCHA DE LA ROCHA; ROSA MECHA; JAVIER MEJUTO GONZÁLEZ; SERGIO VELASCO MUÑOZ; ALEJANDRO SÁNCHEZ DE MIGUEL. "Buscando OBNI (objetos brillantes no identificados); Electricidad y magnetismo, la unión que permite la levitación; Cartografía magnética cerebral; Einstein y el movimiento browniano. ¿Quieres contar moléculas?". Available on-line at: <[http://www.madrimasd.org/cienciaysociedad/feria/publicaciones/Feria6/3/Univ\\_Complutense.pdf](http://www.madrimasd.org/cienciaysociedad/feria/publicaciones/Feria6/3/Univ_Complutense.pdf)>.

**28 Title of the work:** Retransmisión Transito de Venus 2004

**Name of the event:** Retransmisión Transito de Venus

**Type of event:** Retransmisiones

**City of event:** Madrid, Community of Madrid, Spain

**Date of event:** 04/06/2004

**Organising entity:** Departamento de Física de la Tierra, Astronomía y Astrofísica II (UCM)      **Type of entity:** University Department

**City organizing entity:** Madrid, Community of Madrid, Spain

Alejandro Sánchez de Miguel; David Montes; Jesús Gallego; Jaime Zamorano.

**29 Title of the work:** Como hacer un espectrografo visual ( y otras curiosidades)

**Name of the event:** Astrored Starparty

**Type of event:** Conferences given

**City of event:** Borobia, Castile and León, Spain

**Date of event:** 17/08/2002

**30 Title of the work:** Contaminación lumínica

**Name of the event:** Campus Pary14

**Type of event:** Conferences given

**City of event:** Valencia, Community of Madrid, Spain

**Organising entity:** ASOCIACION E3 FUTURA

**City organizing entity:** Valencia, Community of Madrid, Spain

Alejandro Sánchez de Miguel.





- 31 Title of the work:** Observaciones Solares  
**Name of the event:** Programa de Campus Científicos de Verano 2011  
**City of event:** Madrid, Community of Madrid, Spain  
**Organising entity:** Universidad Complutense de Madrid  
**Type of entity:** University  
Available on-line at:  
<<http://www.campusmoncloa.es/es/noticias/nuevo-blog-de-los-campus-cientificos-de-verano-2011/117/>>.

## R&D management and participation in scientific committees

### Scientific, technical and/or assessment committees

- 1 Committee title:** Comisión Pro-AM  
**Primary (UNESCO code):** 210000 - Astronomy & Astrophysics  
**Affiliation entity:** Sociedad Española de Astronomía  
**Start-End date:** 2009 - 2011
- 2 Committee title:** Scientific commite Stars4all fundation  
**Start date:** 2018

### Organization of R&D activities

- 1 Title of the activity:** COST Action Loss of the Night. Intercomparison Meeting  
**Type of activity:** technical  
**Geographical area:** European Union  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Start-End date:** 23/07/2014 - 25/07/2014  
**Duration:** 3 days
- 2 Title of the activity:** VII Reunión científica de la Sociedad Española de Astronomía  
**Type of activity:** Congreso  
**Geographical area:** National  
**Convening entity:** Sociedad Española de Astronomía  
**Type of entity:** Associations and Groups  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Organiser  
**Start date:** 2010  
**Duration:** 5 days
- 3 Title of the activity:** XIX Congreso Estatal de Astronomía  
**Type of activity:** Congreso  
**Geographical area:** National  
**City of event:** Madrid, Community of Madrid, Spain  
**Convening entity:** Asociación de Astrónomos Aficionados - UCM  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Miembro del comité científico asesor  
**N° assistants:** 300  
**Start date:** 2010  
**Duration:** 3 days



- 4** **Title of the activity:** Congreso SEA, Colaboración ProAM  
**Type of activity:** Congreso **Geographical area:** National  
**Convening entity:** Sociedad Española de Astronomía **Type of entity:** Associations and Groups  
**City convening entity:** Córdoba, Andalusia, Spain  
**Type of participation:** Miembro del Comité científico Asesor  
**Nº assistants:** 150  
**Start date:** 2009
- 5** **Title of the activity:** 4as Jornadas Astronómicas de Madrid  
**Type of activity:** Jornadas **Geographical area:** Regional  
**Convening entity:** Agrupación Astronómica de Madrid **Type of entity:** Associations and Groups  
**City convening entity:** Coslada, Community of Madrid, Spain  
**Type of participation:** Organiser  
**Start date:** 2008
- 6** **Title of the activity:** 3as Jornadas Astronómicas de Madrid  
**Type of activity:** Jornadas  
**Convening entity:** Asociación de Astrónomos Aficionados -UCM **Type of entity:** Associations and Groups  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Organiser  
**Nº assistants:** 150  
**Start date:** 2006
- 7** **Title of the activity:** 2as Jornadas Astronómicas de Madrid  
**Type of activity:** Jornadas Regionales **Geographical area:** Regional  
**Convening entity:** Asociación de Astrónomos Aficionados - UCM **Type of entity:** Associations and Groups  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Chairman  
**Nº assistants:** 150  
**Start date:** 2003
- 8** **Title of the activity:** 1as Jornadas Astronómicas de Madrid  
**Type of activity:** Congreso regional **Geographical area:** Regional  
**Convening entity:** Asociación de Astrónomos Aficionados - UCM  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Chairman  
**Nº assistants:** 150  
**Start date:** 2001



## R&D management

- Name of the activity:** Cities at Night  
**Type of management:** Programme management  
**Performed tasks:** Coordination  
**Entity:** Fundación Stars4all/SaveStars Consulting S.L./Universidda Complutense de Madrid  
**Start date:** 07/07/2014
- Name of the activity:** Miembro de Junta de Facultad  
**Type of management:** Management of body  
**Performed tasks:** Representación de estudiantes  
**Entity:** Facultad de Ciencias Físicas  
**Start date:** 01/04/2003  
**Access system:** By vote among several candidates

**Type of entity:** University  
**Duration:** 5 years

## National and international forums and committees

**Name of the forum:** Comité internacional  
**Professional category:** Cochair  
**Organising entity:** International Dark Sky Association  
**City organizing entity:** Tucson, Arizona, US, United States of America  
**Start date:** 01/04/2021

**Type of entity:** Associations and Groups

## Other achievements

### Stays in public or private R&D centres

**Entity:** Freie Universität Berlin  
**Faculty, institute or centre:** Institute for Space Sciences  
**City of entity:** Berlin, Berlin, Germany  
**Start-End date:** 01/10/2013 - 31/12/2013  
**Goals of the stay:** Guest

**Type of entity:** University

### Obtained grants and scholarships

- Name of the grant:** STSM title: Multiband photometric study of light pollution in Berlin  
**City awarding entity:** Berlin, Berlin, Germany  
**Identify key words:** Astronomy; Remote sensing  
**Aims:** Pre-doctoral  
**Awarding entity:** Council of the European Union  
**Amount of the grant:** 3.400 €  
**Conferral date:** 16/09/2013  
**End date:** 20/12/2013

**Type of entity:** State agency  
**Duration:** 3 months



**Entity where activity was carried out:** Freie Universität Berlin Department of Earth Sciences Institute for Space Sciences

- 2** **Name of the grant:** Formación del Profesorado Universitario  
**City awarding entity:** Madrid, Community of Madrid, Spain  
**Aims:** Pre-doctoral  
**Awarding entity:** Ministerio de Ciencia e Innovación. **Type of entity:** Ministerio Investigación  
**Conferral date:** 01/08/2009 **Duration:** 4 years  
**End date:** 01/08/2013  
**Entity where activity was carried out:** Dep. Astrofísica y CC. de la Atmósfera

- 3** **Name of the grant:** BECA-COLABORACIÓN  
**Aims:** Colaboración AIA-IYA 2009  
**Awarding entity:** Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency  
**Amount of the grant:** 2.700 €  
**Conferral date:** 06/11/2008 **Duration:** 1 year  
**Entity where activity was carried out:** Departamento de Física de la Tierra, Astronomía y Astrofísica II (UCM)  
**Faculty, institute or centre:** CC. Físicas

### Scientific societies and professional associations

- 1** **Name of the society:** Real Sociedad Española de Física  
**City affiliation entity:** Spain  
**Start-End date:** 2005 - 2007
- 2** **Name of the society:** American Association for the Advancement of Science  
**City affiliation entity:** United States of America  
**Start-End date:** 2000 - 2004
- 3** **Name of the society:** Astroinnova  
**Start date:** 2012
- 4** **Name of the society:** International DarkSky Association  
**Start date:** 2012
- 5** **Name of the society:** Celfosc  
**Start date:** 2010
- 6** **Name of the society:** Astrohenares  
**City affiliation entity:** Community of Madrid, Spain  
**Start date:** 2008
- 7** **Name of the society:** Sociedad Española de Astronomía  
**City affiliation entity:** Spain  
**Start date:** 2008



- 8** **Name of the society:** Grupo de Protección del Cielo  
**Start date:** 2001
- 9** **Name of the society:** Asociación de Astrónomos Aficionados - UCM  
**Affiliation entity:** Universidad Complutense de Madrid **Type of entity:** University  
**City affiliation entity:** Madrid, Community of Madrid, Spain  
**Professional category:** Socio de Honor  
**Nº of members:** 700  
**Start date:** 1998
- 10** **Name of the society:** Agrupación Astronómica de Madrid  
**City affiliation entity:** Community of Madrid, Spain  
**Nº of members:** 500  
**Start date:** 1997

### Co-operation networks

- 1** **Name of the network:** Loss of the Night Network  
**Identification of the network:** ESSEM COST Action ES1204  
**Start date:** 30/09/2014
- 2** **Name of the network:** LoNNe  
**Identification of the network:** ESSEM COST Action ES1204  
**Start date:** 2012 **Duration:** 4 years
- 3** **Name of the network:** All-wavelength Extended Groth strip International Survey(AEGIS)
- 4** **Name of the network:** Astrid
- 5** **Name of the network:** AstroMadrid
- 6** **Name of the network:** RED ESPAÑOLA DE ESTUDIOS SOBRE LA CONTAMINACION LUMINICA
- 7** **Name of the network:** Red de Investigación sobre Bólidos y Meteoritos (SPMN)
- 8** **Name of the network:** Stas4all



## Prizes, mentions and distinctions

- 1** **Description:** IDA Montly Star  
**Awarding entity:** International Dark Sky Association  
**City awarding entity:** United States of America  
**Conferral date:** 01/11/2021
- 2** **Description:** TOP100 most Downloaded  
**Awarding entity:** Scientific Reports  
**Conferral date:** 31/03/2021
- 3** **Description:** TOP 100  
**Awarding entity:** Altmetric  
**Conferral date:** 29/11/2018  
**Type of entity:** CIBER
- 4** **Description:** Dark Sky defender  
**Awarding entity:** International Dark Sky Association  
**City awarding entity:** Leicester, United Kingdom  
**Conferral date:** 05/09/2014  
**Recognition linked:** <http://www.darksky.org/night-sky-conservation/annual-awards>  
**Type of entity:** Associations and Groups
- 5** **Description:** Honor membership  
**Awarding entity:** Asociación de Astronomos Aficionados de la Universidad Complutense de Madrid  
**City awarding entity:** Madrid, Community of Madrid, Spain  
**Conferral date:** 2010
- 6** **Description:** Premio Escolar: Investigación  
**Awarding entity:** Instituto Nacional de Técnica Aeroespacial  
**Conferral date:** 2009  
**Type of entity:** State agency

## Obtained accreditations/recognitions

- 1** **Description:** PROFESOR/A AYUDANTE DOCTOR/A  
**Accrediting entity:** Agencia Nacional de Evaluación de la Calidad y Acreditación  
**Date of recognition:** 22/07/2020  
**Type of entity:** Agencia de la Calidad y Acreditación
- 2** **Description:** PROFESOR/A CONTRATADO/A DOCTOR/A  
**Accrediting entity:** Agencia Nacional de Evaluación de la Calidad y Acreditación  
**Date of recognition:** 22/07/2020  
**Type of entity:** Agencia de la Calidad y Acreditación
- 3** **Description:** PROFESOR/A DE UNIVERSIDAD PRIVADA  
**Accrediting entity:** Agencia Nacional de Evaluación de la Calidad y Acreditación  
**Date of recognition:** 22/07/2020  
**Type of entity:** Agencia de la Calidad y Acreditación