CURRÍCULUM VÍTAE NORMALIZADO

Emilio J. Palomares Gil

Generated from: Editor CVN de FECYT

Date of document: 26/01/2026

v 1.4.3

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GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES

FECYT INNOVACIÓN

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.

Higher Education

2001 > PhD in Chemistry. ITQ (CSIC)-Universitat Politècnica de Valencia, Spain. "Applied Photochemistry to the Study of Metals Incorporated in Metal Oxides and Structurally Ordered Aluminosilicates" Supervisor: Prof. Hermenegildo García Gómez.
1998-1999 > MSc in Chemistry, Universitat de Valencia. "Novel phorbol-related diterpenes isolated from Euphorbia obtusifolia" Supervisor: Prof. Albero Marco.
1992-1997 > BA in Biology. Speciality Biochemistry, Universitat de Valencia, Spain

Academic Appointments

2020- present > ICIQ Director - **(ICIQ)**
2019-2024 > Energy and Environmental Solutions (E2S) **Chair at UPPA**, University of Pau et des Pays de l'Adour, Pau, France.
2008- present > **ICREA Research Professor – Institute of Chemical Research of Catalonia (ICIQ),** Tarragona, Spain.
2006-2008 > Ramon y Cajal Fellow at **Institute of Chemical Research of Catalonia** (ICIQ), Tarragona, Spain.
2004-2006 > Ramon y Cajal Fellow at the **ICMol-Universitat de Valencia**, Valencia, Spain.
2001-2004 > Postdoctoral Researcher at **Imperial College**, United Kingdom, **(2001-2004)**. Supervisor Prof. James R. Durrant.

Fellowships and Awards

2024 > Medalla Narcís Monturiol al mèrit científic i tecnològic de la Generalitat de Catalunya.
2023 > **ERC Adv. Grant (Excited):** "Engineering Excited States, Orbital Coupling and Quantum Coherence Phenomena in Photoelectrochemical Energy Conversion Devices".
2023 > Distintiu 9 d'Octubre from the City Hall of Cullera (Spain)
2021 > Fellow of the **Spanish Royal Society of Chemistry** (RSEQ)
2015 > **ERC Proof of Concept** (2NanoSi): "Ratiometric FRET Based Nanosensor for Trypsin Related Human Recessive Diseases".
2014 > **Fellow of the Royal Society of Chemistry.**
2010 > Innova **SUSCHEM-Spain Award** - Madrid, Spain.
2009 > **ERC Starting Grant** (Polydot): "Control of the Electronic Properties in Hybrid-Quantum Dot/polymer Materials for Energy Production."
2008 > **ICREA** (Catalan Institution for Research and Advanced Studies) Research Award.
2006 > Spanish Royal Society of Chemistry (**RSEQ**) **Young Chemist Award**.
2004 > **SIGMA-ALDRICH Distinguished Lecture** for Young Chemists, Madrid, Spain.

2004 > **Roscoe Medal** "2004 Younger European Chemist's Conference"-Torino, Italy.
2003 > **Ramon y Cajal** Fellowship.
2002 > **Marie Curie Fellowship** HPMF-CT-2002-01744 (**2002-2004**).
1992-1997 Spanish Ministry of Science and Education (MEC) fellowships.

Quality indicators

At the Institute of Chemical Research of Catalonia (ICIQ), I have successfully directed **22 PhD theses** (8 more researchers are right now engaged on their PhD studies), 3 of them have been awarded with the Best PhD Thesis Award of the Year by the Rovira i Virgili University, Tarragona, Spain. I have also supervised 19 **post-Doctoral researchers**. **I am very proud that several of my former PhD students now hold positions in academia or industry** in Europe and overseas.

Beyond direct supervision, Professor Palomares makes significant contributions to the international scientific community. He regularly acts as a reviewer and editor for prominent peer-reviewed journals, participates in organising major national and international conferences, and is actively involved in strategic advisory bodies and research evaluation panels, including at European and national levels. These activities highlight his commitment to upholding high standards of research quality, integrity, and governance, further emphasising his role as a trusted and influential figure within the global scientific ecosystem.

Scientific achievements

His scientific output is outstanding, with over 300 peer-reviewed publications, a Google Scholar h-index of around 75, and nearly 23,000 citations, a significant proportion of which, 59, were accumulated between 2020-2025.

This consistent and increasing impact highlights his influential role in the fields of photovoltaics, solar fuels, and functional nanomaterials, and affirms his reputation as a leading international authority driving innovation in solar energy conversion and related technologies.

Leadership Merits

Brief presentation of the merits related to leadership activities of special relevance.

As Director of ICIQ from 2020 to present, Emilio Palomares provided strong scientific and institutional leadership during a period marked by significant growth, increased competitiveness, and international recognition of the institute. Under his guidance, ICIQ strengthened its position as a leading European research centre in chemical science, with a clear strategic focus on excellence, interdisciplinarity, and societal impact. Moreover, as an ICREA Researcher, Professor Palomares has built an extensive and active international network, evidenced by long-standing collaborations across Europe and other regions, frequent invitations to deliver keynote and plenary lectures at major international conferences, and continued visibility within the global scientific community. His international reputation is also demonstrated by his service on ERC panels and national evaluation committees, underscoring the recognition of his expertise and judgment at the highest levels of research assessment.

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.

I have published over **300 peer-reviewed publications and 2 book chapters** with a Google Scholar h-index of around **75**, and nearly **23,000 citations**. This consistent and increasing impact highlights his influential role in the fields of photovoltaics, solar fuels, and functional nanomaterials, and affirms his reputation as a leading international authority driving innovation in solar energy conversion and related technologies.

I have co-authored **6 patents**, 5 of them international.

I have participated in **9 EU-funded research projects, 16 national research projects, and 8 research projects with industries** and given over 100 invited lectures at international and national conferences (39 in the last 5 years).

Avg. no. citations over last 5 years (WOS, 2021-2025): 993/year.

Emilio J. Palomares Gil

Surname(s):	**Palomares Gil**
Name:	**Emilio J.**
DNI:	**73559843R**
ScopusID:	**7004067460**
ResearcherID:	**G-5251-2012**
Date of birth:	**17/01/1974**
Gender:	**Male**
Nationality:	**Spain**
Country of birth:	**Spain**
Aut. region/reg. of birth:	**Comunitat Valenciana**
Contact province:	**Tarragona**
City of birth:	**Valencia**
Contact address:	**Av. Països Catalans 16**
Postcode:	**43007**
Contact country:	**Spain**
Contact aut. region/reg.:	**Cataluña**
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Land line phone:	**(+34) 977920241**
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Personal web page:	**https://iciq.org/research-group/prof-emilio-palomares/overview/**

Current professional situation

1 **Employing entity:** FUNDACIÓ INSTITUT CATALÀ D'INVESTIGACIÓ QUÍMICA (ICIQ) **Type of entity:** R&D Centre
Professional category: ICIQ Director
City employing entity: Tarragona, Cataluña, Spain
Phone: (34) 977 920 200 **Email:** iciq@iciq.es
Start date: 2020
Type of contract: Permanent employment contract **Dedication regime:** Full time

2 **Employing entity:** FUNDACIO INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Professional category: ICREA Research Professor and ERCstg fellow
Start date: 2006
Type of contract: Permanent employment contract **Dedication regime:** Full time
Secondary (UNESCO code): 221022 - Photochemistry

Previous positions and activities

	Employing entity	Professional category	Start date
1	Université de Pau et des Pays de l'Adour (UPPA)	E2S (Energy and Environment Solutions) Scientific Chair	2019

	Employing entity	Professional category	Start date
2	Instituto de Ciencia Molecular-Universidad de Valencia	Ramón y Cajal fellowship	2004
3	Imperial College. Centre for Electronic Materials and Devices	Postdoctor	2001
4	Universitat Politècnica de València	Predoctoral position	1999

1 **Employing entity:** Université de Pau et des Pays de l'Adour (UPPA)
Professional category: E2S (Energy and Environment Solutions) Scientific Chair
Start-End date: 2019 - 2024

2 **Employing entity:** Instituto de Ciencia Molecular-Universidad de Valencia
Professional category: Ramón y Cajal fellowship
Start-End date: 2004 - 2006

3 **Employing entity:** Imperial College. Centre for Electronic Materials and Devices
Professional category: Postdoctor
Start-End date: 2001 - 2004

4 **Employing entity:** Universitat Politècnica de València **Type of entity:** University
Professional category: Predoctoral position
Start-End date: 1999 - 2001

Summary of professional activity

My scientific career has focused on charge-transfer reactions in materials for energy conversion and catalysis, always pursuing innovative and frontier research. At ICIQ, as an ICREA Research Professor and as Director from 2020, I investigated quantum dot solar cells using time-resolved spectroscopy. As an ERC Advanced Fellow, my current work examines how molecular structure governs device function from a spectroscopic viewpoint, with a long-standing interest in solar-to-energy/product conversion and CO_2 reduction through photo- and electrocatalytic methods.

I have built an international research group working on organic molecules and materials for solar cells, a trajectory recognized with an ERC Starting Grant (2009). This expertise enabled the development of nanobiomolecular probes for disease diagnosis and chemosensors, awarded with an ERC Proof of Concept Grant (2015) and later transferred as spin-off technology. I have also advanced research on perovskite solar cells and, more recently, on solar-driven CO_2 reduction catalysis. In 2023, I received an ERC Advanced Grant to explore quantum coherence effects in solar cells and their impact on efficiency.

I lead a team of 20 researchers funded by competitive regional, national, and European programs, and secured over €10.2M as an independent investigator. I directed 8 industrial projects and collaborated with technological centers. I am co-author of 6 patents and served as Chair of E2S at UPPA from 2019 to 2024.

Education

University education

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

1 **University degree:** Máster
Name of qualification: Máster en Química
Degree awarding entity: Universitat Politècnica de València **Type of entity:** University
Date of qualification: 1999

2 **University degree:** Higher degree
Name of qualification: Licenciado en Bioquímica
Degree awarding entity: Universitat de València **Type of entity:** University
Date of qualification: 1997

Doctorates

Doctorate programme: Doctorado en Química
Degree awarding entity: Universitat Politècnica de València **Type of entity:** University
Date of degree: 09/2001

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Catalan		C1	C1	C1	C1
Spanish		C1	C1	C1	C1
French		C1	C1	C1	C1
English		C1	C1	C1	C1

Teaching experience

General teaching experience

Name of the course: Macro and Supramolecular chemistry
University degree: Máster en Nanociencia y Nanotecnologia
Start date: 2006
Entity: Universitat Rovira i Virgili **Type of entity:** University

Experience supervising doctoral thesis and/or final year projects

1 **Project title:** Earth-abundant based nanostructured catalysts for CO2 Reduction
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Beatriu Domingo Tafalla
Date of reading: 15/11/2024

2 **Project title:** Synthetic Approaches for the Development of Organic Molecules and their Application
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Dora Alejandra González Ruiz
Date of reading: 16/05/2024

3 **Project title:** Self-assembled molecules as selective contacts in quantum-dot light emitting diodes
Entity: Universitat de Barcelona **Type of entity:** University
Student: Sarika Kumari
Date of reading: 20/12/2023

4 **Project title:** Low-Molecular Weight Molecules as Selective Contacts for Perovskite Solar Cells
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Ece Aktas
Date of reading: 28/09/2021

5 **Project title:** Analysis of the Different Kinetic Processes in Perovskite Solar Cells
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Jesús Jiménez López
Date of reading: 22/11/2019

6 **Project title:** Advanced Characterization and Modelling of Charge Transfer in Perovskite Solar Cells
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Ilario Gelmetti
Date of reading: 15/07/2019

7 **Project title:** Low-molecular Weight Organic Semiconductors for Organic and Perovskite Solar Cells
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Cristina Rodríguez Seco
Date of reading: 21/06/2019

8 **Project title:** Optoelectronics properties of Quantum Dots for Biomedicine and Energy-to-light
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Sofía Paulo Mirasol
Date of reading: 14/06/2019

9 **Project title:** Semiconductor Nanoparticles as Platform for Bio-Applications and Energy Related Systems
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Alba Maria Matas Adams
Date of reading: 25/11/2015

10 **Project title:** Solution Processed Inorganic Semiconductor Solar Cells
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Jose Manuel Marin Beloqui
Date of reading: 23/11/2015

11 **Project title:** Relationships between opto-electronic properties,molecular structure and morphology in fullerenecontaining solar cells
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Daniel Fernandez Pinto
Date of reading: 21/10/2015

12 **Project title:** Design and synthesis of small molecules for Organic and Grätzel Solar Cells
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Lydia Cabau Parra
Date of reading: 10/07/2014

13 **Project title:** Analysis of key loss mechanisms in organic solar cells
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Núria Fernández Montcada
Date of reading: 08/07/2014

14 **Project title:** Exploring novel dye concepts in dye sensitized solar cells
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Laia Pellejà i Puxeu
Date of reading: 05/06/2014

15 **Project title:** Bioapplications for nanoparticles
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Iván Castelló Serrano
Date of reading: 26/06/2013

16 **Project title:** Organic bulk-heterojunction potovoltaic devices: materials, device architecture and interfacial processes
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Margherita Bolognesi
Date of reading: 07/06/2013

17 **Project title:** Small molecule solar cells: role of architecture on device performance
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: James Ryan
Date of reading: 06/06/2013

18 **Project title:** Photo-Induced Charge Transfer Reactions in Quantum Dot Based Solar Cells”
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Josep Albero Sancho

Date of reading: 30/01/2012

19 **Project title:** Interfacial charge recombination dynamics and the role of the morphology in roganic solar cells"
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Antonio Sánchez Díaz
Date of reading: 27/04/2011

20 **Project title:** Design and synthesis of organic sensitizers for dye solar cells: Molecular structure vs device performance"
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Miquel Àngel Planells Dillundé
Date of reading: 28/10/2010

21 **Project title:** Ruthenium Polypyridyl complexes as photosensitizers for molecular photovoltaic devices: influence of the dye structure and the presence of additives to the device performance"
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Anna Reynal Verdú
Date of reading: 21/10/2010

22 **Project title:** Development of an optical fiber probe for mercury detection"
Entity: Universitat Rovira i Virgili **Type of entity:** University
Student: Javier Pérez Hernández
Date of reading: 11/07/2008

Student tutorials

Name of the programme: Máster Nanociencia y Nanotecnologia
Entity: Universitat Rovira i Virgili **Type of entity:** University

Plurality, interdisciplinarity and teaching complexity

Since forming the group at ICIQ, Prof. Emilio Palomares structured the research staff to consolidate an excellent environment that ensures the correct training of graduate students and researchers employed as laboratory technicians. The group's multidisciplinary nature extends researchers' knowledge and gives them a broad overview of chemistry.

At the Institute of Chemical Research of Catalonia (ICIQ), I have successfully directed **20 PhD theses** (5 more researchers are right now engaged on their PhD studies), 3 of them have been awarded with the Best PhD Thesis Award of the Year by the Rovira i Virgili University, Tarragona, Spain.

I have also supervised **21 post-Doctoral researchers** and 20 master's and several undergraduate students' final-year research projects on solar energy.

I am very proud that several of my former PhD students now hold positions in academia or industry in Europe and overseas:: Dr. James W. Ryan – Lecturer at Swansea University (UK), Dr. Margherita Bolognesi – Researcher at the ISMN CNR, Bologna (Italy), Dr. Ivan Castello – Researcher at the University of Virginia (USA), Dr. Vijay Kumar Challuri – Researcher at the Université de Picardie (France), Dr. Taye Zewdu – Lecturer at AAiT, AAU, Addis Ababa (Ethiopia), Dr. Josep Albero – Researcher at ITQ Universitat Politècnica de Valencia (Spain), Dr. Miquel Planells – Material Scientist (R&D) at Tracerco Ltd (Spain), Dr. Amparo Forneli – Universitat Politècnica de Valencia (Spain), Dr. Aurelien, Viterisi – Teaching and Research fellow at UPPA (France), Dr. Jose Manuel Beloqui – Researcher at the University of Malaga (Spain), Dr. Cristina Rodriguez Seco – Researcher at the

Institute National de la Recherche Scientifique (Canada), Dra. Laia Pellejà- director iCERCA (Catalan Research Centres).

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:** EXCITED: Engineering Excited States, Orbital Coupling and Quantum Coherence Phenomena in Photoelectrochemical Energy Conversation Devices
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares Gil
Funding entity or bodies:
European Research Council Executive Agency, ERCEA (European commission). Horizon Europe ERC Advanced

Start-End date: 01/09/2023 - 31/08/2028
Total amount: 2.500.000 €

2 **Name of the project:** PEARL: Flexible Perovskite Solar Cells with Carbon Electrodes
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
City of entity: Tarragona, Cataluña, Spain
Name principal investigator (PI, Co-PI....): Emilio Palomares Gil
Funding entity or bodies:
European Climate, Infrastructure and Environment Executive Agency (EU Administration). Horizon Europe

Start-End date: 01/10/2023 - 30/09/2026
Total amount: 420.313 €

3 **Name of the project:** ELECTROVOLT: Electrovoltaic materials for CO2 reductioN
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
City of entity: Tarragona, Cataluña, Spain
Name principal investigator (PI, Co-PI....): Emilio Palomares Gil
Start-End date: 01/09/2023 - 31/08/2026
Total amount: 332.500 €

4 **Name of the project:** CESC: Conversion of Energy in Sustainable Chemicals
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
Funding entity or bodies:
SGR AGAUR - Agència de Gestió d'Ajuts Universitaris i de Recerca **Type of entity:** State agency

Name of the programme: Ajuts per finançar projectes de recerca per la Mitigació i adaptació al Canvi Climàtic
Code according to the funding entity: 2023 CLIMA 00067
Start-End date: 29/01/2024 - 28/01/2026
Total amount: 90.000 €

5 **Name of the project:** NEFERTITI: Innovative photocatalysts integrated in flow photoreactor systems for direct CO2 and H2O conversion into solar fuels
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
City of entity: Tarragona, Cataluña, Spain
Name principal investigator (PI, Co-PI....): Emilio Palomares Gil
Funding entity or bodies:
European Commission (EU Administration). Horizon 2020-LC-SC3-RES-3-2020

Start-End date: 01/07/2021 - 30/06/2025
Total amount: 363.750 €

6 **Name of the project:** PHOTORED: Photocatalytic Co2 Reductions by Green Hydrogen
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
City of entity: Tarragona, Cataluña, Spain
Name principal investigator (PI, Co-PI....): Emilio Palomares Gil
Funding entity or bodies:
Ministerio de Ciencia e Innovación **Type of entity:** Agencia estatal

Start-End date: 01/11/2021 - 31/10/2024
Total amount: 198.500 €

7 **Name of the project:** SOLARCO: Solar Energy Driven CO2 Reduction
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
City of entity: Tarragona, Cataluña, Spain
Name principal investigator (PI, Co-PI....): Emilio Palomares Gil
Funding entity or bodies:
Ministerio de Ciencia e Innovación/AEI/EU/PRTR **Type of entity:** State agency

Start-End date: 01/12/2022 - 30/10/2024
Total amount: 234.485 €

8 **Name of the project:** SOL-Future: Solar Catalysis for a Renewable Energy Future ()
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ) **Type of entity:** State agency
City of entity: Tarragona, Cataluña, Spain
Name principal investigator (PI, Co-PI....): Emilio Palomares Gil
Funding entity or bodies:
Ministerio de Ciencia e Innovación **Type of entity:** -

Start-End date: 01/12/2021 - 30/10/2024
Total amount: 169.075 €

9 **Name of the project:** LIGHT4LUNGS Inhalable Aerosol Light Source for Controlling Drug-Resistant Bacterial Lung Infections
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
City of entity: Tarragona, Cataluña, Spain
Name principal investigator (PI, Co-PI....): Santi Nollel; Emilio Palomares
Funding entity or bodies:
European Commission

Type of participation: Socio del consorcio
Name of the programme: H2020-FETOPEN-2018-2020
Code according to the funding entity: 863102
Start-End date: 01/12/2019 - 31/05/2024

Total amount: 372.500 €

10 **Name of the project:** DECADE Distributed chemicals and fuels production from CO2 in photoelectrocatalytic devices
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
Name principal investigator (PI, Co-PI....): José Ramón Galán; Emilio Palomares
Funding entity or bodies:
European Collaborative Projects **Type of entity:** 0

Type of participation: Others
Name of the programme: H2020-NMBP-25-2019
Code according to the funding entity: 862030
Start-End date: 01/05/2020 - 30/04/2024
Total amount: 269.468 €

11 **Name of the project:** INTEGRA2: Integración de celdas solares moleculares y electrocatálisis para la reducción de CO2
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
Funding entity or bodies:
Ministerio de Ciencia e Innovación **Type of entity:** .

Name of the programme: MICIN Proyectos I+D 2019
Code according to the funding entity: INTEGRAD2 PID2019-109389RB-I00
Start-End date: 01/06/2020 - 31/05/2023
Total amount: 254.100 €

12 **Name of the project:** Grup de recerca en materials i dispositius optoelectrònics (AGAUR 2017)
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
AGAUR

Name of the programme: Suport a la recerca SGR AGAUR
Code according to the funding entity: 2017SGR978
Start-End date: 01/01/2017 - 30/09/2021
Total amount: 44.480 €

13 **Name of the project:** Time resolved spectroscopic integral system (TAS)
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
MINECO

Name of the programme: MICIU Equipamiento Científico-técnico
Code according to the funding entity: TAS EQC2018-005188-P
Start-End date: 01/01/2018 - 31/12/2019
Total amount: 127.923 €

14 **Name of the project:** Charge Transfer on hybrid photovoltaic devices: semiconductor nanocrystals/organic semiconductor molecule (FotoTransfer)
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:

MINECO

Name of the programme: MINECO Proyectos I+D-Retos
Code according to the funding entity: Foto Transfer CTQ2016-80042-R(FEDER)
Start-End date: 30/12/2016 - 29/12/2019
Total amount: 166.980 €

15 **Name of the project:** Grup de recerca en materials i dispositius optoelectrònics (AGAUR 2014)
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
AGAUR

Name of the programme: Suport a la recerca SGR AGAUR
Code according to the funding entity: 2014SGR763
Start-End date: 01/01/2014 - 31/12/2016
Total amount: 17.200 €

16 **Name of the project:** Nanocristales semiconductores y moléculas orgánicas de bajo peso molecular para dispositivos que convierten luz solar en energía
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
MINECO

Name of the programme: MINECO Proyectos I+D-Retos
Code according to the funding entity: CTQ2013-47183-R
Start-End date: 01/01/2014 - 31/12/2016
Total amount: 182.710 €

17 **Name of the project:** Ratiometric FRET Based Nanosensors for Trypsin Related Human Recessive Diseases (2NanoSi)
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
European Research Council

Name of the programme: ERC Proof of Concept 2014
Code according to the funding entity: ERC-PoC-665775
Start-End date: 01/04/2015 - 31/03/2016
Total amount: 150.000 €

18 **Name of the project:** Advanced Design and Industrialization of Organic Sensitizers without Ruthenium for Dye Sensitised Solar cells (Adios-Ru)
Entity where project took place: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
Comissió Europea

Name of the programme: Col·laboratiu FP7-SME-2012
Code according to the funding entity: 315131
Start-End date: 01/11/2012 - 31/10/2014
Total amount: 359.040 €

19 **Name of the project:** Control of the Electronic Properties in Hybrid- Quantum Dot/Polymer-Materials for Energy Production (POLYDOT)
Entity where project took place: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
European Research Council

Name of the programme: ERC Starting Grant 2009 FP7-ERC-2008-StG
Code according to the funding entity: ERC-StG-239582
Start-End date: 01/11/2009 - 31/10/2014
Total amount: 1.299.960 €

20 **Name of the project:** Laboratori de materials i dispositius optoelectrònics (AGAUR 2009)
Entity where project took place: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
AGAUR

Name of the programme: Suport a la recerca SGR AGAUR
Code according to the funding entity: 2009SGR207
Start-End date: 03/10/2009 - 05/05/2014
Total amount: 65.520 €

21 **Name of the project:** Estudios de moléculas óptica y electroquímicamente activas y su aplicación en dispositivos fotovoltaicos y electroluminiscentes moleculares
Entity where project took place: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
MINECO

Name of the programme: MINECO Investigación fundamental no orientada
Code according to the funding entity: CTQ2010-18859
Start-End date: 01/01/2011 - 31/12/2013
Total amount: 75.020 €

22 **Name of the project:** Hybrid Optoelectronic and Photovoltaic Devices for Renewable Energy (CSD HOPE)
Entity where project took place: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
MINECO

Type of participation: Socio del consorcio
Name of the programme: CONSOLIDER
Code according to the funding entity: CSD (HOPE)
Start-End date: 01/04/2010 - 09/06/2013
Participating entity/entities: Centro de Tecnologías Electroquímicas; ICFO; ICIQ; ICMSE; Ikerlan; Universidad de Alicante; UCLM; Universitat Jaume I; Universidad Miguel Hernández de Elche; UPCAT; UPCTG; Universidad Pablo de Olavide; Universitat Rovira i Virgili
Total amount: 412.372 €

23 **Name of the project:** Grup de Treball FOLAEP
Entity where project took place: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
ACC1Ó

Name of the programme: Xarxa Connect-EU Ajuts a la innovació 2010
Code according to the funding entity: XCEU10-1-0010
Start-End date: 01/01/2010 - 31/12/2012
Total amount: 6.200 €

24 **Name of the project:** Efficient and Robust Dyesensitized Solar Cells and Modules (ROBUST)
Entity where project took place: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
Comissió Europea

Name of the programme: Col.laboratiu FP7-Energy-2007
Code according to the funding entity: 212792
Start-End date: 01/02/2008 - 31/01/2011
Total amount: 302.520 €

25 **Name of the project:** Estudio de moléculas óptica y electroquímicamente activas y su aplicación en dispositivos fotovoltaicos moleculares
Entity where project took place: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
MINECO

Name of the programme: MINECO Investigación fundamental no orientada
Code according to the funding entity: CTQ2007-60746
Start-End date: 01/10/2007 - 30/09/2010
Total amount: 133.100 €

26 **Name of the project:** Nuevos dispositivos fotovoltaicos basados en materiales moleculares: Conceptos y tecnologías de fabricación (FOTOMOL)
Entity where project took place: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
MINECO

Name of the programme: MINECO Proyectos singulares
Code according to the funding entity: PSE-120000-2009-008
Start-End date: 01/01/2009 - 30/06/2010
Total amount: 414.500 €

27 **Name of the project:** Nuevos dispositivos fotovoltaicos basados en materiales moleculares: Conceptos y tecnologías de fabricación (FOTOMOL)
Entity where project took place: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
MINECO

Name of the programme: MINECO Proyectos Singulares
Code according to the funding entity: PSE-120000-2008-003
Start-End date: 01/01/2008 - 31/01/2010
Total amount: 490.000 €

28 **Name of the project:** Coordination Action Towards Stable and Low-Cost Organic Solar Cell Tecnologies and Their Application (OrgaPVNet)
Entity where project took place: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
Comissió Europea

Name of the programme: Col.laboratiu FP6-Energy-2007
Code according to the funding entity: 38889
Start-End date: 01/11/2006 - 31/07/2009
Total amount: 43.201 €

29 **Name of the project:** Nanocrystalline Heterosupermolecular Materials for Optoelectronic Applications (HETEROMOLMAT)
Entity where project took place: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
Comissió Europea

Name of the programme: Col.laboratiu FP6-NMP-2003
Code according to the funding entity: 516982 (COORDINATOR)
Start-End date: 01/01/2005 - 31/10/2008
Total amount: 212.501 €

30 **Name of the project:** Hybrid Molecular Materials with Relevance in Magnetism and Molecular Electronics
Entity where project took place: Instituto de Ciencia Molecular **Type of entity:** University Research Institute
Name principal investigator (PI, Co-PI....): Prof. Eugenio Coronado
Funding entity or bodies:
MEC (Spanish Office of Science)

Start-End date: 13/12/2004 - 13/12/2007 **Duration:** 3 years
Participating entity/entities: Instituto de Ciencia Molecular-UV

31 **Name of the project:** Celdas Solares Moleculares
Entity where project took place: Generalitat Valenciana **Type of entity:** -
Name principal investigator (PI, Co-PI....): Dr. Emilio Palomares
Start-End date: 2006 - 2007 **Duration:** 1 year

32 **Name of the project:** Nanopartículas Semiconductoras para Energía Solar
Entity where project took place: PROFIT (MICYT)
Name principal investigator (PI, Co-PI....): Francisco Estela (coordinador del proyecto); Emilio Palomares
Start-End date: 2006 - 2007 **Duration:** 1 year

33 **Name of the project:** Paneles Solares Moleculares
Entity where project took place: Generalitat Valenciana **Type of entity:** -
Name principal investigator (PI, Co-PI....): Emilio Palomares
Start-End date: 2005 - 2006 **Duration:** 1 year

34 **Name of the project:** Sensores Optoelectrónicos par la Detección de Sustancias Nocivas para la Salud y el Medio Ambiente
Entity where project took place: Generalitat Valenciana **Type of entity:** -
Name principal investigator (PI, Co-PI....): Emilio Palomares
Start-End date: 2005 - 2006 **Duration:** 1 year

35 **Name of the project:** The Faculty of Physical Sciences Proof of Concept Fund
Entity where project took place: Imperial College
City of entity: London, United Kingdom
Name principal investigator (PI, Co-PI....): Dr. James R. Durrant
Funding entity or bodies:
Imperial College of Science

Technology and Medicine

Start-End date: 01/12/2004 - 01/12/2005 **Duration:** 1 year

36 **Name of the project:** Polímeros conductores dopados con polioxometalatos electroactivos para su utilización como electrodos inyectores de carga en dispositivos orgánicos emisores de luz (OLED´s) y en células fotovoltaicas orgánicas- GV2004-A-118.
Entity where project took place: Instituto de Ciencia Molecular **Type of entity:** University Research Institute
Name principal investigator (PI, Co-PI....): Carlos Jiménez (ICMol-UV)
Funding entity or bodies:
Generalitat Valenciana **Type of entity:** -
City funding entity: Valencia, Comunitat Valenciana, Spain

Start-End date: 2004 - 2005 **Duration:** 1 year

37 **Name of the project:** Molecular Solar Cells
Entity where project took place: Imperial College
City of entity: London, United Kingdom
Name principal investigator (PI, Co-PI....): Dr. James R. Durrant
Funding entity or bodies:
Imperial College of Science, Technology and Medicine

Start-End date: 07/10/2001 - 31/08/2004 **Duration:** 2 years - 10 months - 24 days

38 **Name of the project:** Nanocrystalline Dye Sensitised Solar Cells Having Maximum Performance
Entity where project took place: Imperial College o Science, Technology and Medicine
City of entity: London, United Kingdom
Name principal investigator (PI, Co-PI....): Dr. James R. Durrant
Funding entity or bodies:
Imperial College of Science

Technology and Medicine

Start-End date: 07/10/2001 - 18/08/2004 **Duration:** 2 years - 10 months - 11 days

39 **Name of the project:** Towards the Control of Charge Recombination Processes in Dye Sensitised Photovoltaic Cells. Marie Curie European Fellowship Contract HPMF-CT-2002-01744
Entity where project took place: Imperial College of Science, Technology and Medicine
Name principal investigator (PI, Co-PI....): Dr. James R. Durrant
Funding entity or bodies:
Imperial College of Science, Technology and Medicine. Centre for Electronic Materials and Devices.

Start-End date: 14/06/2002 - 14/05/2004 **Duration:** 1 year - 11 months

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

1 **Name of the project:** Dispositivos híbridos luminiscentes preparados por impresión para aplicaciones en sectores industriales y de gran consumo (HYPRINT)
Entity where project took place: Fundació Institut Català d'Investigació Química (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
CDTI

Centro para el Desarrollo Tecnológico Industrial **Type of entity:** Business
City funding entity: Madrid, Madrid, Comunidad de, Spain

Name of the programme: Programa CIEN
Start date: 01/11/2014 **Duration:** 3 years
Total amount: 100.000 €

2 **Name of the project:** Nanocristales luminiscentes para aplicaciones biológicas
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
Ikerlan **Type of entity:** Innovation and Technology Centres
City funding entity: Arrasate, País Vasco, Spain

Start date: 2010 **Duration:** 3 years

3 **Name of the project:** Multiplicación de esfuerzos para el desarrollo. Innovación, Optimización y diseño de Invernaderos avanzados (CENIT Mediodia)
Entity where project took place: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
Centro para el Desarrollo Tecnológico Industrial **Type of entity:** Business
City funding entity: Madrid, Madrid, Comunidad de, Spain

Name of the programme: CENIT Mediodía

Start date: 01/10/2008 **Duration:** 2 years
Total amount: 323.600 €

4 **Name of the project:** Dye Sensitised Solar Cells-CENIT Mediodía
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
ACCIONA SOLAR

Start date: 2008 **Duration:** 4 years

5 **Name of the project:** Dispositivos fotovoltaicos híbridos
Name principal investigator (PI, Co-PI....): Emilio Palomares
Funding entity or bodies:
ACCIONA SOLAR

Start date: 2007 **Duration:** 1 year

6 **Name of the project:** Escalado de dispositivos fotovoltaicos y luminiscentes orgánicos e híbridos mediante distintas técnicas pre-industriales
Funding entity or bodies:
FUNDACION PRIVADA CETEMMSA
City funding entity: Spain

Start date: 2007 **Duration:** 9 years

Results

Industrial and intellectual property

1 **Title registered industrial property:** Ratiomeric assay for hydrolytic enzyme quantification
Inventors/authors/obtainers: Emilio Palomares Gil; Georgiana Stoica; Iván Castelló Serrano
Entity holder of rights: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Nº of application: 13382239.5-1405
Date of register: 2013

2 **Title registered industrial property:** Chemical sensors
Inventors/authors/obtainers: Durrant, James; Palomares, Emilio; Vilar, Ramon.
Entity holder of rights: Imperial College Innovations Limited
Nº of application: USXXCO US 2006144720 A1 20060706
Country of inscription: United States of America

3 **Title registered industrial property:** Colorimetric Sensors for Cyanide Detection
Inventors/authors/obtainers: Palomares Gil, Emilio J.; Coronado Miralles, Eugenio; Torres Cebada, Tomas; Martinez Diaz, Victoria
Entity holder of rights: Universitat de València - Universidad Autonoma de Madrid
Nº of application: SPXXAD ES 2303756 A1 20080816 CAN 150:25912 AN 2008:1166731

4 **Title registered industrial property:** Colorimetric analytical procedure for detection of cyanide based anions derived from subphthalocyanine.
Inventors/authors/obtainers: Palomares Gil, Emilio J.; Coronado Miralles, Eugenio; Torres Cebada, Tomas; Martinez Diaz, Victoria

Entity holder of rights: Universitat de València - Universidad Autonoma de Madrid
Nº of application: SPXXAD ES 2303756 A1 20080816 CAN 150:25912 AN 2008:1166731

5 **Title registered industrial property:** Low Temperature Metal Oxide Coating
Inventors/authors/obtainers: Emilio Palomares; John N. Clifford; Saif A. Haque; Thierry Lutz; James R. Durrant
Entity holder of rights: Imperial College
Nº of application: 0217990.1.
Country of inscription: United Kingdom

6 **Title registered industrial property:** Mercury scavenging
Inventors/authors/obtainers: Durrant, James; Palomares, Emilio; Xiaoe, Li
Entity holder of rights: Imperial Innovations Limited, UK; Institute of Chemical Research of Catalonia (ICIQ)
Nº of application: PIXXD2 WO 2008025977 A1 20080306

7 **Title registered industrial property:** Tri-tert-butylcarboxyphthalocyanines, uses thereof and a process for their preparation.
Inventors/authors/obtainers: Torres Cebada, Tomas; Cid Martin, Juan Jose; Nazeerudin, Mohammad Khaja; Yum, Jun Ho; Graetzel, Michael; Palomares, Emilio
Entity holder of rights: Universidad Autonoma de Madrid, Spain; Institut Catala de Investigacio Quimica; Ecole Polytechnique Federale de Lausanne
Nº of application: PIXXD2 WO 2008145172 A1 20081204

Knowledge transfer and exchange

Prof. Palomares's research group has received substantial funding from industry and public funding agencies at the regional, national, and European levels. Back in 2006, ACCIONA (**Acciona Solar**), one of the largest Spanish companies investing in renewable energy, funded for 4 years the research of the group in dye-sensitized solar cells. Before, in 2004, **ATERSA**, a Spanish SME, supported its investigation into solar cells. Overall, Prof. Palomares's group has permanent industrial collaborations with energy and/or materials companies for 100.000€/year. Moreover, Emilio was the coordinator of the largest industrial project to study molecular solar cells in Spain, involving 6 public research centers, 2 technological centers, and 3 industries funded by the Spanish government with 871.200€ for 2 years. Since 2020, he has coordinated scientific and industrial actions between ICIQ and the **AEQT** (Industrial Chemical Association of Tarragona), Eurecat, and URV University. Several companies are commercializing molecules designed and developed by Palomares's group at ICIQ. In particular, the molecules EADR03 and EADR04, which Luminescence Technology Corp. (Lumtec) and Dyenamo commercialize.

Our group has established collaborations with international and national research groups such as Prof. James R. Durrant (Imperial College, UK), Prof. Nazeruddin (EPFL, Switzerland), Prof. Yun Chi (Taiwan National University, Taiwan), Prof. Juan Bisquert (UJI, Spain), Prof. Tomas Torres (UAM, Spain), Dr. Neil Robertson (Edinburgh University, UK), Prof. G. D. Sharma (JNV University, India), Prof. Jenny Nelson (Imperial College, UK), Prof. Filippo de Angelis (CNRS, Italy), Prof. Fernando Langa (UCLM, Spain), Prof. Nazario Martin (UCM, Spain), Prof. Arie Zaban (Bar-Ilan University, Israel), Dr. Renaud Demadrille (CNRS, France) among other top scientists.

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

1 Sandra Castanié; Léonard Curet; Emilio Palomares; Aurélien Viteresi; Laurent Billon. pH-Sensitive and Self-Regenerative Honeycomb Polymer Membrane-Electrode Assembly for CO2 Reduction: Shifting Selectivity toward C2 Molecules. ChemSusChem. 18 - 23, pp. e202501620. Chemistry Europe, 12/2025.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 5

2 Heng Wu; Laia Marín-Moncusí; Jing Li; Eugenia Martínez-Ferrero; Peng Wang; Emilio Palomares. Co-Sensitized Solar Cell Achieves 13.7% Efficiency with Bis-Hexylthiophene Dyes. Advanced Science. 12 - 42, pp. e09116. Wiley Advanced, 11/2025.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 6

3 María Pilar Montgero-Rama; Domenico Grammatico; Janine Lichtenberger; Virginie Pellerin; Emilio Palomares; Laurent Billon; Lluis F. Marsal; Aurelien Viteresi. Nanoporous anodic alumina-based gas diffusion layers for the electroreduction of CO2. Sustainable energy & fuels. 10, pp. 206 - 210. Royal Society of Chemistry, 11/2025.
Type of production: Scientific paper
Total no. authors: 8

4 Leonard Curet; Abdel Khoukh; Wiliam Lafargue Dit Hauret; Marta Martinez-Belmonte; Francis Ehrenfeld; Didier Begué; Laurent Billon; Emilio Palomares; Pablo Ballester; Aurelien Viteresi. Assessment of the Association Constant of the CO2@CB[6] Complex Combining 1H and 13C NMR Spectroscopic Titrations. ChemPlusChem. 90 - 10, pp. e202500209. Chemistry Europe, 10/2025.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 10

5 Fraser J. Angus; Lewis Mackenzie; Marcin Giza; Dylan Wilkinson; Elisabetta Arca; Emilio Palomares; Wenhui Li; Pablo Docampo; Graeme Cooke. The case against hole injection through SAMs in perovskite solar cells. Journal of Materials Chemistry A. 13, pp. 38140 - 38148. Royal Society of Chemistry, 10/2025.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 9

6 Laia Marín-Moncusí; Carlos E. Puerto Galvis; Eugenia Martínez-Ferrero; Emilio Palomares. The Anthranil Core as a π-Conjugated Bridge in the Synthesis of Molecular Photosensitizers. The Journal of Organic Chemistry. 90 - 30, pp. 10908 - 10912. ACS Publications, 07/2025.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 4

7 Maria Méndez; Abarna Sekar; Dylan Wilkinson; Margarita Gracia; Andrea di Vera; Laia Marín-Moncusí; José G. Sánchez; Fabian Pino; Rafael S. Sánchez; Iván Mora-Seró; Michele Cariello; Emilio Palomares; Graeme Cooke; Eugenia Martinez-Ferrero. Application of Naphthalenediimide Derivatives as Self-Assembled Electron Selective Contacts in CdSe@ZnS Quantum Dots LEDs. Materials and Sustainability. 1 - 2, Scilight, 06/2025.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 14

8 José Manual Ramón; José G. Sánchez; Miriam Más-Montoya; Wenhui Li; Eugenia Martínez-Ferrero; Emilio Palomares; David Curiel. Revealing the Role of Spacer Length and Methoxy Substitution of Dipodal Indolocarbazole-based SAMs on the Performance of Inverted Perovskite Solar Cells. Nano Micro Small. 21 - 22, pp. 2500067. Wiley, 06/2025.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 7

9 Adrián Hernández; José G. Sánchez; Javier Ortiz; Eugenia Martínez-Ferrero; Emilio Palomares; Ángela Sastre-Santos. Tri-tert-butyl arylamine zinc phthalocyanine derivatives as p-type self-assembled molecules for efficient perovskite solar cells. Journal of Materials Chemistry C. 13, pp. 15977 - 15987. Royal Society of Chemistry, 06/2025.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 6

10 Alexis Villanueva-Antoli; Laia Marín-Moncusí; Carlos E. Puerto Galvis; Rafael S. Sánchez; Jorge Simancas; Eva M. Barea; Jhonatan Rodríguez-Pereira; Carina Pareja-Rivera; Andrés F. Gualdrón-Reyes; Emilio Palomares; Eugenia Martínez-Ferrero; Iván Mora-Seró. Coverage Contact Control of Benzoxazole-Based SAMs to Enhance the Operational Performance of Perovskite Nanocrystal Light–Emitting Diodes. Advanced Materials Interfaces. 12 - 10, pp. 2400884. Wiley Advanced, 05/2025.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 12

11 Clara A. Aranda; Wenhui Li; Eugenia Martínez-Ferrero; Paul Pistor; Gerko Oskam; Emilio Palomares; Juan A. Anta. Insights from Impedance Spectroscopy in Perovskite Solar Cells with Self-Assembled Monolayers: Decoding SAM's Tricks. The Journal of Physical Chemistry Letters. 16 - 9, pp. 2301 - 2308. ACS Publications, 02/2025.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 7

12 Leonard Curet; Dominique Foix; Stephane Ducos; Laurent Billon; Emilio Palomares; Aurelien Viteresi. Structure–property relationship of atomically-precise silver acetylide clusters in the electroreduction of CO2. Journal of Materials Chemistry A. 13, pp. 9791 - 9800. Royal Spociety of Chemistry, 02/2025.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 6

13 Andrea Cabrera-Espinoza; José G. Sánchez; Wenhui Li; Silvia Collavini; Maddi Ibañez-Etxeberria; Ivet Kosta; Magaly Ramírez-Como; Eugenia Martínez-Ferrero; Emilio Palomares; Juan Luis Delgado. Reducing Interfacial Recombination in Inverted Perovskite Solar Cells With Selenophene-Substituted PCBM: Comparison With Thiophene and Furan Substitution. ChemSusChem. 18 - 2, pp. e202400901. Chemistry Europ, 01/2025.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 10

14 Leonard Curet; William Lafargue dit-Hauret; Jordi Benet-Buchholz; Marta Martínez-Belmonte; Dominique Foix; Emilio Palomares; Laurent Billon; Didier Begué; Aurelien Viteresi. Self-assembled infinite silver cluster with atomic precision as a scalable catalyst for CO2-electroreduction under industry-relevant reaction rates. EES Catañysis. 3, pp. 286 - 296. Royal Society of Chemistry, 10/2024.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 9

15 Leonard Curet; Dominique Foix; Emilio Palomares; Laurent Billon; Aurelien Viteresi. Porphyrin-silver acetylide cluster catalysts with dual active sites for the electrochemical reduction of CO2. Chemical Communications. 60, pp. 10168 - 10171. Royal Society of Chemistry, 08/2024.
Type of production: Scientific paper **Format:** Journal

Total no. authors: 5

16 Fabio Vera; Pierre Marcasuzaa; Leonard Curet; Laurent Billon; Aurélien Viteresi; Emilio Palomares. Selectivity of a Copper Oxide CO2 Reduction Electrocatalyst Shifted by a Bioinspired pH-Sensitive Polymer. ACS Applied Materials & Interfaces. 16 - 34, pp. 45038 - 45048. ACS, 08/2024.
Type of production: Scientific paper **Format:** Journal
Total no. authors: 6

17 Tamal Chatterjee; Beatriu Domingo-Tafalla; Pablo Ballester; Emilio Palomares. Insights into the Interfacial Charge Transfer Dynamics in Semiconductor-Molecular Catalyst Assemblies for Photo-induced CO2 Reduction. ChemElectroChem. 11 - 11, pp. e202300620. Chemistry Europe, 06/2024.
Type of production: Scientific paper **Format:** Journal

18 Anna M. Beiler; Wenhui Li; Alisa Denisiuk; Emilio Palomares; Antoni Llobet. Solar hydrogen production from electrochemical ammonia splitting powered by a single perovskite solar cell. Journal of Energy Chemistry. 92, pp. 292 - 295. ScienceDirect, 05/2024.
Type of production: Scientific paper **Format:** Journal

19 Tawanwit Luangwanta; Silver-Hamil Turren-Cruz; Sofia Masi; Samrat Das Adhikari; Ileana B. Recalde; Marciela Zanatta; Diego Iglesias; Jhonatan Rodríguez-Pereira; Santi Gené-Marimon; Eugenia Mertínez-Ferrero; Sulawan Kaowphong; Emilio Palomares; Victor Sans; Andrés F. Gualdrón-Reyes; Iván Mora-Seró. Enabling white color tunability in complex 3D-printed composites by using lead-free self-trapped exciton 2D perovskite/carbon quantum dot inks. Nanoscale. 16, pp. 10262 - 10272. Royal Society of Chemistry, 04/2024.
Type of production: Scientific paper **Format:** Journal

20 Dora A. González; Carlos E. Puerto Galvis; Wnhui Li; Maria Méndez; José G. Sánchez; Eugenia Martínez-Ferrero; Emilio Palomares. Exploring the Interactions at the Interface: Tailoring Carbazole-Based Self-Assembled Molecules with Varying Functional Groups for Enhancing the Performance of Inverted Perovskite Solar Cells. Solar RRL. 2400242, Wiley, 04/2024.
Type of production: Scientific paper **Format:** Journal

21 Andrea Cabrera-Espinoza; Silvia Collavini; José G. Sánchez; Ivet Kosta; Emilio Palomares; Juan Luis Delgado. Photo-Cross-Linked Fullerene-Based Hole Transport Material for Moisture-Resistant Regular Fullerene Sandwich Perovskite Solar Cells. ACS Appl. Mater. Interfaces. 16 - 16, pp. 20852 - 20864. American Chemical Society, 04/2024.
Type of production: Scientific paper **Format:** Journal

22 Mohamed Samir; Enas Moustafa; Osbel Almora; Magaly Ramírez-Como; Maria Pilar Montero-Rama; José G. Sánchez; Emilio Palomares; Josep Pallarès; Lluis F. Marsal. CPE-Na-Based Hole Transport Layers for Improving the Stability in Nonfullerene Organic Solar Cells: A Comprehensive Study. ACS Appl. Mater. Interfaces. 16 - 13, pp. 16317 - 16327. 03/2024.
Type of production: Scientific paper **Format:** Journal

23 Eyyup Yalcin; Ece Aktas; Maria Méndez; Emre Arkan; José G. Sánchez; Eugenia Martínez-Ferrero; Francesco Silvestri; Esther Barrena; Mustafa Can; Serafettin Demic; Emilio Palomares. Monodentate versus Bidentate Anchoring Groups in Self-Assembling Molecules (SAMs) for Robust p–i–n Perovskite Solar Cells. ACS Appl Mater Interfaces. 15 - 49, pp. 57153 - 57164. American Chemical Society, 12/2023.
Type of production: Scientific paper **Format:** Journal

24 Carlos E. Puerto Galvis; Dora A. González Ruiz; Eugenia Martínez-Ferrero; Emilio Palomares. Challenges in the design and synthesis of self-assembling molecules as selective contacts in perovskite solar cells. Chemical Science. 15, pp. 1534 - 1556. Royal Society of Chemistry, 11/2023.
Type of production: Scientific paper **Format:** Journal

Total no. authors: 4

25 Carlos E. Puerto Galvis; Dora A. González; Eugenia Martínez-Ferrero; Emilio Palomares. Challenges in the design and synthesis of self-assembling molecules as selective contacts in perovskite solar cells. chemical Science. 15, pp. 1534 - 1556. Royal Society of Chemistry, 11/2023.
Type of production: Scientific paper **Format:** Journal

26 Ece Aktas; Isabella Poli; Corinna Ponti; Guixiang Li; Andrea Olivati; Diego Di Girolamo; Fahad Ahmed Alharthi; Meng Li; Emilio Palomares; Annamaria Petrozza; Antonio Abate. One-Step Solution Deposition of Tin-Perovskite onto a Self-Assembled Monolayer with a DMSO-Free Solvent System. ACS Energy Lett.8 - 12, pp. 5170 - 5174. American Chemical Society, 11/2023.
Type of production: Scientific paper **Format:** Journal

27 Giuseppina Anna Corrente; Dora A. González; Ece Aktas; Agostina Lina Capodilupo; Francesco Ruighi; Gianluca Accorsi; Daniela Imbardelli; Cristina Rodriguez-Seco; Eugenia Martínez-Ferrero; Emilio Palomares; Amerigo Beneduci. Reversible vis-NIR electrochromic/electrofluorochromic switching in dual-functional devices modulated by different benzothiadiazole-arylamine anodic components. Journal of Materials Chemistry C. 11, pp. 17115 - 17127. Royal Society of Chemistry, 11/2023.
Type of production: Scientific paper **Format:** Journal

28 Wnhui Li; Eugenia Martínez-Ferrero; Emilio Palomares. Self-assembled molecules as selective contacts for efficient and stable perovskite solar cells. Materials Chemistry Frontiers. 8, pp. 681 - 699. Royal ÇSociety of Chemistry, 11/2023.
Type of production: Scientific paper **Format:** Journal

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

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Type of production: Book chapter **Format:** Book

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Type of production: Book chapter

Works submitted to national or international conferences

1 **Title of the work:** The Contact Makes the Device: Molecules that Rule the Solar Cells Efficiency
Name of the conference: NIPHO25: International Conference on Perovskite Thin Film Photovoltaics and Perovskite Photonics and Optoelectronics
City of event: Cagliari, Italy
Date of event: 09/06/2026
End date: 09/06/2025
Organising entity: nanoGe Conferences / Scito **Type of entity:** Associations and Groups
City organizing entity: Valencia, Spain

2 **Title of the work:** Self-Assembling Molecules (SAMs) in Efficient and Stable Perovskite Solar Cells
Name of the conference: ICANMD-2026: International Conference on Advances in Nanoscale Materials and Devices
City of event: Sumel, India
Date of event: 19/02/2026
End date: 21/02/2026
Organising entity: The LNM Institute of Information Technology **Type of entity:** University Research Institute
City organizing entity: India
Emilio Palomares.

3 **Title of the work:** The Chemistry of Small Molecules for Energy Applications
Name of the conference: SHIFT Tenerife
City of event: La Laguna, Canarias, Spain
Date of event: 13/10/2025
Organising entity: Universidad de La Laguna **Type of entity:** University

4 **Title of the work:** The contact makes the device: molecules that rule the solar cells efficiency
Name of the conference: SPIE Optics + Photonics
City of event: San Diego, United States of America
Date of event: 07/08/2025
Organising entity: SPIE **Type of entity:** Associations and Groups

5 **Title of the work:** Solar Powered Hydrogen Catalysis
Name of the conference: H2Future25: Conference on The Future of Hydrogen: Science, Applications and Energy Transition
City of event: Ibiza, Balears, Illes, Spain
Date of event: 05/05/2025
End date: 05/05/2025
Organising entity: nanoGe Conferences / Scito **Type of entity:** Associations and Groups
City organizing entity: Valencia, Comunitat Valenciana, Spain

6 **Title of the work:** The Chemistry of Self-Assembling molecules as Selective Contacts in Molecular Solar cells
Name of the conference: Joint chemical Science RSC-CSJ Symposium
City of event: London, United Kingdom
Date of event: 30/10/2024
End date: 30/10/2024
Organising entity: Royal Society of Chemistry **Type of entity:** -
City organizing entity: London,

7 **Title of the work:** The Contact Makes the Device: Molecules that Rule the Solar Cells Efficiency
Name of the conference: XI REQOMED: Mediterranean Meeting of Organic Chemistry
City of event: Elche, Comunitat Valenciana, Spain
Date of event: 16/10/2024
End date: 16/10/2024
Organising entity: Universidad Miguel Hernández de Elche **Type of entity:** University
City organizing entity: Elche, Comunitat Valenciana, Spain

8 **Title of the work:** The Contact Makes the Device: Molecules that Rule the Solar Cells Efficiency.
Name of the conference: #NanoSeries2024: 3rd Annual Nanotechnology Conference
City of event: Lisboa, Portugal
Date of event: 17/06/2024
End date: 19/06/2024
Organising entity: Instituto Superior Técnico (IST, University of Lisbon)

9 **Title of the work:** Self-assembled molecules as a selective contact for molecular photovoltaics
Name of the conference: ESEMA workshop (Emerging Solar Energy Materials & Applications)
City of event: Virtual, France
Date of event: 27/05/2024
End date: 31/05/2024

Organising entity: Scienceconf

10 **Title of the work:** Molecular photovoltaic devices: The Central Role of Chemistry.
Name of the conference: 6th International Conference on Hybrid and Organic Photovoltaics (HOPV)
City of event: València, Comunitat Valenciana, Spain
Date of event: 13/05/2024
End date: 15/05/2024
Organising entity: nanoGe Conferences / Scito

11 **Title of the work:** Organizer
Name of the conference: The Future of Hydrogen: Science, Applications and Energy Transition
City of event: Ibiza, Balears, Illes, Spain
Date of event: 17/04/2024
End date: 19/04/2024
Organising entity: nanoGe Conferences / Scito

12 **Title of the work:** Advanced Spectroscial Characterization of CO2 coversion
Name of the conference: MATSUS Spring 2024 (Advances in Photo-driven Energy Conversion and Storage: From Nanoscale Materials to Sustainable Solutions symposium)
City of event: Barcelona, Cataluña, Spain
Date of event: 06/03/2024
End date: 06/03/2024
Organising entity: nanoGe Conferences / Scito

13 **Title of the work:** Molecular photovoltaic devices: The Central Role of Chemistry
Name of the conference: 16th International Conference on Organic Electronics (ICOE2023)
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 04/07/2023
End date: 07/07/2023
Organising entity: Facultad de Física, Universidad Complutense de Madrid **Type of entity:** University
City organizing entity: Madrid, Madrid, Comunidad de, Spain

14 **Title of the work:** Molecular solar cells: From Dyes to Hybrid Semiconductors
Name of the conference: NanoSpain Conference 2023
City of event: Tarragona, Cataluña, Spain
Date of event: 25/04/2023
End date: 25/04/2023
Organising entity: The Phantoms Foundation

15 **Title of the work:** #STECH – Sustainable Technology Forum
Name of the conference: MATSUS23: Materials for Sustainable Development Conference & Sustainable Technology Forum
City of event: Valencia, Comunitat Valenciana, Spain
Date of event: 08/03/2023
End date: 08/03/2023
Organising entity: nanoGe Conferences / Scito

16 **Title of the work:** Self assembling molecules as selective contacts in efficient and stable perovskite solar cells
Name of the conference: New Horizons in Photovoltaic Technologies Using Organic Materials

City of event: Virtual, United Kingdom
Date of event: 21/02/2023
End date: 21/02/2023
Organising entity: Loughborough University **Type of entity:** University

17 **Title of the work:** Molecular Solar Cells. From Dyes to Hybrid Semiconductors
Name of the conference: SHIFT 2022-Spectral s-HapIng for biomedical and energy applicaTions
City of event: Tenerife, Canarias, Spain
Date of event: 13/10/2022
End date: 13/10/2022
Organising entity: Universidad de La Laguna **Type of entity:** University
City organizing entity: Tenerife, Canarias, Spain
Emilio Palomares.

18 **Title of the work:** Water splitting using wired perovskite tandem solar cells and molecular catalysts
Name of the conference: E-MRS 2022 Spring Meeting Conference
City of event: Virtual,
Date of event: 02/06/2022
End date: 02/06/2022
Organising entity: European Materials Research Society
City organizing entity: Estrasburgo, France
Emilio Palomares.

19 **Title of the work:** Molecular Approaches to Energy Conversion
Name of the conference: Hybrid & Organic Photovoltaics International Conference HOPV22
City of event: Valencia, Comunitat Valenciana, Spain
Date of event: 23/05/2022
End date: 23/05/2022
Organising entity: nanoGe Conferences / Scito
City organizing entity: Valencia, Comunitat Valenciana, Spain
Emilio Palomares.

20 **Title of the work:** The Role of Interfaces on Perovskite Solar Cell Performance
Name of the conference: 2022 Gordon Research Conference on “Hybrid Electronic and Photonic Materials and Phenomena.”
City of event: Castelldefels, Cataluña, Spain
Date of event: 15/05/2022
End date: 15/05/2022
Organising entity: Gordon Research Conferences

21 **Title of the work:** Molecular Approaches to Energy Conversion
Name of the conference: 2nd Meeting Red MODE Photovoltaic
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 27/04/2022
End date: 27/04/2022
Organising entity: IMDEA-Nanoscience Institute
City organizing entity: Madrid, Madrid, Comunidad de, Spain
Emilio Palomares.

22 **Title of the work:** From Molecules to Energy Conversion Devices: A Spectroscopy Journey
Name of the conference: 4th “Hetero-elements and Coordination Chemistry: from Concepts to Applications” (HC3A) Meeting
City of event: Virtual, Spain
Date of event: 20/01/2022
End date: 20/01/2022
Organising entity: Universitat de Barcelona **Type of entity:** University
Emilio Palomares.

23 **Title of the work:** Understanding the perovskite/self-assembled selective contact interface for ultra-stabñe p-i-n and highly efficient perovskite solar cells
Name of the conference: XIX Brazil MRS Meeting & International Union of Materials Research Societies – International Conference on Electronic Materials (IUMRS-ICEM 2021)
City of event: Virtual, Brazil
Date of event: 02/09/2021
End date: 02/09/2021
Organising entity: Brazilian Materials Research Society (SBPMat)
City organizing entity: Rio de Janeiro, Brazil
Emilio Palomares.

24 **Title of the work:** Molecular Approaches to Energy Conversion
Name of the conference: Invited talk to University of Erlangen (Webinar)
City of event: Erlangen, Germany
Date of event: 07/06/2021
End date: 07/06/2021
Organising entity: University of Erlangen
City organizing entity: Erlangen, Germany

25 **Title of the work:** Molecular Selective Contacts in Perovskite Solar Cells
Name of the conference: Online Conference Organic Materials in Perovskite-based Optoelectronic Devices (OrgMatPerPV)
City of event: Spain
Date of event: 29/04/2021
End date: 30/04/2021
Organising entity: nanoGe Conferences / Scito

26 **Title of the work:** Molecular Approaches to Energy Conversion
Name of the conference: IN2UB INTERNATIONAL RESEARCH SEMINAR
City of event: Tarragona (Virtual), Cataluña, Spain
Date of event: 25/03/2021
End date: 25/03/2021
Organising entity: Institute of Nanoscience and Nanotechnology of the University of Barcelona
City organizing entity: Barcelona, Cataluña, Spain

27 **Title of the work:** Molecular Approaches to Energy Conversion
Name of the conference: Small Chem International Online Conference
City of event: Spain
Date of event: 17/02/2021
End date: 18/02/2021
Organising entity: The Phantoms Foundation
City organizing entity: Virtual, Spain

28 **Title of the work:** Molecular solar cells: from polymers to molecules and hybrid materials
Name of the conference: Online workshop "The Future of Renewable Energy in Scotland and Spain"
City of event: Virtual,
Date of event: 26/11/2020
End date: 26/11/2020
Organising entity: The University of Edinburgh **Type of entity:** University
City organizing entity: Edinburgh, United Kingdom
Emilio Palomares.

29 **Title of the work:** Energy, sustainability and chemistry
Name of the conference: NanotechExpo2020 and 1&2D Materials International Conference and Exhibition
City of event: Virtual, Japan
Date of event: 28/01/2020
End date: 28/01/2020
Organising entity: The Phantoms Foundation & The Institut Catala de Nanociencia I Nanotecnologia (ICN2)
City organizing entity: Spain
Emilio Palomares.

30 **Title of the work:** Seminarios de Master englobados dentro del Programa Master ChemBio&Mat USC
Name of the conference: Master ChemBio&Mat; Centro Singular de Investigación en Química Biológica y Materiales Moleculares (CIQUS) de la Universidade de Santiago de Compostela
City of event: Santiago de Compostela, Spain
Date of event: 12/11/2019
End date: 14/11/2019
Organising entity: Universidade de Santiago de Compostela
Emilio Palomares.

31 **Title of the work:** Carrier Recombination and Ion Migration: Role of the Contacts.
Name of the conference: NGMF19 NanoGe Fall Meeting Berlin
City of event: Berlin, Germany
Date of event: 04/11/2019
End date: 08/11/2019
Organising entity: nanoGe Conferences / Scito

32 **Title of the work:** Molecular Solar Cells Efficiency Losses Under Operando Conditions
Name of the conference: Invited talks Trinity College Dublin
City of event: Dublin, Ireland
Date of event: 02/10/2019
End date: 04/10/2019
Organising entity: Trinity College Dublin

33 **Title of the work:** Carrier Recombination and Ion migration Processes in Efficient Perovskite Solar Cells
Name of the conference: Research Network Perovskites for Solar Energy Conversion and Optoelectronics
City of event: Madrid, Spain
Date of event: 27/09/2019
End date: 27/09/2019
Organising entity: Institute of Advanved Materials UJI Castelló

34 **Title of the work:** Non conventional solar cells for water oxidation
Name of the conference: International Bunsen-Discussion-Meeting
City of event: Taormina, Italy
Date of event: 01/04/2019
End date: 05/04/2019
Organising entity: Deutsche Bunsen-Gesellchaft für physikalische Chemie e.V. (DBG)

35 **Title of the work:** Perovskite Solar Cells
Name of the conference: International Workshop & Conference on Perovskite & Hybrid Photovoltaics
City of event: New Delhi, India
Date of event: 04/02/2019
End date: 09/02/2019
Organising entity: Centre For Energy Studies, ITT Delhi

36 **Title of the work:** Energy Alignment and Recombination in Perovskite Solar Cells: Weighted Influence on the Open Circuit Voltage
Name of the conference: II Meeting of the Spanish Photovoltaic Excellence Network
City of event: Madrid, Spain
Date of event: 24/01/2019
End date: 25/01/2019
Organising entity: IMDEA

37 **Title of the work:** Going Slow to Go Far: A Scientific Journey To Power the World" and "A scientist life: and It Seems Like Yesterday To Me"
Name of the conference: Invited talk at UAM: XIV Yearly Cycle of Thematic Conferences 2018: "Nanoscience and Molecular Materials"
City of event: Madrid, Spain
Date of event: 18/12/2018
End date: 18/12/2018
Organising entity: Universidad Autónoma de Madrid **Type of entity:** University

38 **Title of the work:** Photo-induced charge recombination kinetics in hybrid lead perovskite solar cells
Name of the conference: 1st International Conference on NanoTechnologies and Bionanoscience (NanoBio 2018)
City of event: Heraklion, Crete, Greece
Date of event: 24/09/2018
End date: 28/09/2019
Organising entity: TEI of Crete and FORTH

39 **Title of the work:** Solar cell materials: efficiency and stability issues; Discussion pannel
Name of the conference: Scientific meeting : Materials challenges for sustainable energy technologies >The Royal Society at Chicheley Hall
City of event: Chicheley, Buckinghamshire, United Kingdom
Date of event: 19/09/2018
End date: 20/09/2019
Organising entity: The Royal Society London

40 **Title of the work:** Materials for energy conversion : Photovoltaics II (organic/hybrid PV materials & devices)
Name of the conference: MATENER 2018: Severo Ochoa Summer School in Materials for Energy /Institut de Ciència de Materials de Barcelona (ICMAB-CSIC)
City of event: Barcelona, Spain

Date of event: 17/09/2018
End date: 17/09/2018
Organising entity: ICMAB/Severo Ochoa

41 **Title of the work:** Dialogues on the boundaries of knowledge Biosensors for diagnostics
Name of the conference: Keynote speaker at 2018 BIST Conference
City of event: Barcelona, Spain
Date of event: 27/06/2018
End date: 27/06/2018
Organising entity: BIST (The Barcelona Institute of Science and Technology)

42 **Title of the work:** Conference Organizer & chair
Name of the conference: Conference Organizer of 10th International Conference on Hybrid and Organic Photovoltaics (HOPV18)
City of event: Benidorm, Spain
Date of event: 28/05/2018
End date: 31/05/2018
Organising entity: nanoGe Conferences / Scito

43 **Title of the work:** Non Conventional Solar Cells: Need of New Techniques for New Devices
Name of the conference: Invited talk at Chalmers University of Technology
City of event: Goteborg, Sweden
Date of event: 26/04/2018
End date: 26/04/2018
Organising entity: Chalmers University of Technology

44 **Title of the work:** Walking slow to go far: the slow road towards molecular photovoltaics
Name of the conference: Charla en la UAM
City of event: Madrid, Spain
Date of event: 14/11/2017
End date: 14/11/2017
Organising entity: Universidad Autónoma de Madrid

45 **Title of the work:** Carrier Recombination Kinetics at the Perovskite/Selective Contacts Interfaces
Name of the conference: 3rd International Conference on Perovskite Solar Cells and Optoelectronics (PSCO17)
City of event: Oxford, United Kingdom
Date of event: 18/09/2017
End date: 20/09/2017
Organising entity: University of Oxford

46 **Title of the work:** Organizer of: "SF2: Solution Processed Innovative Solar Cells"
Name of the conference: NanoGe September Meeting
City of event: Barcelona, Spain
Date of event: 04/09/2017
End date: 08/09/2017
Organising entity: nanoGe Conferences / Scito

47 **Title of the work:** Coordinador en el Simposio" S2.Materiales Orgánicos Optoelectronicos para Conversión de Energía"
Name of the conference: XXXVI Reunión Bienal de la Real Sociedad Española de Química

City of event: Sitges, Spain
Date of event: 26/06/2017
Organising entity: RSEQ

48 **Title of the work:** Invited Speaker en el SISF2017
Name of the conference: The 6th Sungkyun International Solar Forum 2017
City of event: Seul, Republic of Korea
Date of event: 14/06/2017
Organising entity: Sungkyunkwan University

49 **Title of the work:** Carrier recombination in perovskite solar cells
Name of the conference: 10th European School on Molecular Nanoscience (ESMolNa2017)
City of event: Madrid, Spain
Date of event: 08/05/2017
Organising entity: ICMOL

50 **Title of the work:** Perovskite solar cells
Name of the conference: Meeting at ITT (Milan)
City of event: Milan, Italy
Date of event: 04/05/2017
Organising entity: Center for Nano Science and Technology @Polimi Istituto Italiano di Tecnologia

51 **Title of the work:** Non-conventional solar cells: new techniques for new solar cell devices
Name of the conference: Charla en Institut de Ciència de Materials de Barcelona
City of event: Barcelona, Spain
Date of event: 24/04/2017
Organising entity: ICMAB

52 **Title of the work:** 1st Workshop on Future Emerging Technologies for Low Carbon Energy Supply
Name of the conference: Joint Research Center (Ispra-Italy)
City of event: Ispra, Italy
Date of event: 30/11/2016
End date: 01/12/2016
Organising entity: Comisión Europea
Type of entity: European Commission/EU SCIENCE HUB
City organizing entity: Ispra, Italy

53 **Title of the work:** Nous materials per a fotovoltaica: Entre la química i la física
Name of the conference: Conferencia en la UIB (Palma de Mallorca)
City of event: Palma de Mallorca, Balears, Illes, Spain
Date of event: 25/11/2016
End date: 25/11/2016
Organising entity: UIB
Type of entity: University
City organizing entity: Palma de Mallorca,

54 **Title of the work:** Photo-induced charge recombination kinetics in hybrid lead perovskite solar cells
Name of the conference: ORGANIC & PEROVSKITE SOLAR CELLS CONFERENCE AND MC/WG MEETINGS OF COST ACTION MP1307
City of event: Heraklion,Creta, Greece
Date of event: 19/10/2016
End date: 21/10/2016

Organising entity: TEI of Crete

55 **Title of the work:** Photo-induced Time Resolved Spectroscopy for the Determination of Carrier Density, Charge Recombination and Efficiency Losses in Perovskite solar cells
Name of the conference: European Optical Society Annual Meeting (EOSAM) 2016
City of event: Berlin, Germany
Date of event: 26/09/2016
End date: 30/09/2016
Organising entity: European Optical Society

56 **Title of the work:** Photo-induced Carrier Recombination Kinetics in Mixed Halide Perovskite Solar Cells
Name of the conference: E-MRS 2016 FALL
Type of event: Conference
City of event: Varsovia, Poland
Date of event: 19/09/2016
End date: 22/09/2016
Organising entity: Warsaw University of Technology

57 **Title of the work:** Go Slow to Go Far: Learning About MAPI Solar Cells
Name of the conference: The International Conference on Hybrid and Organic Photovoltaics (HOVP16)
City of event: Swansea, United Kingdom
Date of event: 28/06/2016
End date: 01/07/2016
Organising entity: nanoGe Conferences / Scito

58 **Title of the work:** Third generation photovoltaics: Analysis of efficiency Losses
Name of the conference: Solar Energy Conversion
City of event: Valencia, Spain
Date of event: 20/05/2016
End date: 20/05/2016
Organising entity: Instituto de Tecnología Química. CSIC-Universidad Politécnica de Valencia

59 **Title of the work:** Going slowly to go far: Learning About Perovskite Based Solar Cells
Name of the conference: Seminar at ITT -Istituto Italiano di Tecnologia
City of event: Milan, Italy
Date of event: 10/03/2016
Organising entity: ITT Center for Nano Science and Technology @Polimi Istituto Italiano di Tecnologia

60 **Title of the work:** Inorganic Nanoparticles for the Construction of Solution Processed Perovskite-based Solar Cells
Name of the conference: Conference chair at International Conference on Perovskite Thin Film Photovoltaics (ABXPV)
City of event: Barcelona, Cataluña, Spain
Date of event: 03/03/2016
End date: 04/03/2016
Organising entity: nanoGe Conferences / Scito

61 **Title of the work:** Go Slow to Go Far: Learning About MAPI Solar Cells
Name of the conference: Invitation to National Institute for Materials Science (NIMS) and talk in International Center for Young Scientists (ICYS)
City of event: Tsukuba, Ibaraki Prefecture, Japan

Date of event: 20/02/2016
End date: 27/02/2016
Organising entity: NIMS - National Institute for Materials Science

62 **Title of the work:** Inorganic-Organic Heterojunctions in Nanocrystals Based Photonic Devices for Energy Conversion
Name of the conference: 225th ECS Meeting
City of event: Orlando, United States of America
Date of event: 11/05/2015
End date: 15/05/2015
Organising entity: The Electrochemical Society (ECS)
City organizing entity: New Jersey,

63 **Title of the work:** Solution Processed Inorganic and Organic Materials for Device Applications
Name of the conference: Invited Seminar at IMDEA
Date of event: 2015
End date: 2015
Organising entity: IMDEA

64 **Title of the work:** Photo-induced interfacial charge transfer reactions in double heterojunction solar cells
Name of the conference: International Conference Solution processed Semiconductor Solar Cells (SSSC14)
City of event: Oxford, United Kingdom
Date of event: 10/09/2014
Organising entity: nanoGe Conferences / Scito
City organizing entity: Valencia, Comunitat Valenciana, Spain

65 **Title of the work:** Photo-redox reactions in Ruthenium Complexes Used as Sensitizers in PhotoElectrochemical Dye Sensitized Solar Cells
Name of the conference: Electrochem 2014
City of event: Loughborough, United Kingdom
Date of event: 07/09/2014
Organising entity: Loughborough University

66 **Title of the work:** Nuevas moléculas orgánicas para fotovoltaica
Name of the conference: Universidad Complutense de Madrid
Date of event: 2014
End date: 2014
Organising entity: Universidad Complutense de Madrid **Type of entity:** University

67 **Title of the work:** Nanocrystals and organic materials for energy conversion: New concepts for old challenges
Name of the conference: 2nd international congress "Next Generation Solar Energy"
City of event: Erlangen, Germany
Date of event: 08/12/2013
End date: 12/12/2013
Emilio Palomares Gil.

68 **Title of the work:** Quantum Photoelectricity
Name of the conference: E2KW Congress 2013, Energy and Environmental Knolegde week
City of event: Toledo, Spain
Date of event: 20/11/2013
End date: 23/11/2013
Emilio Palomares Gil.

69 **Title of the work:** Fullerene functionalized quantum dot/P3HT bulk-heterojunction solar cells
Name of the conference: HOPV-13
City of event: Sevilla, Andalucía, Spain
Date of event: 05/05/2013
End date: 09/05/2013
Emilio Palomares Gil.

70 **Title of the work:** Layered Double Hydroxides as Carriers for Quantum Dots@silica Nanospheres
Name of the conference: Layered Double Hydroxides as Carriers for Quantum Dots@silica Nanospheres
City of event: San Francisco, United States of America
Date of event: 01/02/2013
End date: 06/02/2013
Emilio Palomares Gil.

71 **Title of the work:** Recent Advances on Cobalt Based Dye Sensitized Solar Cells
Name of the conference: DSC-OPV7
City of event: Taipei, Taiwan
Date of event: 26/10/2012
End date: 29/10/2012
Emilio Palomares Gil.

72 **Title of the work:** Small Molecules for Organic Solar Cells
Name of the conference: The 8th International Conference On Organics Electronics
City of event: Tarragona, Spain
Date of event: 25/06/2012
End date: 25/06/2012
Emilio Palomares.

73 **Title of the work:** SPIE Photonics Europe 2012 | Photonics, Optics, Lasers, Micro- Nanotechnologies Research
Name of the conference: SPIE Photonics Europe 2012 | Photonics, Optics, Lasers, Micro-Nanotechnologies Research
City of event: Bruselas, Belgium
Date of event: 15/04/2012
End date: 19/04/2012
Emilio Palomares.

74 **Title of the work:** Analysing Efficiency Losses in Molecular Solar Cells
Name of the conference: Excitonic Solar Cells Workshop
City of event: Diableretes, Switzerland
Date of event: 12/03/2012
End date: 15/03/2012
Emilio Palomares.

75 **Title of the work:** Challenges for the XXI Century: An OVerview about DSSC.
Name of the conference: VIII International Krutyn Summer School 2011. Frontiers in Organic, Dye-Sensitized and Hybrid Solar Cells
City of event: Krutyn, Polonia, Poland
Date of event: 2011
Emilio Palomares. 2011.

76 **Title of the work:** Charge transfer reactions in organic solar cells
Name of the conference: Esmolna 2011
City of event: El Escorial. Madrid, Spain
Date of event: 2011
End date: 2011
Emilio Palomares. 2011.

77 **Title of the work:** Interfacial Charge Transfer Dynamics in Organic Solar Cells.
Name of the conference: Symposium on Carbon Nanoforms
City of event: Toledo, España,
Date of event: 2011
Emilio Palomares. 2011.

78 **Title of the work:** Molecular Photovoltaic Devices. Ca We Do Better than Silicon?
Name of the conference: V Congreso REQOMED
City of event: Cádiz, Spain
Date of event: 2011
Emilio Palomares. 2011.

79 **Title of the work:** Molecular Photovoltaic Devices: Molecular Structure vs Device Efficiency Relationship.
Name of the conference: ICCES (Conference on Clean Energy Science)
City of event: Dalian, China
Date of event: 2011
End date: 2011
Emilio Palomares. 2011.

80 **Title of the work:** Advanced on Organic Solar Cells
Name of the conference: HOPE
City of event: Tarragona, España,
Date of event: 2010
Emilio Palomares. 2010.

81 **Title of the work:** Charge Recombination Dynamics at the Nanoscale in Molecular PV
Name of the conference: HOPV
City of event: Assisi. Italy,
Date of event: 2010
Emilio Palomares. 2010.

82 **Title of the work:** Charge Transfer Reactions in Dye Sensitized Solar Cells
Name of the conference: HOPV-Israel
City of event: Jerusalem, Israel,
Date of event: 2010
Emilio Palomares. 2010.

83 **Title of the work:** Design of Efficient Organic Deys
Name of the conference: ROBUST meeting
City of event: Freiburg,
Date of event: 2010
Emilio Palomares. 2010.

84 **Title of the work:** Molecular Photovoltaics: The Chemistry Road
Name of the conference: DEEA-Universidad Rovira i Virgili de Tarragona
City of event: Tarragona, Spain
Date of event: 2010
End date: 2010
Emilio Palomares. 2010.

85 **Title of the work:** Molecular Solar Cells at ICIQ
Name of the conference: Launching the Nanofutures European Innitiative
City of event: Gijón, España,
Date of event: 2010
Emilio Palomares. 2010.

86 **Title of the work:** Molecular Strucuture-Device Function Relationship
Name of the conference: Burgenstok
City of event: Brunen. Switzerland,
Date of event: 2010
Emilio Palomares. 2010.

87 **Title of the work:** Organic Solar Cells
Name of the conference: Conference in Partnership with LFUI on Nanotechnology for Sustainable Energy.
City of event: Obergurgl. Austria,
Date of event: 2010
Emilio Palomares. 2010.

88 **Title of the work:** Células solares orgánicas y moleculares
Name of the conference: Energía Solar Fotovoltaica: Innovación y Tecnologías
City of event: Madrid, España,
Date of event: 2009
Emilio Palomares. 2009.

89 **Title of the work:** Hybrid and Organic Photovoltaic Devices
Name of the conference: HOPV conference
City of event: Benidorm, España,
Date of event: 2009
Emilio Palomares. 2009.

90 **Title of the work:** Las nuevas perspectivas de la energía solar fotovoltaica
Name of the conference: Master ITE
City of event: Valencia, España,
Date of event: 2009
Emilio Palomares. 2009.

91 **Title of the work:** Molecular Photovoltaic Devices: New Oportunities to solve light to energy conversión problems
Name of the conference: Basic research science seminars at the UCLM
City of event: Toledo, España,
Date of event: 2009
Emilio Palomares. 2009.

92 **Title of the work:** Organic Photovoltaic and small molecule devices
Name of the conference: ISOPHOS09
City of event: Castellón, España,
Date of event: 2009
Emilio Palomares. 2009.

93 **Title of the work:** Transferencia de carga en dispositivos fotovoltaicos
Name of the conference: Escuela de Materiales 2009
City of event: Elche, España,
Date of event: 2009
Emilio Palomares. 2009.

94 **Title of the work:** Advances on Molecular Photovoltaic Devices
Name of the conference: IPS-17
City of event: Melbourne, Australia,
Date of event: 2008
Emilio Palomares. 2008.

95 **Title of the work:** Charge Recombination Reactions in polymer/nanocrystalline solar cells
Name of the conference: OrgaPVNet Conference
City of event: Warwick, UK,
Date of event: 2008
Emilio Palomares. 2008.

96 **Title of the work:** Development of Dey Sensitised Solar cells devices. New Insights on PV
Name of the conference: Photovoltaic Meeting at Imperial College of London
City of event: Londres, UK,
Date of event: 2008
Emilio Palomares. 2008.

97 **Title of the work:** Dye Sensitized Solar Cells: The control of the charge transfer reactions that limit the device performance
Name of the conference: International Photovoltaic Conference
City of event: Valencia, España,
Date of event: 2008
Emilio Palomares. 2008.

98 **Title of the work:** Modern chemical techniques for light harvesting
Name of the conference: ERA-NET Conference
City of event: El Escorial, España,
Date of event: 2008
Emilio Palomares. 2008.

99 **Title of the work:** Molecular Photovoltaic Devices
Name of the conference: Meeting-Research Conference at Repsol SA facilities – CENIT Mediodia
City of event: Madrid, España,
Date of event: 2008
Emilio Palomares. 2008.

100 **Title of the work:** Molecular Photovoltaic Devices: New Materials for the conversión of sun light into energy
Name of the conference: Invited Lecture at ICIQ
City of event: Tarragona, España,
Date of event: 2008
Emilio Palomares. 2008.

101 **Title of the work:** New Materials for Hybrid Photovoltaic Devices
Name of the conference: Joint ICTP-KFAS Workshop on Nanoscience for Solar Energy Conversion
City of event: Trieste, Italia,
Date of event: 2008
Emilio Palomares. 2008.

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

1 **Title of the work:** The Contact Makes the Device: Molecules that Rule the Solar Cells Efficiency
Name of the event: Organic Chemistry Day at UAM
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 25/10/2024
End date: 25/10/2024
Organising entity: Universidad Autónoma de Madrid **Type of entity:** University

2 **Title of the work:** The Contact Makes the Device: Molecules that Rule the Solar Cells Efficiency
Name of the event: IMDEA Seminars
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 17/09/2024
End date: 17/09/2024
Organising entity: FUNDACION IMDEA MATERIALES
City organizing entity: Madrid, Madrid, Comunidad de, Spain

3 **Title of the work:** Sun, electrons and electricity
Name of the event: Campus Físicomatemàtic d'Estiu URV 2024
City of event: Tarragona, Cataluña, Spain
Date of event: 27/06/2024
End date: 27/06/2024
Organising entity: Universitat Rovira i Virgili **Type of entity:** University

4 **Title of the work:** Discussion Panel
Name of the event: Ciclo de conferencias: ¿Qué sabes del último premio nobel?
City of event: Zaragoza, Aragón, Spain
Date of event: 01/02/2024
End date: 01/02/2024
Organising entity: Real Sociedad Española de Química de Aragón

5 **Title of the work:** Molecular photovoltaic devices: The Central Role of Chemistry
Name of the event: Echegoyen International Symposium on Solid State Chemistry for Sustainable Development (2nd Intl. Symp.) - SIPS 2023
City of event: Playa Bonita, Panama
Date of event: 27/11/2023
End date: 02/12/2023

6 **Title of the work:** Maximizing Your Potential: Career Advice for Post-PhD graduation
Name of the event: Durrant Group Reunion
City of event: London, United Kingdom
Date of event: 16/06/2023
End date: 16/06/2023
Organising entity: Imperial College London

7 **Title of the work:** "De la quàntica a les cel·les fotovoltaiques moleculars: El paper central de la Química
Name of the event: UAB Seminar Program
City of event: Bellaterra, Cataluña, Spain
Date of event: 21/03/2023
End date: 21/03/2023
Organising entity: Universitat Autònoma de Barcelona **Type of entity:** University

8 **Title of the work:** The energy transition: from photon to renewable hydrogen to decarbonize the industry
Name of the event: 2023 Conference Series
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 02/03/2023
End date: 02/03/2023
Organising entity: Fundación Ramón Areces **Type of entity:** Foundation

9 **Title of the work:** Mapping the Unexplored: The Interface is the Device
Name of the event: Seminar Program
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 21/10/2022
End date: 21/10/2022
Organising entity: Institute of Advanced Materials

10 **Title of the work:** Sun, electrons and electricity
Name of the event: Campus Físicomatemàtic d'Estiu URV 2022
City of event: Tarragona, Cataluña, Spain
Date of event: 30/06/2022
End date: 30/06/2022
Organising entity: Universitat Rovira i Virgili **Type of entity:** University

11 **Title of the work:** Going slow to go far: A journey through molecules for solar cells
Name of the event: Seminar Program - Institut de Química Computacional i Catàlisi (IQCC)
City of event: Girona, Cataluña, Spain
Date of event: 22/03/2022
End date: 22/03/2022
Organising entity: Universitat de Girona **Type of entity:** University

12 **Title of the work:** Molecular solar cells
Name of the event: webinar
City of event: Virtual, Germany
Date of event: 16/03/2022
End date: 16/03/2022
Organising entity: Helmholtz-Zentrum Berlin für Materialien und Energie
City organizing entity: Berlin,

13 **Title of the work:** From molecules to energy conversion devices
Name of the event: Seminar
City of event: Virtual, India
Date of event: 03/03/2022
End date: 03/03/2022
Organising entity: LNM Institute of Information Technology, Deemed University **Type of entity:** University

14 **Title of the work:** Light driving energy devices: from solar cells to catalytic reactors
Name of the event: Seminar Program
City of event: Barcelona, Cataluña, Spain
Date of event: 21/02/2022
End date: 21/02/2022
Organising entity: IQS School of Engineering - Universitat Ramon Llull **Type of entity:** University
City organizing entity: Barcelona,

15 **Title of the work:** Molecular Approaches to Energy Conversion
Name of the event: Lectures on Organic Electronics
City of event: Tarragona, Cataluña, Spain
Date of event: 16/12/2021
End date: 16/12/2021
Organising entity: Universitat Rovira i Virgili **Type of entity:** University

16 **Title of the work:** InterMat: Molecular Solar Cells and Novel Catalyst for Green Production of Solar Fuels
Name of the event: PCM Seminars of IPREM
City of event: Virtual, France
Date of event: 14/12/2021
End date: 14/12/2021
Organising entity: Université de Pau et des Pays de l'Adour (UPPA) **Type of entity:** University

17 **Title of the work:** Third generation photovoltaics. Organic systems (OPV)
Name of the event: Fundamental concepts and innovation in photovoltaic solar energy: the third generation
City of event: Virtual, Andalucía, Spain
Date of event: 21/07/2021
End date: 21/07/2021
Organising entity: Universidad Pablo de Olavide **Type of entity:** University

18 **Title of the work:** Molecular Approaches to Energy Conversion
Name of the event: Seminar
City of event: Virtual, United Kingdom
Date of event: 02/07/2021

End date: 02/07/2021
Organising entity: University of Glasgow

19 **Title of the work:** Energy and sustainability
Name of the event: Seminar
City of event: Virtual, Madrid, Comunidad de, Spain
Date of event: 23/03/2021
End date: 23/03/2021
Organising entity: IESE Business School **Type of entity:** University Centres and Structures and Associated Bodies

Science Outreach activities

1 **Title of the work:** Beyond the labs: the challenge of scaling decarbonization
Name of the event: Blau de Prussia
Type of event: poscast
City of event: Tarragona, Cataluña, Spain
Date of event: 15/01/2026
Organising entity: Instituto Catalán de Investigación Química **Type of entity:** University Research Institute

2 **Title of the work:** ICIQ from the inside
Name of the event: Blau de Prussia
City of event: Tarragona, Cataluña, Spain
Date of event: 08/02/2022
Organising entity: Instituto Catalán de Investigación Química **Type of entity:** University Research Institute

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

1 **Committee title:** National Pact for Industry 2026-2030 - Sustainability and Energy working group
City: Spain
Affiliation entity: Generalitat de Catalunya **Type of entity:** -
City affiliation entity: Barcelona, Cataluña, Spain
Start-End date: 16/10/2025 - 20/11/2025

2 **Committee title:** Member of the Chemistry evaluation panel at 2023 Call for Exploratory Research Projects in all Scientific Domains
Affiliation entity: Fundação para a Ciência e a Tecnologia, I.P. (FCT)
City affiliation entity: Portugal
Start-End date: 16/07/2024 - 17/07/2024

3 **Committee title:** Evaluating grants for Ramón y Cajal 2023 Call
Affiliation entity: Ministerio de Ciencia e Innovación **Type of entity:** .
Start-End date: 29/04/2024 - 30/04/2024

4 **Committee title:** CNATS Advisory Board (Center for Nanoscience and Technologies for Sustainability)
Affiliation entity: Universidad Pablo de Olavide **Type of entity:** University
City affiliation entity: Sevilla, Andalucía, Spain
Start-End date: 05/06/2023 - 06/06/2023

5 **Committee title:** Member of the committee of the PhD defense of Ms. Cansu Igci
Affiliation entity: École Polytechnique Fedérale de Lausanne
City affiliation entity: Lausanne, Switzerland
Start-End date: 18/02/2022 - 18/02/2022

6 **Committee title:** Member of the committee of the PhD defense of Ms. María Cabrero Antonino
Affiliation entity: Universitat Politècnica de València **Type of entity:** University
City affiliation entity: Valencia, Comunitat Valenciana, Spain
Start-End date: 07/10/2021 - 07/10/2021

7 **Committee title:** Member of the committee of the PhD defense of Mr. Valentin I.E. Queloz
Affiliation entity: École Polytechnique Fedérale de Lausanne
City affiliation entity: Lausanne, Switzerland
Start-End date: 19/08/2021 - 19/08/2021

8 **Committee title:** Member of the committee of the PhD defense of Mr. Albert Sutanto
Affiliation entity: École Polytechnique Fedérale de Lausanne
City affiliation entity: Lausanne, Switzerland
Start-End date: 06/08/2021 - 06/08/2021

9 **Committee title:** Trainer at GOSCI: Operational Management in Research Centres and Units
Affiliation entity: Fundación Empresa-Universidad Gallega (FEUGA) **Type of entity:** Foundation
City affiliation entity: Santiago de Compostela, Galicia, Spain
Start-End date: 04/06/2021 - 04/06/2021

10 **Committee title:** Member of the committee of the PhD defense of Mrs. Virginia Cuesta
Affiliation entity: Universidad de Castilla-La Mancha **Type of entity:** University
City affiliation entity: Toledo, Castilla-La Mancha, Spain
Start-End date: 12/02/2021 - 12/02/2021

11 **Committee title:** Member of the committee of the PhD defense of Ms. Carmen García López
Affiliation entity: Universidad Complutense de Madrid **Type of entity:** University
City affiliation entity: Madrid, Madrid, Comunidad de, Spain
Start-End date: 27/01/2021 - 27/01/2021

12 **Committee title:** Member of the committee of the PhD defense of Mr. Federico Dattila
Affiliation entity: Universitat Rovira i Virgili **Type of entity:** University
City affiliation entity: Tarragona, Cataluña, Spain
Start-End date: 30/11/2020 - 30/11/2020

13 **Committee title:** ERC 2019-CoG-PE Step 2 Pannel Meeting: Physical and Analytical Chemical Sciences
Affiliation entity: European Research Council Executive Agency
City affiliation entity: Bruselas, Belgium
Start-End date: 23/09/2019 - 26/09/2019

14 **Committee title:** ERC 2019-CoG Step 1 panel meeting
Affiliation entity: European Research Council Executive Agency
City affiliation entity: Bruselas, Belgium
Start-End date: 06/05/2019 - 08/05/2019

15 **Committee title:** Member of the committee of the PhD defense of Mr. Kyung Taek Cho
Affiliation entity: École Polytechnique Fedérale de Lausanne
City affiliation entity: Lausanne, Switzerland
Start-End date: 12/10/2018 - 12/10/2018

16 **Committee title:** ERC-2017-CoG-Evaluations: Step 2 panel meeting
Affiliation entity: European Research Council Executive Agency
City affiliation entity: Bruselas, Belgium
Start-End date: 03/10/2017 - 06/10/2017

17 **Committee title:** Member of the committee of the PhD defense of Mr. Mike Wang
Affiliation entity: University of Technology of Eindhoven (Holanda)
City affiliation entity: Eindhoven, Holland
Start-End date: 28/09/2017 - 28/09/2017

18 **Committee title:** ERC Consolidator Grants
Affiliation entity: European Research Council Executive Agency
City affiliation entity: Bruselas, Belgium
Start-End date: 15/05/2017 - 18/05/2017

19 **Committee title:** Conference chair at International Conference on Perovskite Thin Film Photovoltaics (ABXPV)
Affiliation entity: Nanoge
City affiliation entity: Barcelona, Spain
Start-End date: 03/03/2016 - 04/03/2016

20 **Committee title:** ERC Consolidator Grants
Affiliation entity: European Research Council Executive Agency
City affiliation entity: Bruselas, Belgium
Start-End date: 08/06/2015 - 11/06/2015

21 **Committee title:** Convocatoria "Reunión Evaluadores ERC"
Affiliation entity: Ministerio de Economía y Competitividad
City affiliation entity: Madrid, Spain
Start-End date: 19/05/2015 - 19/05/2015

22 **Committee title:** Reunión Comité Ejecutivo FOTOPLAT
Affiliation entity: Fotoplat
City affiliation entity: Madrid, Madrid, Comunidad de, Spain
Start-End date: 18/05/2015 - 18/05/2015

23 **Committee title:** The FNP Proze-2012
Affiliation entity: Polish Acedemy of Science
Start-End date: 25/06/2012 - 25/06/2012

24 **Committee title:** Agence Nationel du Reserche (ANR) Blanc Inter II-SIMI 7 2012
Affiliation entity: ANR
Start-End date: 05/06/2012 - 05/06/2012

25 **Committee title:** Brazilian Swiss Joint Research Programme BSJRP
Affiliation entity: Ecóle Polytechnique Federal de Laussane
Start-End date: 20/07/2011 - 20/07/2011

26 **Committee title:** Evaluation of the Research Program Thalis
Affiliation entity: Helenic republic .Ministry of Education Lifelong Leaning & Religious affairs.
Start-End date: 11/07/2011 - 11/07/2011

27 **Committee title:** Israel Science Foundation (ISF)
Affiliation entity: Israel Science Foundation (ISF)
Start-End date: 17/02/2011 - 17/02/2011

28 **Committee title:** DOE-BES
Affiliation entity: USA Department of Energy
Start-End date: 11/01/2009 - 11/01/2009

Organization of R&D activities

1 **Title of the activity:** Escuela de Verano ICIQ-URV
Type of activity: Seminarios ceintíficos **Geographical area:** académico e industrial
Start date: 2012

2 **Title of the activity:** Escuela de Verano ICIQ-URV
Type of activity: Seminarios ceintíficos **Geographical area:** académico e industrial
Start date: 2011

3 **Title of the activity:** Escuela de Verano ICIQ-URV
Type of activity: Seminarios ceintíficos **Geographical area:** académico e industrial
Start date: 2010

4 **Title of the activity:** Escuela de Verano ICIQ-URV
Type of activity: Seminarios ceintíficos **Geographical area:** académico e industrial
Start date: 2009

5 **Title of the activity:** Escuela de Verano ICIQ-URV
Type of activity: Seminarios ceintíficos **Geographical area:** académico e industrial
Start date: 2008

6 **Title of the activity:** Escuela de Verano ICIQ-URV
Type of activity: Seminarios ceintíficos **Geographical area:** académico e industrial
Start date: 2007

7 **Title of the activity:** Escuela de Verano ICIQ-URV
Type of activity: Seminarios ceintíficos **Geographical area:** académico e industrial
Start date: 2006

Other achievements

Stays in public or private R&D centres

Entity: Centre for Electronic Materials and Devices. Dep. Chemistry. Imperial College
City of entity: Londres, United Kingdom
Start-End date: 2001 - 2004 **Duration:** 36 months
Goals of the stay: Contracted

Scientific societies and professional associations

1 **Name of the society:** Spanish Royal Society of Chemistry (RSEQ)
City affiliation entity: Madrid, Madrid, Comunidad de, Spain
Start date: 2021

2 **Name of the society:** Royal Society of Chemistry (RSC)
City affiliation entity: London, United Kingdom
Start date: 2014

Prizes, mentions and distinctions

1 **Description:** Medalla Narcís Monturiol al mérito científico y tecnológico
Awarding entity: Generalitat de Catalunya **Type of entity:** Catalan Government
City awarding entity: Barcelona, Cataluña, Spain
Conferral date: 24/04/2024

2 **Description:** Distintiu 9 d'Octubre
Awarding entity: Ayuntamineto de Cullera
City awarding entity: Cullera, Comunitat Valenciana, Spain
Conferral date: 2023

3 **Description:** Fellow of the Spanish Royal Society of Chemistry (RSEQ)
Awarding entity: Real Sociedad Española de Química **Type of entity:** -
Conferral date: 2021

4 **Description:** Fellow of the ROYAL SOCIETY OF CHEMISTRY
Conferral date: 2014

5 **Description:** Premio Innova SUSCHEM-España
Conferral date: 2010

6 **Description:** ICREA Research Professor
Awarding entity: Institució Catalana de Recerca i Estudis Avancats **Type of entity:** -

City awarding entity: Barcelona, Cataluña, Spain
Conferral date: 2008

7 **Description:** Premio al Joven Investigador Químico por la Real Sociedad Española de Química
Conferral date: 2006

8 **Description:** Miembro de la REAL SOCIEDAD ESPAÑOLA DE QUIMICA
Conferral date: 2004

9 **Description:** Roscoe Medal “2004 Younger European Chemist’s Conference” (Aspectos destacados en la investigación Europea Química e Investigación y desarrollo en 2004)
Conferral date: 2004

10 **Description:** Beca RAMON Y CAJAL. Proyecto: RYC-2003-000592.
Awarding entity: Instituto de Ciencia Molecular / ICIQ
City awarding entity: Valencia, Spain
Conferral date: 2003

11 **Description:** Beca Europea MARIE CURIE. Proyecto HPMF-CT-2002-01744: “Towards The Control of Charge Recombination Processes in Dye Sensitised Photovoltaic Cells”
Awarding entity: Imperial College
City awarding entity: London, United Kingdom
Conferral date: 2002

12 **Description:** Beca de Jóvenes investigadores en 14th International Conference on Photochemical Conversion and Storage of Solar Energy. Sappor
City awarding entity: Japan
Conferral date: 2002