



Jesús Prado Gonjal

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Summary of CV

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

I earned my Ph.D. degree in Chemistry researching in the Solid-State Chemistry group at Universidad Complutense de Madrid, under the supervision of Prof. Emilio Morán and Dr. Rainer Schmidt. My thesis "Microwave-assisted synthesis and characterization of inorganic materials" was defended in 2014 as a matter of European doctorate and was awarded with "Cum Laude" and "extraordinary mention" (Premio Extraordinario de Doctorado). I carried out a predoctoral research stay (4 months) at CRISMAT Ensicaen (CNRS, France), where I worked on the development of new synthetic methodologies for thermoelectric materials using microwave radiation. After my Ph.D., I joined the Solid State group (Prof. Anthony Powell's group) at the University of Reading (32 months), as a postdoctoral research assistant. My scientific activity was ascribed to the field of synthesis, structural and physical characterization of materials for energy (thermoelectrics). This work was done in close collaboration with industrial partners. I also provided support and technical consultancy in helping Johnson Matthey PLC develop their own in-house capabilities in Sonning Common (UK).

From February 2017 to March 2018, I have been a "Juan de la Cierva-formación" fellow (Spanish MINECO program), working at the Instituto de Ciencia de Materiales de Madrid (ICMM) - CSIC, where I was a member of the research group 2D foundry (Prof Mar García's group), working on the study of physical properties of condensed matter. In April 2018, I started an "Atracción de Talento -M2- Comunidad de Madrid" fellow, researching in the Solid-State Chemistry group at UCM in the synthesis and characterization of materials for energy (thermoelectrics, solid oxide fuel cells, batteries) and I was awarded with a Marie Curie fellowship (MSCA-IF) at ICMM-CSIC to work on the preparation and characterization of 2D-materials. In September 2019, I started a new position as Assistant Professor (PAD) in the Inorganic Chemistry Department at Universidad Complutense de Madrid, where since January 2023 I am Associate Professor (PCD). In 2021, I was awarded with the Spanish I3 certification.

My research is mainly focused on the synthesis by alternative methods of energy materials (components of batteries, thermoelectrics, SOFCs), the study of the structure of these materials by means of neutron powder diffraction and synchrotron X-ray diffraction and the electric, thermal and magneto-transport characterization of non-molecular materials. I am co-author of 48 articles (32 Q1 and 14 D1; between them: Adv Funct Mater, Chem Mater, J Mater Chem A, Inorg Chem, J Eur Ceram Soc, Nanoscale) and 5 book chapters, with an h-index of 21 (1555 citations, Google Scholar). I am guest editor of 3 special issues in Journal of Solid State Chemistry, Crystals and Nanomaterials. I am reviewer for RSC, ACS, Wiley, Springer-Nature, Elsevier, MDPI journals, I have evaluated projects from Argentina Research Agency and I have been jury member for 4 PhD viva. I have presented my results at 22 National and 28 International conferences (90 total contributions) and I was an invited speaker 10 times in conferences and workshops (between them: International Conference about Polymers and Advanced Materials 2022, 3-day International Conference on Materials Science 2022, European Advanced Materials Congress 2021). I have been involved in 15 different research projects, including 3 European (1 of them as PI, CHEM2D - DLV-794126, 158K €) and 12 National/regional based projects (3 as PI: Community of Madrid project, PR65/19-22459, 54K €; Ministry of Science and Innovation, TED2021-129569A-I00, 230K €; Ministry of Science and



Innovation, CNS2022-135302, 198K €). Through my involvement with the university team, I received supervising and mentoring responsibilities, including the guidance and direction of 15 final degree projects, 9 master projects and 3 PhD thesis (currently under way). In the last 4 years, 3 research assistants has been trained under my supervision (1 contract through PR65/19-22459 project; 1 contract through the Youth Employment Operational Program, Community of Madrid, PEJ-2020-AI/IND-17706, 45K €, 1 contract through TED2021-129569A-I00). Furthermore, I participate in basic chemistry lessons at UCM (more than 1500 hours) and I frequently organize outreach activities and international meetings (II Iberian Thermoelectric conference, "Materials for energy and sustainability" international workshop, 5 editions of "Brain Wars: The future is in your hands" research contest, Science week activities). In January 2020, I was named a member of the Spanish Royal Society of Chemistry-Madrid Section board and since December 2022, I am the secretary of the mentioned Section.

**C****V****n**

CURRÍCULUM VITAE NORMALIZADO

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General quality indicators of scientific research

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

Citations indices: (28-01-2024)

h = 22 ; i10 = 36 Total number of citations 1630

Jesús Prado Gonjal

Surname(s): **Prado Gonjal**
Name: **Jesús**
ORCID: **0000-0003-4880-8503**
ResearcherID: **O45522017**
Date of birth: **11/05/1985**
Nationality: **Spain**
Country of birth: **Spain**
Aut. region/reg. of birth: **Community of Madrid**
City of birth: **Madrid**
Contact aut. region/reg.: **Community of Madrid**
Email: **jpradogo@ucm.es**
Personal web page: **<https://sites.google.com/view/thermoelectrics-ucm/>**

Current professional situation

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

Department: Química Inorgánica, Facultad de Ciencias Químicas

Professional category: Profesor Contratado Doctor

Start date: 23/01/2023

Dedication regime: Full time

Primary (UNESCO code): 230300 - Inorganic chemistry

Secondary (UNESCO code): 230300 - Inorganic chemistry

Identify key words: Chemistry of solid state; Materials

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad Complutense de Madrid	Profesor Ayudante Doctor	16/09/2019
2	Instituto de Ciencia de Materiales de Madrid	MSCA-IF fellow	01/06/2019
3	Universidad Complutense de Madrid	"Atracción de Talento - Modalidad 2" fellow	01/04/2018
4	Instituto de Ciencia de Materiales de Madrid	Postdoctoral fellow "Juan de la Cierva - formación"	01/02/2017
5	University of Reading	Postdoctoral research assistant	01/04/2014
6	Universidad Complutense de Madrid	PhD student	01/09/2010
7	Universidad San Pablo CEU	Profesor colaborador	01/11/2009
8	Ercros	Internship	01/07/2007
9	Ercros	Internship	01/08/2006

- 1** **Employing entity:** Universidad Complutense de Madrid **Type of entity:** University
Professional category: Profesor Ayudante Doctor
Start-End date: 16/09/2019 - 22/01/2023
- 2** **Employing entity:** Instituto de Ciencia de Materiales de Madrid **Type of entity:** State agency
Professional category: MSCA-IF fellow
Start-End date: 01/06/2019 - 15/09/2019
- 3** **Employing entity:** Universidad Complutense de Madrid **Type of entity:** University
Professional category: "Atracción de Talento - Modalidad 2" fellow
Start-End date: 01/04/2018 - 31/05/2019
- 4** **Employing entity:** Instituto de Ciencia de Materiales de Madrid **Type of entity:** State agency
Professional category: Postdoctoral fellow "Juan de la Cierva - formación"
Start-End date: 01/02/2017 - 31/03/2018
Type of contract: Grant-assisted student (pre or post-doctoral, others)
- 5** **Employing entity:** University of Reading **Type of entity:** University
Department: Chemistry, Chemistry and Pharmacy
City employing entity: Reading, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Professional category: Postdoctoral research assistant
Start-End date: 01/04/2014 - 31/12/2016 **Duration:** 2 years - 8 months - 29 days
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 230300 - Inorganic chemistry
- 6** **Employing entity:** Universidad Complutense de Madrid **Type of entity:** University
Department: Departamento de Química Inorgánica I (UCM), Facultad de Ciencias Químicas
City employing entity: Madrid, Community of Madrid, Spain
Professional category: PhD student
Start-End date: 01/09/2010 - 31/03/2014 **Duration:** 3 years - 6 months - 30 days
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Area of leadership and/or management activity: University
- 7** **Employing entity:** Universidad San Pablo CEU **Type of entity:** University
Department: Farmacia
City employing entity: Boadilla del Monte, Community of Madrid, Spain
Professional category: Profesor colaborador **Leadership and management (Y/N):** Yes
Start-End date: 01/11/2009 - 01/12/2009 **Duration:** 1 month
Type of contract: Temporary employment contract
Area of leadership and/or management activity: University



- 8** **Employing entity:** Ercros **Type of entity:** Business
City employing entity: Aranjuez, Community of Madrid, Spain
Professional category: Internship
Start-End date: 01/07/2007 - 01/09/2007 **Duration:** 2 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
- 9** **Employing entity:** Ercros **Type of entity:** Business
City employing entity: Aranjuez, Community of Madrid, Spain
Professional category: Internship
Start-End date: 01/08/2006 - 01/09/2006 **Duration:** 1 month
Type of contract: Grant-assisted student (pre or post-doctoral, others)



Education

University education

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

1 University degree: Higher degree

Name of qualification: Postgraduate study in "Advanced Chemistry"

City degree awarding entity: Madrid, Community of Madrid, Spain

Degree awarding entity: Universidad Complutense **Type of entity:** University de Madrid

Date of qualification: 08/07/2010

Average mark: Excellent

Standardised degree: Yes

2 University degree: Higher degree

Name of qualification: Bachelor of Science degree in Chemistry

City degree awarding entity: Madrid, Community of Madrid, Spain

Degree awarding entity: Universidad Complutense **Type of entity:** University de Madrid

Date of qualification: 01/02/2009

Average mark: Good

Doctorates

Doctorate programme: PhD_Estudios en Química Avanzada (RD1393/2007)

Degree awarding entity: Universidad Complutense **Type of entity:** University de Madrid

City degree awarding entity: Madrid, Community of Madrid, Spain

Date of degree: 23/05/2014

European doctorate: Yes

Date of certificate: 23/05/2014

Thesis title: Síntesis - asistida por microondas - y caracterización de materiales inorgánicos (Microwave - assisted synthesis and characterization of inorganic materials)

Thesis director: Emilio Morán Miguélez

Thesis co-director: Rainer Schmidt

Obtained qualification: Sobresaliente "Cum Laude"

Special doctorate award: Yes

Date of award: 22/10/2015



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

- 1** **Title of course/seminar:** Estrategias de liderazgo docente para la mejora del aprendizaje y clima en el aula, Universidad Complutense de Madrid.
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Educación
Duration in hours: 20 hours
Start-End date: 01/2020 - 02/2020
- 2** **Title of course/seminar:** Métodos físicos de análisis de capas finas y superficies de sólidos
City organizing entity: Sevilla, Andalusia, Spain
Organising entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Faculty, institute or centre: Instituto de Ciencia de Materiales, centro de Investigaciones científicas "Isla de la Cartuja"
Start-End date: 24/06/2013 - 27/06/2013 **Length:** 4 days
- 3** **Title of course/seminar:** FPSchool 2012
City organizing entity: Grenoble, Rhône-Alpes, France
Organising entity: Institut Laue-Langevin ILL
Start-End date: 23/01/2012 - 27/01/2012 **Length:** 5 days
- 4** **Title of course/seminar:** 12th Oxford School on Neutron Scattering
City organizing entity: Oxford, United Kingdom
Organising entity: University of Oxford
Start-End date: 05/09/2011 - 16/09/2011 **Length:** 12 days
- 5** **Title of course/seminar:** Neutrones y materiales para la Energía - Cursos de Verano El Escorial
City organizing entity: El Escorial, Community of Madrid, Spain
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
Duration in hours: 30 hours
Start-End date: 11/07/2011 - 15/07/2011 **Length:** 5 days
- 6** **Title of course/seminar:** Transmission electron microscopy for materials science: HRTEM and electron diffraction
City organizing entity: Cancún, Mexico
Organising entity: International Materials Research Congress
Start-End date: 15/08/2010 - 15/08/2010 **Length:** 1 day
- 7** **Title of course/seminar:** Pilas de Combustible una realidad circulando - HyChain project
City organizing entity: Soria, Castile and León, Spain
Organising entity: Universidad San Pablo CEU **Type of entity:** University
Start-End date: 26/05/2010 - 28/05/2010 **Length:** 3 days
- 8** **Title of course/seminar:** XII Jornada de materiales "MATERIALES Y ENERGÍA"
City organizing entity: Leganés, Community of Madrid, Spain
Organising entity: Universidad Carlos III de Madrid **Type of entity:** University
Duration in hours: 6 hours
Start-End date: 27/04/2010 - 27/04/2010 **Length:** 1 day



- 9 Title of course/seminar:** Aplicación de la radiación sincrotrón a la caracterización de materiales
City organizing entity: Sevilla, Andalusia, Spain
Organising entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Faculty, institute or centre: Instituto de ciencia de materiales, centro de investigaciones científicas "Isla de la Cartuja"
Start-End date: 30/09/2009 - 02/10/2009 **Length:** 3 days
- 10 Title of course/seminar:** IX Escuela sobre el método de Rietveld
City organizing entity: Castellón de la Plana, Valencian Community, Spain
Organising entity: Universidad Jaime I **Type of entity:** University
Faculty, institute or centre: Facultad de Química
Start-End date: 30/06/2009 - 03/07/2009 **Length:** 4 days
- 11 Title of course/seminar:** Introducción a la Resolución Estructural mediante Difracción de Rayos-X
City organizing entity: Granada, Andalusia, Spain
Organising entity: Real Sociedad Española de Química **Type of entity:** Public
Start-End date: 15/06/2009 - 17/06/2009 **Length:** 3 days
- 12 Title of course/seminar:** Advanced English course
City organizing entity: London, Inner London, United Kingdom
Organising entity: EC London
Duration in hours: 75 hours
Start-End date: 28/09/2008 - 19/10/2008 **Length:** 21 days
- 13 Title of course/seminar:** Contaminación y cambio climático: Ciencia, vida humana y medio ambiente
City organizing entity: Lanzarote, Canary Islands, Spain
Organising entity: Academia de Lanzarote
Duration in hours: 20 hours
Start-End date: 07/2007 - 07/2007 **Length:** 5 days

Language skills

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

Teaching experience

General teaching experience

- 1 Type of teaching:** Official teaching
Name of the course: Operaciones Básicas de laboratorio
Type of programme: Bachelor's degree **Type of teaching:** Laboratory work
Type of subject: Obligatory
University degree: Graduate in Chemistry
Course given: 1



End date: 12/2023

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 70

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

City of entity: Madrid, Community of Madrid, Spain

Subject language: Spanish

2 Type of teaching: Official teaching

Name of the course: Operaciones Básicas de laboratorio

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Chemistry

Course given: 1

End date: 12/2022

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 70

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

City of entity: Madrid, Community of Madrid, Spain

Subject language: Spanish

3 Type of teaching: Official teaching

Name of the course: Operaciones Básicas de laboratorio

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Chemistry

Course given: 1

End date: 12/2021

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 70

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

City of entity: Madrid, Community of Madrid, Spain

Subject language: Spanish

4 Type of teaching: Official teaching

Name of the course: Operaciones Básicas de laboratorio

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Chemistry

Course given: 1

End date: 12/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 70

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

City of entity: Madrid, Community of Madrid, Spain

Subject language: Spanish



- 5** **Type of teaching:** Official teaching
Name of the course: Química Inorgánica
Type of programme: Bachelor's degree **Type of teaching:** Laboratory work
Type of subject: Obligatory
University degree: Graduate in Chemistry
Course given: 2
End date: 03/2020
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 60
Entity: Universidad Complutense de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Químicas
City of entity: Madrid, Community of Madrid, Spain
Subject language: Spanish
- 6** **Type of teaching:** International teaching
Name of the course: Materials for Renewable Energies
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Modular
University degree: Master in Materials Engineering
Course given: Materials for Renewable Energies
Start date: 2019 **End date:** 2019
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 2
Entity: Universidad Politécnica de Madrid **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos
City of entity: Madrid,
Subject language: English
- 7** **Type of teaching:** Official teaching
Name of the course: Operaciones Básicas de laboratorio
Type of programme: Bachelor's degree **Type of teaching:** Laboratory work
Type of subject: Obligatory
University degree: Graduate in Chemistry
Course given: 1
End date: 12/2018
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 70
Entity: Universidad Complutense de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Químicas
City of entity: Madrid, Community of Madrid, Spain
Subject language: Spanish
- 8** **Type of teaching:** International teaching
Name of the course: Materials for Renewable Energies
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Modular
University degree: Master in Materials Engineering
Course given: Materials for Renewable Energies
Start date: 2018 **End date:** 2018
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 2



Entity: Universidad Politécnica de Madrid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos

City of entity: Madrid,

Subject language: English

9 Type of teaching: Official teaching

Name of the course: Operaciones Básicas de laboratorio

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Chemistry

Course given: 1

End date: 12/2017

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 65

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

City of entity: Madrid, Community of Madrid, Spain

Subject language: Spanish

10 Type of teaching: International teaching

Name of the course: Materials for Renewable Energies

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Modular

University degree: Master in Materials Engineering

Course given: Materials for Renewable Energies

Start date: 2016

End date: 2017

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 2

Entity: Universidad Politécnica de Madrid

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos

City of entity: Madrid,

Subject language: English

11 Type of teaching: Official teaching

Name of the course: Química Básica

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Geology Engineering

Course given: 1º

Start date: 2016

End date: 2017

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 16

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Department: Química Inorgánica I

City of entity: Madrid, Community of Madrid, Spain

Subject language: Spanish

12 Type of teaching: Official teaching

Name of the course: Química Básica

Type of programme: Bachelor's degree

Type of teaching: Laboratory work



Type of subject: Obligatory

University degree: Graduate in Geology

Course given: 1º

Start date: 2016

End date: 2017

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 16

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Department: Química Inorgánica I

City of entity: Madrid, Community of Madrid, Spain

Subject language: Spanish

13 Type of teaching: Official teaching

Name of the course: Química Básica

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Geology

Course given: 1º

Start date: 2016

End date: 2017

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 12

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Department: Química Inorgánica I

Subject language: Spanish

14 Type of teaching: Official teaching

Name of the course: Química

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Geology

Course given: 1º

Start date: 2013

End date: 2014

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 12

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Department: Química Inorgánica I

City of entity: Madrid, Community of Madrid, Spain

15 Type of teaching: Official teaching

Name of the course: Química Básica

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Chemistry engineering

Course given: 1º

Start date: 2012

End date: 2013

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 16

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas



Department: Química Inorgánica I

City of entity: Madrid, Community of Madrid, Spain

16 Type of teaching: Official teaching

Name of the course: Química

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Chemistry engineering

Course given: 1º

Start date: 2011

End date: 2012

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 12

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Department: Química Inorgánica I

City of entity: Madrid, Community of Madrid, Spain

Subject language: Spanish

17 Type of teaching: Official teaching

Name of the course: Química Básica

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Chemistry engineering

Course given: 1º

Start date: 2011

End date: 2012

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 16

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Department: Química Inorgánica I

City of entity: Madrid, Community of Madrid, Spain

18 Type of teaching: Official teaching

Name of the course: Química

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Geology

Course given: 1º

Start date: 2010

End date: 2011

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 12

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Department: Química Inorgánica I

City of entity: Madrid, Community of Madrid, Spain

19 Type of teaching: Official teaching

Name of the course: Química Básica

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Chemistry engineering



Course given: 1º

Start date: 2010

End date: 2011

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 16

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Department: Química Inorgánica I

City of entity: Madrid, Community of Madrid, Spain

20 Type of teaching: Official teaching

Name of the course: Química

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Geology

Course given: 1º

Start date: 2009

End date: 2010

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 12

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Department: Química Inorgánica I

City of entity: Madrid, Community of Madrid, Spain

Subject language: Spanish

21 Type of teaching: Official teaching

Name of the course: Química Básica

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Graduate in Chemistry engineering

Course given: 1º

Start date: 2009

End date: 2010

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 16

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Department: Química Inorgánica I

City of entity: Madrid, Community of Madrid, Spain

22 Type of teaching: Official teaching

Name of the course: Química General

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory

University degree: Bachelor of Pharmacy

Course given: 1º

Start date: 02/11/2009

End date: 30/11/2009

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 72

Entity: Universidad San Pablo CEU

Type of entity: University

Faculty, institute or centre: Facultad de Farmacia

Department: Química

City of entity: Boadilla del Monte, Community of Madrid, Spain



Subject language: Spanish

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Nuevos materiales para baterías de ion potasio
Type of project: Doctoral thesis
Co-director of thesis: Elizabeth Castillo
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Juan Andrés Nieto Simón
Date of reading: 2027
- 2** **Project title:** Calcogenuros metálicos sostenibles para almacenamiento y conversión de energía: de la síntesis al reciclaje
Type of project: Doctoral thesis
Co-director of thesis: David Avila Brande
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Marta Gonzalez Barrios
Date of reading: 2026
- 3** **Project title:** PTIMIZACIÓN DE LAS PROPIEDADES TERMOELÉCTRICAS DE MINERALES SINTÉTICOS PARA LA TRANSFORMACIÓN DE CALOR RESIDUAL EN ENERGÍA
Type of project: TFG
Co-director of thesis: Marta González Barrios
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Jose Antonio Carralero Gonzalez
Date of reading: 2024
- 4** **Project title:** SÍNTESIS, CARACTERIZACIÓN ESTRUCTURAL Y PROPIEDADES DE ÓXIDOS TERMOELÉCTRICOS PARA GENERACIÓN DE ENERGÍA ELÉCTRICA A PARTIR DE CALOR RESIDUAL
Type of project: TFG
Co-director of thesis: Elena Solana Madruga
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Diego Hernandez Sánchez
Date of reading: 2024
- 5** **Project title:** ÓXIDOS DE MANGANESO PARA APLICACIONES ENERGÉTICAS
Type of project: TFM
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Ángela Tejero Plaza
Date of reading: 2024
- 6** **Project title:** Materiales termoeléctricos avanzados para recolección de energía
Type of project: TFG
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Javier Castillo Torrente
Date of reading: 2023
- 7** **Project title:** SÍNTESIS Y CARACTERIZACIÓN DE MATERIALES TERMOELÉCTRICOS PARA GENERACIÓN DE ENERGÍA A PARTIR DE GRADIENTES TÉRMICOS
Type of project: TFM



Entity: Universidad Complutense de Madrid
Student: Elena García Calvo
Date of reading: 2023

Type of entity: University

- 8** **Project title:** Síntesis y caracterización de nuevos electrodos para conversión de energía en pilas de combustible de óxido sólido

Type of project: TFM

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Mónica Chivite Labaca

Date of reading: 2023

- 9** **Project title:** MATERIALES AVANZADOS PARA CONVERSIÓN DE ENERGÍA: IMPULSANDO LA ECONOMÍA DEL HIDRÓGENO

Type of project: TFG

Co-director of thesis: Vanessa Cascos Jiménez

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Alberto García Fernandes

Date of reading: 2022

- 10** **Project title:** SÍNTESIS DE MATERIALES INORGÁNICOS PARA SU APLICACIÓN EN BATERÍAS DE ION POTASIO

Type of project: TFG

Co-director of thesis: Elizabeth Castillo

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Angela Tejero Plaza

Date of reading: 2022

- 11** **Project title:** Materiales Termoeléctricos: Generando energía eléctrica a partir de calor residual

Type of project: TFM

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Manuel Cerro Carracedo

Date of reading: 2022

- 12** **Project title:** NUEVOS MATERIALES PARA SISTEMAS DE ALMACENAMIENTO DE ENERGÍA DE ÚLTIMA GENERACIÓN

Type of project: TFM

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Juan Andrés Nieto Simón

Date of reading: 2022

- 13** **Project title:** Prácticas de empresa

Type of project: Prácticas de empresa

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Marta Vizuete Vidal

Date of reading: 2021

- 14** **Project title:** Síntesis por métodos de “Química Rápida” de materiales 2D

Type of project: TFG

Co-director of thesis: Vanessa Cascos Jiménez

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Jimena González-Cassy Pinar



Date of reading: 2021

- 15 Project title:** Síntesis por métodos de “Química Rápida” de óxidos con estructura holandita para su utilización en baterías de ion-potasio.

Type of project: TFG

Co-director of thesis: Elizabeth Castillo Martínez

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Óscar Bermejo Aranda

Date of reading: 2021

- 16 Project title:** Preparación de calcogenuros metálicos para almacenamiento y conversión de energía.

Type of project: TFM

Co-director of thesis: David Ávila Brande

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Marta González Barrios

Date of reading: 2021

- 17 Project title:** Crecimiento biomimético mediado por péptidos de materiales compuestos en la nanoescala

Type of project: TFM (tutor académico)

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Ana Castellanos Aliaga

Date of reading: 2021

- 18 Project title:** Preparación de materiales 2D por vía electroquímica

Type of project: TFG

Co-director of thesis: Elizabeth Castillo

Entity: Departamento de Química Inorgánica I (UCM)

Type of entity: University Department

Student: Carolina Ramos Capón

Date of reading: 09/2020

- 19 Project title:** Preparación de materiales 2D por métodos de “Química Rápida”

Type of project: TFG

Entity: Departamento de Química Inorgánica I (UCM)

Type of entity: University Department

Student: Sara Rodríguez Pérez

Date of reading: 07/2020

- 20 Project title:** Preparación de materiales para la energía a través de procesos de intercalación

Type of project: TFM

Co-director of thesis: Elizabeth Castillo

Entity: Departamento de Química Inorgánica I (UCM)

Type of entity: University Department

Student: Enrique de Areba

Date of reading: 07/2020

- 21 Project title:** Preparación de materiales 2D por vía electroquímica”

Type of project: End of course project

Co-director of thesis: Elizabeth Castillo

Entity: Departamento de Química Inorgánica (UCM)

Student: Álvaro García Botaz

Date of reading: 07/2019



- 22** **Project title:** Preparación de materiales, por métodos de química rápida, para generación de energía
Type of project: End of course project
Co-director of thesis: Emilio Morán
Entity: Departamento de Química Inorgánica (UCM)
Student: Elena Sánchez Ahijón
Date of reading: 07/2019
- 23** **Project title:** Preparación por métodos de química rápida y caracterización de materiales termoeléctricos para aprovechamiento de calor residual
Type of project: End of course project
Co-director of thesis: Emilio Morán
Entity: Departamento de Química Inorgánica (UCM)
Student: Daniel Voces
Date of reading: 07/2019
- 24** **Project title:** Síntesis y caracterización de materiales termoeléctricos para aprovechamiento de calor residual
Type of project: End of course project
Co-director of thesis: Emilio Morán
Entity: Departamento de Química Inorgánica (UCM)
Student: Enrique de Areba
Date of reading: 07/2019
- 25** **Project title:** Síntesis y caracterización de calcogenuros termoeléctricos
Type of project: TFM
Co-director of thesis: Emilio Morán
Entity: Departamento de Química Inorgánica I (UCM) **Type of entity:** University Department
Student: Isabel Aguayo
Date of reading: 07/2019
- 26** **Project title:** Prácticas de empresa
Type of project: Prácticas de empresa
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Daniel Voces
Date of reading: 06/2019
- 27** **Project title:** Síntesis asistida por microondas de materiales inorgánicos
Type of project: End of course project
Co-director of thesis: Emilio Morán
Entity: Departamento de Química Inorgánica I (UCM) **Type of entity:** University Department
Student: Isabel Aguayo
Date of reading: 07/2018



Other activities/achievements not included above

- 1** **Description of the activity:** SciFinder training
Organising entity: American Chemical Society
End date: 15/09/2020
- 2** **Description of the activity:** Plan de Formación de Profesorado: Redes sociales y otros social media para PDI
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 09/2020
- 3** **Description of the activity:** Plan de Formación de Profesorado: Recursos para la docencia y la evaluación online
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 27/06/2020
- 4** **Description of the activity:** Assistance to the webinars: "La evaluación en los tiempos del Covid19" (four days)
Organising entity: FUNDACION GENERAL DE LA UNIVERSIDAD COMPLUTENSE DE MADRID
End date: 28/05/2020
- 5** **Description of the activity:** Plan de Formación de Profesorado: ADAPTA TU CLASE MAGISTRAL DE SIEMPRE A LA PRESENCIALIDAD VIRTUAL
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 05/2020
- 6** **Description of the activity:** Plan de Formación de Profesorado: ARRANCAMOS EL CAMPUS VIRTUAL UN MUNDO DE POSIBILIDADES
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 05/2020
- 7** **Description of the activity:** Plan de Formación de Profesorado: CREACIÓN, GESTIÓN Y EVALUACIÓN DE ACTIVIDADES A TRAVÉS DEL CAMPUS VIRTUAL
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 05/2020
- 8** **Description of the activity:** Plan de Formación de Profesorado: Construye y gestiona el examen online a través del Campus Virtual
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 05/2020
- 9** **Description of the activity:** Plan de Formación de Profesorado: EJECUCIÓN EXAMEN ONLINE (PRINCIPALES PASOS A SEGUIR DURANTE EL DESARROLLO DE UN EXAMEN ONLINE). SEGURIDAD, PRIVACIDAD
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 05/2020
- 10** **Description of the activity:** Plan de Formación de Profesorado: POTENCIA LA PARTICIPACIÓN DE TUS ALUMNOS EN LAS CLASES EN REMOTO
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 05/2020



- 11 Description of the activity:** Plan de Formación de Profesorado: PROGRAMA TU ASIGNATURA Y DISEÑA LA EVALUACIÓN CONTINUA DE MANERA REMOTA
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 05/2020
- 12 Description of the activity:** Plan de Formación de Profesorado: Estrategias de liderazgo docente para la mejora del aprendizaje y clima en el aula
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 10/03/2020

Most relevant contributions of your teaching CV

- 1 Description:** Guide and support for PhD students
Identify key words: Chemical physics of materials; Spectroscopy; Chemistry of the elements of transition; Intermetallics; Ceramics; Semiconductors; Nanomaterials; Magnetism
City of activity: Reading, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Organising entity: University of Reading
End date: 10/2016
- 2 Description:** Guide and support for Final Degree and Master Project students (Advanced Chemistry)
Identify key words: Chemical physics of materials; Spectroscopy; Ceramics; Nanomaterials; Magnetism; Superconducting
City of activity: Madrid, Community of Madrid, Spain
Organising entity: Universidad Complutense de Madrid **Type of entity:** University

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:** CAPTADORES INTELIGENTES DE METAL-AIRE: AMPLIACIÓN DE LA VIDA ÚTIL DE SISTEMAS CON ALIMENTACIÓN AUTÓNOMA
Entity where project took place: Universidad Complutense de Madrid
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Elizabeth Castillo Martínez
Nº of researchers: 6
Type of participation: Team member
Start-End date: 01/12/2022 - 30/11/2025 **Duration:** 2 years
Total amount: 135.700 €
- 2 Name of the project:** Solid-state potassium-ion batteries for safe and sustainable energy storage (PCI2022-133005)
Entity where project took place: Universidad Complutense de Madrid
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Elizabeth Castillo Martínez
Nº of researchers: 6



Type of participation: Team member

Name of the programme: ERANET- Unión Europea - Ministerio de Ciencia e Innovación

Start-End date: 01/01/2022 - 30/09/2025

Duration: 2 years

Total amount: 175.000 €

3 Name of the project: MEJORA DE LA EFICIENCIA TERMOELECTRICA DE MATERIALES MEDIANTE EL DESACOPAMIENTO DE SUS PROPIEDADES (TERMADES), CNS2022-135302

Entity where project took place: Universidad Complutense de Madrid

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Jesús Prado Gonjal

Nº of researchers: 6

Type of participation: Principal investigator

Start-End date: 01/09/2023 - 31/08/2025

Duration: 2 years

Total amount: 198.680,1 €

4 Name of the project: Baterías avanzadas y sostenibles de ion sodio e ion potasio de estado sólido (PID2021-127864OB-I00)

Entity where project took place: Universidad Complutense de Madrid

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Elizabeth Castillo Martínez

Nº of researchers: 6

Type of participation: Team member

Name of the programme: Ministerio de Ciencia e Innovación

Start-End date: 2022 - 2025

Duration: 2 years

Total amount: 127.050 €

5 Name of the project: Materiales termoeléctricos sostenibles para generación de energía eléctrica a partir del calor residual (MATTER), TED2021-129569A-I00

Entity where project took place: Universidad Complutense de Madrid

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Jesús Prado Gonjal

Nº of researchers: 6

Type of participation: Principal investigator

Start-End date: 01/12/2022 - 30/11/2024

Duration: 2 years

Total amount: 230.000 €

6 Name of the project: Implementación de nuevos cátodos en dispositivos de conversión de energía: Impulsando la economía del hidrógeno, PR27/21-002

Entity where project took place: Universidad Complutense de Madrid

Type of entity: University

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Vanessa Cascos Jimenez

Nº of researchers: 6

Funding entity or bodies:

Comunidad de Madrid

Type of entity: -

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 01/09/2022 - 31/08/2024

Duration: 2 years

Total amount: 53.000 €



7 **Name of the project:** Desarrollo de Materiales y Nanomateriales Funcionales con Altas Prestaciones para Aplicaciones Tecnológicas en Energía, Medioambiente y Salud (PID2020-112848RB-C21).

Entity where project took place: Universidad Complutense de Madrid

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): David Avila Brande

Nº of researchers: 6

Type of participation: Team member

Start-End date: 2021 - 2024

Duration: 2 years

Total amount: 119.700 €

8 **Name of the project:** Nuevas estrategias de síntesis de materiales para aprovechamiento de calor residual, PR65/19-22459

Entity where project took place: Universidad Complutense de Madrid

Type of entity: University

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Jesús Prado Gonjal

Nº of researchers: 6

Funding entity or bodies:

Comunidad de Madrid

Type of entity: -

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 2020 - 2022

Duration: 2 years

Total amount: 54.000 €

9 **Name of the project:** Chemistry of 2D materials: Intercalation Synthesis and Functionalization (CHEM2D - DLV-794126)

Entity where project took place: Instituto de Ciencia de Materiales de Madrid

Type of entity: State agency

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Jesús Prado Gonjal

Nº of researchers: 1

Funding entity or bodies:

Comisión Europea

Type of entity: -

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 2018 - 2020

Duration: 2 years

Total amount: 191.000 €

10 **Name of the project:** Hacia materiales cuanticos emergentes en interfases de oxidos complejos (MAT2017-87134-C2-2-R)

Entity where project took place: Instituto de Ciencia de Materiales de Madrid

Type of entity: State agency

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Mar García Hernández

Funding entity or bodies:

Ministerio de Economía, Industria y Competitividad

Start-End date: 2018 - 2020

Duration: 3 years

Total amount: 200.000 €



11 Name of the project: Materiales para la Energía: eléctricos, magnéticos y superconductores S2013/MIT-2753

Entity where project took place: Universidad Complutense de Madrid

Type of entity: University

Nº of researchers: 46

Funding entity or bodies:

Comunidad de Madrid

Type of entity: -

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 01/10/2014 - 30/09/2018

Total amount: 740.952,48 €

Applicant's contribution: Grupo asociado: University of Reading

12 Name of the project: Optimización de propiedades electronicas de dispositivos de interfase: spin - orbitronica y spin - memristores (MAT2014-52405-C2-2-R)

Entity where project took place: Instituto de Ciencia de Materiales de Madrid **Type of entity:** State agency

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Mar García Hernández

Funding entity or bodies:

Ministerio de Economía, Industria y Competitividad

Start-End date: 2015 - 2018

Duration: 3 years

Total amount: 210.000 €

13 Name of the project: Identifying Cost Effective Routes To Optimised Energy Recovery For The Fuel Economy Of Vehicles Principal Investigator: Powell, Professor A

Type of project: Research and development, including transfer

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: University of Reading

Type of entity: University

City of entity: Reading, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom

Name principal investigator (PI, Co-PI....): Anthony V. Powell

Funding entity or bodies:

EPSRC (Engineering and Physical Sciences Research Council)

Type of entity: State agency

City funding entity: United Kingdom

Start-End date: 01/10/2013 - 30/09/2016

Total amount: 1.182.402 €

14 Name of the project: Materiales Funcionales: Síntesis, Caracterización y propiedades MAT2010-19460

Identify key words: Chemistry of the elements of transition; Ceramics; Semiconductors; Nanomaterials; Magnetics; Lanthanum metals and acthanum metals; Structural determination and study of properties physical-chemistries

Type of project: Research and development, including transfer

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad Complutense de Madrid

Type of entity: University

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Regino Sáez Puche

Nº of researchers: 12

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación. Investigación

Type of entity: Public**City funding entity:** Madrid, Community of Madrid, Spain**Type of participation:** Others**Start-End date:** 05/04/2010 - 30/06/2014**Duration:** 4 years - 2 months - 25 days**Total amount:** 240.000 €**Dedication regime:** Part time**15 Name of the project:** Materiales para la Energía y Relacionados (S2009PPQ-1626)**Identify key words:** Chemistry of solid state; Materials; Structural determination and study of properties physical-chemistries**Type of project:** Research and development, including transfer**Geographical area:** National**Degree of contribution:** Researcher**Entity where project took place:** Universidad Complutense de Madrid**Type of entity:** University**City of entity:** Madrid, Community of Madrid, Spain**Name principal investigator (PI, Co-PI....):** Miguel Ángel Alario Franco**Nº of researchers:** 70**Funding entity or bodies:**

Comunidad de Madrid

Type of entity: Public**City funding entity:** Madrid, Community of Madrid, Spain**Type of participation:** Others**Start-End date:** 01/01/2010 - 31/05/2014**Duration:** 4 years - 5 months**Total amount:** 750.000 €**Dedication regime:** Part time**16 Name of the project:** Spin and Orbital Physics: Research of Advanced New Oxides (SOPRANO) Seventh Framework Programme**Identify key words:** Chemistry of the elements of transition; Chemistry of principal group elements; Superstructures and defects; Chemical surface; Non stoichiometric; Solid reactivity; Oxides and sulfides; Materials; Lanthanum metals and actinide metals; Physics**Type of project:** Research and development, including transfer**Geographical area:** European Union**Degree of contribution:** Researcher**Entity where project took place:** CRISMAT Ensicaen - Centre National de la Recherche Scientifique (CNRS)**City of entity:** Caen, Basse-Normandie, France**Name principal investigator (PI, Co-PI....):** Sylvie Hébert; Miguel Ángel Alario Franco**Nº of researchers:** 46**Funding entity or bodies:**

European Union - FP7

Type of participation: Others**Start-End date:** 01/10/2008 - 01/10/2012**Duration:** 4 years**Total amount:** 4.655.991 €**Dedication regime:** Full time

Scientific and technological activities

Scientific production

H index: 22

Date of application: 19/07/2024

Source of H-Index: GOOGLE SCHOLAR

Publications, scientific and technical documents

- 1** Irene Ojeda; Cristian B Arenas; Raúl Calle-Gil; Soheila Ebrahimi-Koodehi; Daniel Garcia-Gimenez; María José Torralvo; Jesús Prado-Gonjal; Javier Carretero-González; Elizabeth Castillo. Cellulose nanocrystal-derived carbon electrodes for sustainable potassium-ion charge storage systems. Sustainable Materials and Technologies. 40, pp. e00932. 2024.

Type of production: Scientific paper	Format: Journal
Impact source: SCOPUS	Category: ENERGY & FUELS
Impact index in year of publication: 8.6	Journal in the top 25%: Yes
Position of publication: 31	No. of journals in the cat.: 170
- 2** Irene Caro, Marta María González-Barrios; Óscar J Dura, Erik Fransson, Jose J Plata; David Ávila-Brandé, Javier Fdez Sanz; Jesús Prado-Gonjal; Antonio Márquez. Challenges reconciling theory and experiments in the prediction of lattice thermal conductivity: the case of Cu-based sulvanites. Chemistry of Materials. ACCEPTED, 2024.

Type of production: Scientific paper	Format: Journal
Impact source: SCOPUS	Category: MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 7,2	Journal in the top 25%: Yes
Position of publication: 85	No. of journals in the cat.: 438
- 3** Monica Chivite; Jesús Prado-Gonjal; José Antonio Alonso; M.T. Fernandez Diaz; Vanessa Cascos. High performance of SrCo_{1-x}Zr_xO_{3-δ} perovskite cathodes for IT-SOFCs. Ceramics International. 50 - 15, Elsevier, 2024. Available on-line at: <<https://doi.org/10.1016/j.ceramint.2024.04.424>>.

Type of production: Scientific paper	Format: Journal
Impact source: SCOPUS	Category: MATERIALS SCIENCE, CERAMICS
Impact index in year of publication: 5.1	Journal in the top 25%: Yes
Position of publication: 3	No. of journals in the cat.: 31
- 4** Mónica Chivite Lacaba; Jesús Prado-Gonjal; Loreto Troncoso; José Antonio Alonso; Vanessa Cascos. SrCo_{0.50}Fe_{0.40}Ir_{0.10}O_{3-δ} Decorated with Pd and La_{0.8}Sr_{0.2}Ga_{0.83}Mg_{0.17}O_{3-δ}: A Cleaner Electrode for Intermediate-Temperature Solid Oxide Fuel Cells with Reduced Cobalt Content. ACS Applied Energy Materials. 2024. Available on-line at: <<https://doi.org/10.1021/acsaem.2c03569>>.

DOI: 10.1021/acsaem.2c03569

Type of production: Scientific paper	Format: Journal
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- 5** Santiago Jimenez-Villegas; Paul Addo; Haris Masood Ansari; Simon Trudel; Jesús Prado-Gonjal; Beatriz Molero-Sanchez. Evaluation of perovskite-type contact paste materials for reversible solid oxide fuel cell stacks. *Journal of Alloys and Compounds*. 949, pp. 169881 - 169881. 2023. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0925838823011842>>. ISSN 0925-8388
Type of production: Scientific paper **Format:** Journal
- 6** Jesús Prado-Gonjal; Paz Vaqueiro; Radoslaw M. Kowalczyk; Ronald I. Smith; Anthony V. Powell. Lithium-Filled Skutterudites by Intercalation at Ambient-Temperature. *Zeitschrift für anorganische und allgemeine Chemie*. 649 - 17, pp. e202300087 - e202300087. 2023. Available on-line at: <<https://onlinelibrary.wiley.com/doi/abs/10.1002/zaac.202300087>>.
Type of production: Scientific paper **Format:** Journal
- 7** Mónica Chivite Lacaba; Alex Alveal; Jesús Prado-Gonjal; José Antonio Alonso; María Teresa Fernández Díaz; Loreto Troncoso; Vanessa Cascos. Reducing the Cobalt Content in SrCo_{0.95}Ti_{0.05}O_{3-δ}-Based Perovskites to Produce Cleaner Cathodes for IT-SOFCs. *ACS Applied Energy Materials*. 6 - 2, pp. 1046 - 1055. 2023. Available on-line at: <<https://doi.org/10.1021/acsaem.2c03569>>.
Type of production: Scientific paper **Format:** Journal
Source of citations: Google Scholar **Citations:** 3
- 8** Elizabeth Castillo-Martínez; Kenneth R. Poeppelmeier; Mercouri G. Kanatzidis; Jesús Prado-Gonjal; Elena M. Mesa-Bribián; David Ávila-Brandé. The wide field of Solid State Chemistry: A tribute to Prof Miguel Angel Alario-Franco on his 80th birthday. *Journal of Solid State Chemistry*. 321, pp. 123853 - 123853. 2023. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0022459623000208>>. ISSN 0022-4596
Type of production: Scientific paper **Format:** Journal
- 9** Kalpana Singh; Paul Kwesi Addo; Venkataraman Thangadurai; Jesús Prado-Gonjal; Beatriz Molero-Sánchez. LaNi_{0.6}Co_{0.4-x}Fe_xO_{3-δ} as Air-Side Contact Material for La_{0.3}Ca_{0.7}Fe_{0.7}Cr_{0.3}O_{3-δ}; Reversible Solid Oxide Fuel Cell Electrodes. *Crystals*. 12 - 1, 2022. Available on-line at: <<https://www.mdpi.com/2073-4352/12/1/73>>. ISSN 2073-4352
Type of production: Scientific paper **Format:** Journal
Position of signature: 4
Total no. authors: 5
- 10** Crisanto García-Ramos; Vanessa Cascos; Jesús Prado-Gonjal; Rainer Schmidt; María Teresa Fernández-Díaz; Kiril Krezhov; José Antonio Alonso. BaFe_{0.875}Re_{0.125}O_{3-δ} and BaFe_{0.75}Ta_{0.25}O_{3-δ} as potential cathodes for solid-oxide fuel-cells: a structural study from neutron diffraction data. *Zeitschrift für Kristallographie - Crystalline Materials*. 237 - 8-9, pp. 303 - 309. 2022. Available on-line at: <<https://doi.org/10.1515/zkri-2022-0027>>.
Type of production: Scientific paper **Format:** Journal
- 11** Jesús Prado-Gonjal; Marta María González-Barrios; María Teresa Fernández-Díaz; Paul Kwesi Addo; Beatriz Molero-Sánchez. Crystal structure and electrical properties of LaNi_{0.6}Fe_{0.2}Cu_{0.2}O_{3-δ} and LaNi_{0.6}Fe_{0.3}Cr_{0.1}O_{3-δ} perovskites: Contact materials for reversible solid oxide fuel cell electrodes. *Journal of Solid State Chemistry*. 316, pp. 123526 - 123526. 2022. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S002245962200651X>>. ISSN 0022-4596
Type of production: Scientific paper **Format:** Journal
Source of citations: Google Scholar **Citations:** 2
- 12** Alois Kuhn; Juan Carlos Pérez Flores; Jesús Prado Gonjal; Emilio Morán; M Hoelzel; Virginia Diez; Isabel Sobrados; Jesús Sanz; Flaviano García Alvarado. Lithium intercalation mechanism and critical role of structural water in layered H₂V₃O₈ high-capacity cathode material for lithium ion batteries. *Chemistry of Materials*. 34 - 2, pp. 694. ACS Publications, 2022.
DOI: 10.1021/acs.chemmater.1c03283
Type of production: Scientific paper **Format:** Journal

**Position of signature:** 3**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 9**Impact source:** ISI**Category:** Science Edition - CHEMISTRY, PHYSICAL**Impact index in year of publication:** 9.811**Journal in the top 25%:** Yes**Position of publication:** 24**No. of journals in the cat.:** 162**Source of citations:** Scholar**Citations:** 7

- 13** Marta María González-Barrios; Marina Tabuyo-Martínez; Vanessa Cascos; Óscar {Juan Durá}; José Antonio Alonso; David Ávila-Brande; Jesús Prado-Gonjal. Microwave-assisted synthesis of thermoelectric oxides and chalcogenides. *Ceramics International*. 48 - 9, pp. 12331 - 12341. 2022. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0272884222000979>>. ISSN 0272-8842

Type of production: Scientific paper**Format:** Journal**Corresponding author:** Yes**Citations:** 4

- 14** Elena Sánchez-Ahijón; Rainer Schmidt; Xabier {Martínez de Irujo-Labelde}; Haris Masood Ansari; María Teresa Fernández-Díaz; Emilio Morán; Beatriz Molero-Sánchez; Jesús Prado-Gonjal. Structural and dielectric properties of ultra-fast microwave-processed $\text{La}_{0.3}\text{Ca}_{0.7}\text{Fe}_{0.7}\text{Cr}_{0.3}\text{O}_{3-\delta}$ ceramics. *Journal of Solid State Chemistry*. 314, pp. 123426 - 123426. 2022. Available on-line at: <<https://www.sciencedirect.com/science/article/pii/S0022459622005515>>. ISSN 0022-4596

Type of production: Scientific paper**Format:** Journal**Source of citations:** Google Scholar**Citations:** 4

- 15** Jesus Prado Gonjal; C A Lopez; R M Pinacca; F Serrano Sanchez; N M Nemes; O Juan Durá; J L Martinez; M T Fernandez Diaz; J A Alonso. Correlation between Crystal Structure and Thermoelectric Properties of $\text{Sr}_{1-x}\text{Ti}_{0.9}\text{Nb}_{0.1}\text{O}_{3-\delta}$ Ceramics. *Crystals*. 10 - 2, pp. 100. MDPI, 2020.

Type of production: Scientific paper**Format:** Journal**Position of signature:** 1**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 9**Corresponding author:** Yes**Impact source:** ISI**Impact index in year of publication:** 2.06

- 16** Elena Sanchez Ahijon; Rafael Marin Gamero; Beatriz Molero Sánchez; David Avila Brande; Alicia Manjon Sanz; M Teresa Fernandez Diaz; Emilio Morán; Rainer Schmidt; Jesús Prado Gonjal. From theory to experiment: $\text{BaFe}_{0.125}\text{Co}_{0.125}\text{Zr}_{0.75}\text{O}_{3-\delta}$, a highly promising cathode for intermediate temperature SOFCs. *Journal of Materials Chemistry A*. 8 - 6, pp. 3413 - 3420. Royal Society of Chemistry, 2020.

DOI: 10.1039/C9TA12208G**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 9**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 9**Corresponding author:** Yes**Impact source:** SCOPUS**Category:** Science Edition - ENERGY & FUELS**Impact index in year of publication:** 10.73**Journal in the top 25%:** Yes**Position of publication:** 4**No. of journals in the cat.:** 92**Source of citations:** Scholar**Citations:** 17

- 17** Jesús Prado Gonjal; Javier Gainza; Isabel Aguayo; Oscar Juan Durá; Sara Rodríguez Pérez; Federico Serrano Sánchez; Norbert M. Nemes; María Teresa Fernández-Díaz; José Antonio Alonso; Emilio Morán. High thermoelectric performance of rapidly microwave-synthesized Sn_{1-δ}S. *Materials Advances*. Accepted, Royal Society of Chemistry, 2020.
DOI: 10.1039/D0MA00301H
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 10
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
- 18** Mourad Smari; Rihab Hamdi; Jesús Prado Gonjal; Raquel Cortés Gil; Essebti Dhahri; Federico Mompean; Mar García Hernández; Rainer Schmidt. Magnetoimpedance spectroscopy of phase-separated La_{0.5}Ca_{0.5}MnO₃ polycrystalline manganites. *Physical Chemistry Chemical Physics*. 22, pp. 11625 - 11636. Royal Society of Chemistry, 2020.
DOI: 10.1039/D0CP00794C
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 8
Impact source: SCOPUS
Impact index in year of publication: 3.567
Position of publication: 27
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Physical and Theoretical Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 158
- 19** Javier Gainza; Federico Serrano Sánchez; João E. Rodrigues; Jesús Prado Gonjal; Norbert M. Nemes; Neven Biskup; Oscar Juan Durá; José L. Martínez; François Fauth; José Antonio Alonso. Unveiling the Correlation between the Crystalline Structure of M-Filled CoSb₃ (M = Y, K, Sr) Skutterudites and Their Thermoelectric Transport Properties. *Advanced Functional Materials*. Accepted, WILEY-VCH, 2020.
DOI: 10.1002/adfm.202001651
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 10
Impact source: SCOPUS
Impact index in year of publication: 15.621
Position of publication: 5
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Electronic, Optical and Magnetic Materials
Journal in the top 25%: Yes
No. of journals in the cat.: 436
- 20** A. Gomez; E. Chavarriaga; J.L. Izquierdo; Jesus Prado Gonjal; Federico Mompean; N Rojas; O. Moran. Assessment of the relationship between magnetotransport and magnetocaloric properties in nano-sized La_{0.7}Ca_{0.3}Mn_{1-x}Ni_xO₃ manganites. *Journal of Magnetism and Magnetic Materials*. 469, pp. 558 - 569. Elsevier, 01/01/2019.
DOI: 10.1016/j.jmmm.2018.09.036
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 8
Impact source: SCOPUS
Impact index in year of publication: 2.683
Position of publication: 82
Source of citations: Scholar
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - MULTIDISCIPLINARY SCIENCES
Journal in the top 25%: No
No. of journals in the cat.: 285
Citations: 14



- 21** Braulio Beltran; Jesús Prado Gonjal; Anthony Powell; Fernando Martínez-Julián; Jorge Garcia Cañadas. Complete Characterization of Thermoelectric Materials by Impedance Spectroscopy. The Journal of Physical Chemistry C. 123 - 20, pp. 12608. American Chemical Society, 2019.
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 5
Impact source: ISI
Impact index in year of publication: 4.30
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: Yes
- 22** Braulio Beltran; Jesús Prado Gonjal; Anthony Powell; Jorge Garcia Cañadas. Experimental conditions required for accurate measurements of electrical resistivity, thermal conductivity, and dimensionless figure of merit (ZT) using Harman and impedance spectroscopy methods. Journal of Applied Physics. 125, pp. 025111. AIP, 2019.
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 2.176
Position of publication: 58
Source of citations: Scholar
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - PHYSICS, APPLIED
No. of journals in the cat.: 146
Citations: 23
- 23** Javier Gainza; Federico Serrano Sanchez; Jesús Prado Gonjal; Norbert M. Nemes; N. Biskup; Oscar Juan Durá; Jose Luis Martínez; F Fauth; Jose Antonio Alonso. Substantial thermal conductivity reduction in mischmetal skutterudites $\text{Mm x Co}_4\text{Sb}_{12}$ prepared under high-pressure conditions, due to uneven distribution of the rare-earth elements. Journal of Material Chemistry C. 7, pp. 4124 - 4131. RSC, 2019.
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 9
Impact source: ISI
Impact index in year of publication: 6.641
Source of citations: Scholar
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Chemistry
Journal in the top 25%: Yes
Citations: 20
- 24** Jesús Prado Gonjal; Matthew Phillips; Paz Vaquero; Gao Min; Anthony V. Powell. Skutterudite Thermoelectric Modules with High Volume-Power-Density: Scalability and Reproducibility. ACS Applied Energy Materials. 1 - 11, pp. 6609 - 6618. ACS, 02/11/2018.
DOI: 10.1021/acsaem.8b01548
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 5
Source of citations: Scholar
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 30
- 25** Federico Serrano Sanchez; Jesús Prado Gonjal; Norbert M. Nemes; N. Biskup; Oscar Juan Dura; Jose Luis Martinez; M.Teresa Fernández Diaz; Francois Faith; Jose Antonio Alonso. Thermal Conductivity Reduction by Fluctuation of the Filling Fraction in Filled Cobalt Antimonide Skutterudite Thermoelectrics. ACS Applied Energy Materials. 1 - 11, pp. 6181 - 6189. ACS, 28/09/2018.

**DOI:** 10.1021/acsaem.8b01227**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 9**Source of citations:** Scholar**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Citations:** 13

- 26** Federico Serrano Sanchez; Manuel Funes; Norbert M. Nemes; Oscar Juan Durá; Jose Luis Martinez; Jesús Prado Gonjal; M.Teresa Fernandez Diaz; Jose Antonio Alonso. Low lattice thermal conductivity in arc-melted GeTe with Ge-deficient crystal structure. Applied Physics Letters. 113, pp. 083902. AIP Publishing, 21/08/2018.

DOI: 10.1063/1.5043359**Type of production:** Scientific paper**Position of signature:** 6**Total no. authors:** 8**Impact source:** ISI**Impact index in year of publication:** 3.411**Position of publication:** 28**Source of citations:** Scholar**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Science Edition - PHYSICS, APPLIED**Journal in the top 25%:** Yes**No. of journals in the cat.:** 147**Citations:** 14

- 27** Domingo Ruiz Leon; Federico Mompean; Jesús Prado Gonjal; José F. Marco; Mar García Hernández; Rainer Schmidt. Structural, magnetic and dielectric properties of the novel magnetic spinel compounds ZnCoSnO₄ and ZnCoTiO₄. Journal of the European Ceramic Society. 38 - 15, pp. 4986 - 4993. Elsevier, 19/07/2018.

DOI: doi.org/10.1016/j.jeurceramsoc.2018.07.031**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 5**Impact source:** SCOPUS**Impact index in year of publication:** 3.794**Position of publication:** 1**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Ceramics and Composites**Journal in the top 25%:** Yes**No. of journals in the cat.:** 25**Citations:** 3

- 28** Andraž Kocjan; Rainer Schmidt; Ana Lazar; Jesús Prado Gonjal; Janez Kovac; Manca Logar; Federico J Mompean; Mar García Hernández; Eduardo Ruiz-Hitzky; Bernd Wicklein. In situ generation of 3D graphene-like networks from cellulose nanofibres in sintered ceramics. Nanoscale. Royal Society of Chemistry, 27/04/2018.

DOI: 10.1039/C8NR00717A**Type of production:** Scientific paper**Position of signature:** 4**Total no. authors:** 10**Impact source:** SCOPUS**Impact index in year of publication:** 7.367**Position of publication:** 21**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 166**Citations:** 15



- 29** Federico Serrano Sánchez; Jesús Prado Gonjal; N M Nemes; N Biskup; M Varela; O J Dura; JL Martinez; MT Fernandez Diaz; F Fauth; J A Alonso. Low thermal conductivity in La-filled cobalt antimonide skutterudites with an inhomogeneous filling factor prepared under high-pressure conditions. Journal of Materials Chemistry A. 6 - 1, pp. 118 - 126. Royal Society of Chemistry, 2018.
DOI: 10.1039/C7TA08545A
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 10
Impact source: SCOPUS
Impact index in year of publication: 8.867
Position of publication: 4
Source of citations: Scholar
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 92
Citations: 29
- 30** Braulio Beltran; Jesús Prado Gonjal; Anthony Powell; Pawel Ziolkowski; Jorge Garcia Cañadas. Thermal conductivity, electrical resistivity and ZT determination of bulk thermoelectric materials by impedance spectroscopy up to 250°C. Journal of Applied Physics. 2018.
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 5
Impact source: ISI
Impact index in year of publication: 2.176
Position of publication: 58
Source of citations: Google Scholar
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - PHYSICS, APPLIED
No. of journals in the cat.: 146
Citations: 40
- 31** Jesús Prado Gonjal; F Serrano Sánchez; N.M. Nemes; O. J. Dura; J. L. Martinez; M.T. Fernández Díaz; F Fauth; J.A. Alonso. Extra-low thermal conductivity in unfilled CoSb₃-? skutterudite synthesized under high pressure conditions. Applied Physics Letters. 111 - 8, pp. 083902. AIP, 08/2017. ISSN 0003-6951
DOI: 10.1063/1.4993283
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 8
Impact source: ISI
Impact index in year of publication: 3.411
Position of publication: 28
Source of citations: Scholar
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 147
Citations: 21
- 32** Zhijia Yang; Jesús Prado Gonjal; Matthew Phillips; Song Lan; Anthony V Powell; Paz Vaqueiro; Gao Min; Richard Stobard; Rui Chen. Improved Thermoelectric Generator Performance using High Temperature Thermoelectric Materials. SAE Technical Paper. 2017-01-0121, SAE International, 28/03/2017. ISSN 0148-7191
DOI: 10.4271/2017-01-0121
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 9
Source of citations: Scholar
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Citations: 27



- 33** Jesús Prado Gonjal; Paz Vaqueiro; Chris Nuttall; Robert Potter; Anthony V Powell. Enhancing the thermoelectric properties of single and double filled p-type skutterudites synthesized by an up-scaled ball-milling process. Journal of Alloys and Compounds. 695, pp. 3598 - 3604. Elsevier, 25/02/2017.

DOI: 10.1016/j.jallcom.2016.11.404

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 3.03

Position of publication: 58

Source of citations: Scholar

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

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 271

Citations: 29

- 34** Julia Gutierrez Seijas; Jesús Prado Gonjal; David Ávila Brande; Ian Terry; Emilio Morán Miguélez. Microwave-Assisted Synthesis, Microstructure, and Magnetic Properties of Rare-Earth Cobaltites. Inorganic Chemistry. 56 - 1, pp. 627 - 633. American Chemical Society, 03/01/2017.

DOI: 10.1021/acs.inorgchem.6b02557

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 4.82

Position of publication: 4

Source of citations: Scholar

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

Category: Science Edition - CHEMISTRY, INORGANIC & NUCLEAR

Journal in the top 25%: Yes

No. of journals in the cat.: 45

Citations: 17

- 35** Gabin Guélou; Paz Vaqueiro; Jesús Prado Gonjal; Tristan Barbier; Emmanuel Guilmeau; Sylvie Hébert; Winfried Kockelmann; Anthony V. Powell. The Impact of Charge Transfer and Structural Disorder on the Thermoelectric Properties of Cobalt Intercalated TiS₂. Journal of Materials Chemistry C. Accepted, 25/01/2016. ISSN 2050-7526

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 4.696

Position of publication: 33

Source of citations: Scholar

Format: Journal

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

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 260

Citations: 37

- 36** Jesus Prado Gonjal; Julia Gutierrez Seijas; Irene Herrero Ansorregui; Emilio Moran Miguelez; Ian Terry; Rainer Schmidt. The role of defects in microwave and conventionally synthesized LaCoO₃ perovskite. Journal of the European Ceramic Society. 36 - 5, pp. 1197 - 1206. Elsevier, 15/01/2016. ISSN 0955-2219

DOI: 10.1016/j.jeurceramsoc.2015.12.014

Type of production: Scientific paper

Position of signature: 1

Format: Journal

Degree of contribution: Author or co-author of article in journal without external admissions assessment committee

**Total no. authors:** 6**Impact source:** ISI**Impact index in year of publication:** 2.947**Position of publication:** 1**Source of citations:** Scholar**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS**Journal in the top 25%:** Yes**No. of journals in the cat.:** 26**Citations:** 14

- 37** Jesus Prado Gonjal; Romain Heuguet; Daniel Muñoz Gil; Alberto Rivera Calzada; Sylvain Marinel; Emilio Moran Miguelez; Rainer Schmidt. Microwave synthesis & sintering of Sm and Ca co-doped ceria ceramics. International Journal of Hydrogen Energy. 40 - 45, pp. 15640 - 15651. Elsevier, 09/10/2015. ISSN 0360-3199

DOI: 10.1016/j.ijhydene.2015.07.161**Type of production:** Scientific paper**Position of signature:** 1**Format:** Journal**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Total no. authors:** 7**Impact source:** ISI**Impact index in year of publication:** 3.313**Position of publication:** 7**Source of citations:** WOS**Category:** Electrochemistry**Journal in the top 25%:** Yes**No. of journals in the cat.:** 28**Citations:** 14

- 38** Alejandro Gómez Pérez; Jesús Prado Gonjal; Daniel Muñoz Gil; Adrián Andrada Chacón; Javier Sánchez Benítez; Emilio Morán Miguélez; M. Teresa Azcondo; Ulises Amador. Anti-site disorder and physical properties in microwave synthesized RE₂Ti₂O₇ (RE = Gd, Ho) pyrochlores. RSC Advances. 5 - 104, pp. 85229 - 85241. Royal Society of Chemistry, 02/10/2015. ISSN 2046-2069

DOI: 10.1039/C5RA07796F**Type of production:** Scientific paper**Position of signature:** 2**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 9**Impact source:** ISI**Impact index in year of publication:** 3.84**Position of publication:** 33**Source of citations:** WOS**Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 157**Citations:** 3

- 39** Jesus Prado Gonjal; Rainer Schmidt; Emilio Moran Miguelez. Microwave-Assisted Routes for the Synthesis of Complex Functional Oxides. Inorganics. 3 - 2, pp. 101 - 117. Basel(Switzerland): MDPI AG, 12/05/2015. ISSN 2304-6740

DOI: 10.3390/inorganics3020101**Type of production:** Scientific paper**Position of signature:** 1**Format:** Journal**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Total no. authors:** 3**Source of citations:** Google Scholar**Citations:** 26



- 40** Beatriz Molero Sánchez; Jesús Prado Gonjal; David Ávila Brande; Viola Birss; Emilio Morán Miguelez. Microwave-assisted synthesis and characterization of new cathodic material for solid oxide fuel cells: La_{0.3}Ca_{0.7}Fe_{0.7}Cr_{0.3}O_{3-d}. *Ceramics International*. 41 - 7, pp. 8411 - 8416. Elsevier, 26/03/2015. ISSN 0272-8842
DOI: 10.1016/j.ceramint.2015.03.041
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 5
Impact source: ISI
Impact index in year of publication: 2.605
Position of publication: 4
Source of citations: Google Scholar
Format: Journal
Degree of contribution: Author or co-author of article in journal without external admissions assessment committee
Category: MATERIALS SCIENCE, CERAMICS
Journal in the top 25%: Yes
No. of journals in the cat.: 26
Citations: 18
- 41** Beatriz Molero Sánchez; Jesús Prado Gonjal; David Ávila Brande; Min Chen; Emilio Morán Miguelez; Viola Birss. High performance La_{0.3}Ca_{0.7}Cr_{0.3}Fe_{0.7}O_{3-d} air electrode for reversible solid oxide fuel cell applications. *International Journal of Hydrogen Energy*. 40 - 4, pp. 1902 - 1910. Elsevier, 30/01/2015. ISSN 0360-3199
DOI: 10.1016/j.ijhydene.2014.11.127
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 6
Impact source: ISI
Impact index in year of publication: 3.313
Position of publication: 7
Source of citations: Scholar
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Electrochemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 28
Citations: 59
- 42** Jesús Prado Gonjal; Beatriz Molero Sánchez; David Ávila; Emilio Morán; Juan Carlos Pérez Flores; Alois Kuhn; Flaviano García Alvarado. The intercalation chemistry of H₂V₃O₈ nanobelts synthesised by a green, fast and cost-effective procedure. *Journal of Power Sources*. 232, pp. 173 - 180. Elsevier, 15/06/2013. ISSN 0378-7753
DOI: 10.1016/j.jpowsour.2012.12.125
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 7
Impact source: ISI
Impact index in year of publication: 5.211
Position of publication: 2
Source of citations: WOS
Format: Journal
Degree of contribution: Author or co-author of article in journal without external admissions assessment committee
Category: ELECTROCHEMISTRY
Journal in the top 25%: Yes
No. of journals in the cat.: 28
Citations: 31
- 43** Jesús Prado Gonjal; Rainer Schmidt; Juan José Romero; David Ávila; Ulises Amador; Emilio Morán Miguélez. Microwave-Assisted Synthesis, Microstructure, and Physical Properties of Rare-Earth Chromites. *Inorganic Chemistry*. 52 - 1, pp. 313 - 320. American Chemical Society, 01/01/2013. ISSN 0020-1669
DOI: 10.1021/ic302000j
Type of production: Scientific paper
Position of signature: 1
Format: Journal

**Total no. authors:** 6**Impact source:** ISI**Impact index in year of publication:** 4.794**Position of publication:** 4**Source of citations:** Google Scholar**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Category:** CHEMISTRY, INORGANIC & NUCLEAR**Journal in the top 25%:** Yes**No. of journals in the cat.:** 45**Citations:** 131

- 44** Rainer Schmidt; Martin C. Stennett; Neil C Hyatt; Jan Pokorny; Jesús Prado Gonjal; Derek C Sinclair; Ming Li. Effects of sintering temperature on the internal barrier layer capacitor (IBLC) structure in $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ (CCTO) ceramics. Journal of the European Ceramic Society. 32 - 12, pp. 3313 - 3323. Elsevier, 30/09/2012. ISSN 0955-2219

Type of production: Scientific paper**Position of signature:** 5**Format:** Journal**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Total no. authors:** 7**Impact source:** ISI**Impact index in year of publication:** 2.36**Position of publication:** 1**Source of citations:** Scholar**Category:** MATERIALS SCIENCE, CERAMICS**Journal in the top 25%:** Yes**No. of journals in the cat.:** 27**Citations:** 311

- 45** Jesús Prado Gonjal; Rainer Schmidt; Jesús Espíndola Canuto; Paola Ramos Álvarez; Emilio Morán Miguélez. Increased ionic conductivity in microwave hydrothermally synthesized rare-earth doped ceria $\text{Ce}_{1-x}\text{RE}_x\text{O}_{2-(x/2)}$. Journal of Power Sources. 209, pp. 163 - 171. Elsevier, 01/07/2012. ISSN 0378-7753

DOI: 10.1016/j.jpowsour.2012.02.082**Type of production:** Scientific paper**Position of signature:** 1**Format:** Journal**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 4.675**Position of publication:** 9**Source of citations:** Google Scholar**Category:** ENERGY & FUELS**Journal in the top 25%:** Yes**No. of journals in the cat.:** 81**Citations:** 80

- 46** Jesús Prado Gonjal; Rainer Schmidt; David Ávila; Ulises Amador; Emilio Morán. Structural and physical properties of microwave synthesized orthorhombic perovskite erbium chromite ErCrO_3 . Journal of the European Ceramic Society. 32 - 3, pp. 611 - 618. Elsevier, 31/03/2012. ISSN 0955-2219

DOI: 10.1016/j.jeurceramsoc.2011.10.002**Type of production:** Scientific paper**Position of signature:** 1**Format:** Journal**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 2.36**Position of publication:** 1**Category:** MATERIALS SCIENCE, CERAMICS**Journal in the top 25%:** Yes**No. of journals in the cat.:** 27

**Source of citations:** WOS**Citations:** 35

- 47** Jesús Prado Gonjal; David Ávila; María Elena Villafuerte Castrejón; Federico González García; Luis Fuentes; R. W. Gómez; J. L. Pérez Mazariego; V. Marquina; Emilio Morán Miguelez. Structural, microstructural and Mössbauer study of BiFeO₃ synthesized at low temperature by a microwave-hydrothermal method. Solid State Sciences. 13 - 11, pp. 2030 - 2036. Elsevier Masson, 30/11/2011. ISSN 1293-2558

DOI: 10.1016/j.solidstatesciences.2011.09.006**Type of production:** Scientific paper**Position of signature:** 1**Format:** Journal**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Total no. authors:** 42**Impact source:** ISI**Impact index in year of publication:** 1.856**Position of publication:** 22**Category:** CHEMISTRY, INORGANIC & NUCLEAR**Journal in the top 25%:** No**No. of journals in the cat.:** 45**Source of citations:** WOS**Citations:** 29**Relevant results:** In Top25 list - ScienceDirect: Solid State Science From January to December 2012 full year

- 48** María Elena Villafuerte Castrejón; Marco García Guadarrama; Luis Fuentes; Jesús Prado Gonjal; Amador M. González; Miguel Ángel de la Rubia; Mar García Hernández; Emilio Morán Miguelez. New Fe³⁺/Cr³⁺ Perovskites with Anomalous Transport Properties: The Solid Solution La_xBi_{1-x}Fe_{0.5}Cr_{0.5}O₃ (0.4 < x < 1). Inorganic Chemistry. 50 - 17, pp. 8340 - 8347. American Chemical Society, 25/07/2011. ISSN 0020-1669

DOI: 10.1021/ic2008864**Type of production:** Scientific paper**Position of signature:** 4**Format:** Journal**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Total no. authors:** 8**Impact source:** ISI**Impact index in year of publication:** 4.601**Position of publication:** 4**Category:** CHEMISTRY, INORGANIC & NUCLEAR**Journal in the top 25%:** Yes**No. of journals in the cat.:** 45**Source of citations:** Google Scholar**Citations:** 17

- 49** Jesús Prado Gonjal; Emilio Morán. Síntesis asistida por microondas de sólidos inorgánicos. Anales de Química. 107 - 2, pp. 129 - 136. RSEQ, 01/04/2011. ISSN 1575-3417

Type of production: Scientific paper**Position of signature:** 1**Format:** Journal**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Source of citations:** Google Scholar**Citations:** 51

- 50** Jesús Prado Gonjal; Ángel M. Arévalo López; Emilio Morán Miguelez. Microwave-assisted synthesis: A fast and efficient route to produce LaMO₃ (M=Al, Cr, Mn, Fe, Co) perovskite materials. Materials Research Bulletin. 46 - 2, pp. 222 - 230. Pergamon-Elsevier Sc Ltd, 28/02/2011. ISSN 0025-5408

DOI: 10.1016/j.materresbull.2010.11.010**Type of production:** Scientific paper**Position of signature:** 1**Format:** Journal**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Total no. authors:** 3

**Impact source:** ISI**Impact index in year of publication:** 2.105**Position of publication:** 71**Source of citations:** Google Scholar**Relevant results:** In Top25 list - ScienceDirect: Materials Research Bulletin From January to March 2011**Category:** MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** No**No. of journals in the cat.:** 241**Citations:** 81

- 51** Jesús Prado Gonjal; María Elena Villafuerte Castrejón; Luis Fuentes; Emilio Morán Miguélez. Microwave-hydrothermal synthesis of the multiferroic BiFeO₃. Materials Research Bulletin. 44 - 8, pp. 1734 - 1737. Pergamon-Elsevier Sc, 05/08/2009. ISSN 0025-5408

DOI: 10.1016/j.materresbull.2009.03.015**Type of production:** Scientific paper**Position of signature:** 1**Format:** Journal**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Total no. authors:** 4**Impact source:** ISI**Impact index in year of publication:** 1.913**Position of publication:** 71**Source of citations:** Scholar**Relevant results:** 1) In Top25 list - ScienceDirect: Materials Research Bulletin, From January to March 2011. 2) In Most Cited Materials Research Bulletin Articles list.**Category:** MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** No**No. of journals in the cat.:** 241**Citations:** 123

- 52** Rodrigo González Prieto; Santiago Herrero; Reyes Jiménez Aparicio; Emilio Morán Miguélez; Jesús Prado Gonjal; Rainer Schmidt. Microwave-assisted solvothermal synthesis of inorganic compounds (molecular and non molecular). Microwave Chemistry. Chapter 17, Walter De Gruyter Inc, 15/09/2017. ISBN 978-3110479928

Type of production: Book chapter**Position of signature:** 5**Format:** Book**Degree of contribution:** Author or co-author of chapter in book**Total no. authors:** 6**Citations:** 1

- 53** Jesús Prado Gonjal; Romain Heuguet; Sylvain Marinel; Emilio Morán Miguélez; Rainer Schmidt. Novel Synthetic Techniques for Nanomaterials. Advanced Environmental Analysis. 1, pp. 35 - 57. Cambridge(United Kingdom): The Royal Society of Chemistry, 08/11/2016. ISBN 978-1-78262-144-7

DOI: 10.1039/9781782623625-00035**Type of production:** Book chapter**Position of signature:** 1**Format:** Book**Degree of contribution:** Author or co-author of chapter in book**Total no. authors:** 5

- 54** Rainer Schmidt; Jesus Prado Gonjal; Emilio Moran Miguelez. Microwave-assisted hydrothermal synthesis of nanoparticles. CRC Concise Encyclopedia of Nanotechnology. Boca Raton(United States of America): CRC Press Taylor & Francis Group, 01/2015. ISBN 9781466580343

Type of production: Book chapter**Degree of contribution:** Author or co-author of chapter in book**Format:** Book**Citations:** 11

- 55** Rainer Schmidt; Jesús Prado Gonjal; David Ávila; Ulises Amador; Emilio Morán. Electron microscopy of microwave-synthesized rare-earth chromites. Microscopy: advances in scientific research and education. 2, pp. 819 - 826. Formatex Research Center, 15/09/2014. ISBN 978-84-942134-4-1
Type of production: Book chapter
Position of signature: 2
Total no. authors: 5
Source of citations: Google Scholar
Format: Book
Degree of contribution: Author or co-author of chapter in book
Citations: 1
- 56** Jesús Prado Gonjal; Rainer Schmidt; Emilio Morán. Microwave-Assisted Synthesis and Characterization of Perovskite Oxides. Perovskite: Crystallography, Chemistry and Catalytic Performance. pp. 117 - 140. Eds. Nova Science Pub Incorporated, 10/10/2012. ISBN 978-1-62417-800-9
Type of production: Book chapter
Position of signature: 1
Total no. authors: 3
Source of citations: Google Scholar
Format: Book
Degree of contribution: Author or co-author of chapter in book
Citations: 11
- 57** Marta Gonzalez Barrios; Marina Tabuyo; David Ávila; Jesús Prado-Gonjal. Perspective on Crystal Structures, Synthetic Methods, and New Directions in Thermoelectric Materials. Small Structures. pp. 2400136. Wiley, 2024. Available on-line at: <doi.org/10.1002/ssstr.202400136>.
Type of production: Scientific edition
Corresponding author: Yes
Impact source: SCOPUS
Impact index in year of publication: 13.9
Position of publication: 31
Format: Journal
Category: MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 438
Impact source: SCOPUS

Works submitted to national or international conferences

- 1** **Title of the work:** Microwave synthesis: a green chemistry approach for the preparation of energy materials
Name of the conference: 3day International Conference on Materials Science
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Date of event: 26/10/2022
End date: 28/10/2022
Organising entity: ICOMAS
City organizing entity: Italy
Jesús Prado Gonjal.
- 2** **Title of the work:** Synthesis and processing of functional solid-state inorganic materials under microwave irradiation
Name of the conference: International Conference on Polymers and Advanced Materials 2022
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Date of event: 16/10/2022
End date: 21/10/2022
Organising entity: UNAM México



City organizing entity: Mexico
Jesús Prado Gonjal.

3 Title of the work: DEVELOPMENT OF NEW HOLLANDITE-TYPE PHASES FOR K-ION BATTERIES

Name of the conference: XXXVIII Reunión Bienal Química

Type of event: Conference

Type of participation: Participatory - oral communication

Date of event: 27/06/2022

End date: 30/06/2022

Organising entity: Real Sociedad Española de Química **Type of entity:** -

City organizing entity: Community of Madrid, Spain

Marta Gonzalez; David Ávila; Elizabeth Castillo; Jesús Prado Gonjal.

4 Title of the work: Towards the efficient and sustainable preparation of thermoelectric materials

Name of the conference: XXXVIII Reunión Bienal Química

Type of event: Conference

Type of participation: 'Participatory - poster

Date of event: 27/06/2022

End date: 30/06/2022

Organising entity: Real Sociedad Española de Química **Type of entity:** -

City organizing entity: Community of Madrid, Spain

Marina Tabuyo; Marta Gonzalez; Manuel Cerro; David Jimenez; Oscar J Dura; Jesús Prado Gonjal.

5 Title of the work: Investigating mayenite electride as a potential thermoelectric material

Name of the conference: RSEQ Symposium 2021

Type of event: Conference

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: online,

Date of event: 27/09/2021

End date: 01/10/2021

Organising entity: Real Sociedad Española de Química **Type of entity:** -

Marina Tabuyo Martinez; Oscar Juan Dura; Jesus Prado Gonjal.

6 Title of the work: Ultrafast synthesis of tin chalcogenides for energy storage and conversion applications

Name of the conference: RSEQ Symposium 2021

Type of event: Conference

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: online,

Date of event: 27/09/2021

End date: 01/10/2021

Organising entity: Real Sociedad Española de Química **Type of entity:** -

Marta M^a Gonzalez Barrios; Oscar Juan Dura; Elizabeth Castillo Martínez; David Avila Brande; Jesus Prado Gonjal.

- 7** **Title of the work:** DISEÑANDO LAS PROPIEDADES ELECTRÓNICAS DE LA MAYENITA
Name of the conference: II congreso sobre Materiales Multifuncionales
Type of event: Conference
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
City of event: Almuñecar, Andalusia, Spain
Date of event: 20/09/2021
End date: 21/09/2021
Organising entity: Universidad de Granada
Type of entity: University
Marina Tabuyo Martinez; Oscar Juan Dura; Jesus Prado Gonjal.
- 8** **Title of the work:** Preparación ultrarrápida de calcogenuros de estaño para aplicaciones energéticas
Name of the conference: II congreso sobre Materiales Multifuncionales
Type of event: Conference
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
City of event: Almuñecar, Andalusia, Spain
Date of event: 20/09/2021
End date: 21/09/2021
Organising entity: Universidad de Granada
Type of entity: University
Marta M^a González Barrios; Oscar Juan Dura; Elizabeth Castillo Martinez; David Avila Brande; Jesus Prado Gonjal.
- 9** **Title of the work:** ESTUDIO DEL ELECTRURO DE MAYENITA COMO MATERIAL TERMOELÉCTRICO
Name of the conference: Jornada de Promoción de la Investigación Básica
Type of event: Conference
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
City of event: Mostoles, Community of Madrid, Spain
Date of event: 08/09/2021
End date: 09/09/2021
Organising entity: Universidad Rey Juan Carlos
Type of entity: University
Marina Tabuyo Martinez; Oscar Juan Dura; Jesus Prado Gonjal.
- 10** **Title of the work:** PREPARACIÓN ULTRARRÁPIDA DE SnQ (Q= S, Se) CON APLICACIÓN EN ALMACENAMIENTO Y CONVERSIÓN DE ENERGÍA
Name of the conference: Jornada de Promoción de la Investigación Básica
Type of event: Conference
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
City of event: Mostoles, Community of Madrid, Spain
Date of event: 08/09/2021
End date: 09/09/2021
Organising entity: Universidad Rey Juan Carlos
Type of entity: University
Marta M^a Gonzalez Barrios; Oscar Juan Dura; David Avila Brande; Elizabeth Castillo Martinez; Jesus Prado Gonjal.
- 11** **Title of the work:** Microwave Chemistry: rapid and sustainable routes for the preparation of energy materials
Name of the conference: European Advanced Material Congress
Type of event: Conference
Reasons for participation: Upon invitation



Type of participation: Participatory - invited/keynote talk

City of event: Stockholm, Sweden

Date of event: 23/08/2021

End date: 25/08/2021

Organising entity: International Association of Advanced Materials

City organizing entity: Stockholm, Sweden

Jesus Prado Gonjal. En: Microwave Chemistry: rapid and sustainable routes for the preparation of energy materials.

12 Title of the work: One-minute synthesis of SnQ (Q = S, Se) thermoelectric materials

Name of the conference: II Virtual Thermoelectric Conference

Type of event: Conference

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: online,

Date of event: 20/07/2021

End date: 22/07/2021

Organising entity: International Thermoelectric Society

Marta M^a González Barrios; Marina Tabuyo Martinez; Oscar Juan Dura; David Avila Brande; Jesus Prado Gonjal.

13 Title of the work: Alternative routes for the rapid and effective synthesis of thermoelectric materials

Name of the conference: ACS Spring Conference

Type of event: Conference

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: (online),

Date of event: 05/04/2021

End date: 16/04/2021

Organising entity: ACS

Marina Tabuyo Martinez; Marta M^a González Barrios; Jimena Gonzalez Cassy; Oscar Juan Dura; Vanessa Cascos Jimenez; David Avila Brande.

14 Title of the work: Microwave-assisted hydrothermal synthesis of multifunctional SnS

Name of the conference: ACS Spring Conference

Type of event: Conference

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: (online),

Date of event: 05/04/2021

End date: 16/04/2021

Organising entity: ACS

Marta M^a González Barrios; Elena Sánchez Ahijón; Elena García Chamorro; Elizabeth Castillo Martinez; David Avila Brande; Jesus Prado Gonjal.

15 Title of the work: Síntesis de materiales para la energía por métodos de “Química Rápida” y “Química Suave”

Name of the conference: LVII Congreso Nacional de la Sociedad Española de Cerámica y Vidrio

Type of event: Conference

Type of participation: Participatory - invited/keynote talk

City of event: Castellón, Valencian Community, Spain



Date of event: 28/10/2020

End date: 29/10/2020

Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

With external admission assessment committee: Yes

Elena Sánchez Ahijón; Elizabeth Castillo Martínez; Jesús Prado Gonjal; Emilio Morán.

- 16** **Title of the work:** Effect of the cooling rate on the internal barrier layer capacitor (IBLC) structure in $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ (CCTO) ceramics
Name of the conference: Electroceramics XVII conference
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Darmstadt, Germany
Date of event: 24/08/2020
End date: 28/08/2020
Organising entity: Universität Darmstadt
City organizing entity: Darmstadt, Germany
Sten Gebel; Jesús Prado Gonjal; Emilio Morán; Rainer Schmidt.
- 17** **Title of the work:** From theory to experiment: $\text{BaFe}_{0.125}\text{Co}_{0.125}\text{Zr}_{0.75}\text{O}_{3-\delta}$, a highly promising cathode for intermediate temperature SOFCs
Name of the conference: Electroceramics XVII conference
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Darmstadt, Germany
Date of event: 24/08/2020
End date: 28/08/2020
Organising entity: Universität Darmstadt
City organizing entity: Darmstadt, Germany
Elena Sánchez Ahijón; Rafael Martín Gamero; Beatriz Molero Sánchez; David Avila Brande; Alicia Manjón Sanz; M.Teresa Fernandez Diaz; Emilio Morán; Rainer Schmidt; Jesús Prado Gonjal.
- 18** **Title of the work:** Microwave-hydrothermal synthesis and thermoelectric characterization of nanostructured $\text{Sn}_{1-\delta}\text{S}$
Name of the conference: Virtual Conference on Thermoelectrics
Type of event: Conference
Type of participation: 'Participatory - poster
Reasons for participation: Review before acceptance
Corresponding author: Yes
Date of event: 21/07/2020
End date: 23/07/2020
Organising entity: International Thermoelectric Society
- 19** **Title of the work:** Growth and characterization of $\text{Zn}_{0.98}\text{M}_{0.02}\text{O}$ (M = Al, Ga, Y) nanoparticles obtained by "fast chemistry methods"
Name of the conference: Euromat2019
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Stockholm, Sweden
Date of event: 09/2019
E de Areba; J Prado Gonjal; A Urbieto; E Morán; P Fernández.



- 20** **Title of the work:** Structural evolution and correlation with thermoelectric properties in filled CoSb₃
Name of the conference: 17th European Conference on Thermoelectrics
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Limassol, Cyprus
Date of event: 09/2019
N M Nemes; J Gainza; F Serrano Sanchez; J Prado Gonjal; O J Durá; N Biskup; J A Alonso.
- 21** **Title of the work:** Preparación y caracterización de perovskitas basadas en BaZrO₃ para su utilización como electrodos en pilas SOFCs
Name of the conference: XIV Reunión Nacional de Electrocerámica
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Castellón, Valencian Community, Spain
Date of event: 06/2019
Organising entity: SECV
Elena Sánchez Ahijón; Jesus Prado Gonjal; Rafael Marin Gamero; Rainer Schmidt; David Avila; Emilio Moran.
- 22** **Title of the work:** Síntesis asistida por microondas de materiales termoeléctricos
Name of the conference: XIV Reunión Nacional de Electrocerámica
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Castellón, Valencian Community, Spain
Date of event: 06/2019
Organising entity: SECV
Jesús Prado Gonjal; Isabel Aguayo; Daniel Voces; Enrique de Areba; O J Dura; Emilio Moran.
- 23** **Title of the work:** Enhancing the thermoelectric performance of SnSe: Alternative methods of synthesis and preparation of SnSe-graphene nanocomposites
Name of the conference: XXXVII Reunión Bienal de la RSEQ
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: San Sebastian, Basque Country, Spain
Date of event: 05/2019
Organising entity: Universidad de Pais Vasco
Jesus Prado Gonjal; Federico Serrano Sánchez; Javier Gainza; Norbert M Nemes; O J Dura; J A Alonso; Emilio Moran.
- 24** **Title of the work:** Microwave synthesis and sintering of La_{0.3}Ca_{0.7}Fe_{0.7}Cr_{0.3}O_{3-δ}, a highly promising oxygen electrode for reversible solid oxide fuel cells
Name of the conference: XXXVII Reunión Bienal de la RSEQ
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: San Sebastian, Basque Country, Spain
Date of event: 05/2019
Organising entity: Universidad de Pais Vasco
Elena Sánchez Ahijón; Jesus Prado Gonjal; Beatriz Molero Sánchez; David Avila; Viola Birss; Emilio Moran.

- 25** **Title of the work:** Transition metal oxides: Potential candidates for energy generation in thermoelectric devices
Name of the conference: XXXVII Reunión Bienal de la RSEQ
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: San Sebastian, Basque Country, Spain
Date of event: 05/2019
Organising entity: Universidad de Pais Vasco
Isabel Aguayo; Daniel Voces; Enrique de Areba; Federico Serrano Sánchez; Javier Gainza; Norbert M Nemes; O J Dura; David Avila; J A Alonso; Emilio Moran; Jesús Prado Gonjal.
- 26** **Title of the work:** ¿Conduciendo hacia el vehículo termoeléctrico?
Name of the conference: 1er Congreso sobre Materiales Multifuncionales para Jóvenes MULTIMAT
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Granada, Andalusia, Spain
Date of event: 09/2018
Organising entity: Universidad de Granada **Type of entity:** University
Jesus Prado Gonjal; Paz Vaqueiro; Anthony V Powell.
- 27** **Title of the work:** Complete characterization of bulk thermoelectric elements up to 250 °C by means of impedance spectroscopy
Name of the conference: 37th Annual International Conference on Thermoelectrics & 16th European Conference on Thermoelectrics
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Caen, Basse-Normandie, France
Date of event: 07/2018
Organising entity: CRISMAT Ensicaen
Braulio Beltrán; Jesús Prado Gonjal; Anthony V Powell; Jorge García Cañadas.
- 28** **Title of the work:** High Pressure Synthesis: An effective approach for tuning thermoelectric properties of filled skutterudites $AxCo_4Sb_{12}$ ($A = K, Sr, Y$, rare earth)
Name of the conference: 37th Annual International Conference on Thermoelectrics & 16th European Conference on Thermoelectrics
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Caen, Basse-Normandie, France
Date of event: 07/2018
Organising entity: CRISMAT Ensicaen
Jesús Prado Gonjal; F Serrano Sánchez; N M Nemes; N Biskup; O J Durá; J L Martínez; M T Fernandez Diaz; F Fauth; J A Alonso.
- 29** **Title of the work:** Problems and sources of errors in the Harman method identified by impedance spectroscopy
Name of the conference: 37th Annual International Conference on Thermoelectrics & 16th European Conference on Thermoelectrics
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Caen, Basse-Normandie, France
Date of event: 07/2018
Organising entity: CRISMAT Ensicaen



Braulio Beltrán; Jesús Prado Gonjal; Anthony V Powell; Jorge García Cañadas.

- 30** **Title of the work:** Relación entre la estructura local de skuteruditas $\text{Co}_{1-2x}\text{Fe}_x\text{Ni}_x\text{Sb}_3$ ($0 \leq x \leq 0.5$) y sus propiedades termoeléctricas
Name of the conference: QIES18
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: La Laguna, Canary Islands, Spain
Date of event: 06/2018
Organising entity: Universidad de La Laguna **Type of entity:** University
Jesús Prado Gonjal; Paz Vaquero; Anthony V Powell.
- 31** **Title of the work:** El transporte del futuro y los materiales termoeléctricos
Name of the conference: III Jornada de Promoción de la Investigación Básica para estudiantes de Ciencias e Ingeniería
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Mostoles, Community of Madrid, Spain
Date of event: 04/2018
Organising entity: Universidad Rey Juan Carlos **Type of entity:** University
Jesús Prado Gonjal.
- 32** **Title of the work:** Síntesis, asistida por microondas, de materiales inorgánicos
Name of the conference: III Jornada de Promoción de la Investigación Básica para estudiantes de Ciencias e Ingeniería
Type of participation: Participatory - oral communication
City of event: Mostoles, Community of Madrid, Spain
Date of event: 04/2018
Organising entity: Universidad Rey Juan Carlos **Type of entity:** University
Isabel Aguayo; Emilio Morán; Jesús Prado Gonjal.
- 33** **Title of the work:** Impedance Spectroscopy applied to thermoelectricity
Name of the conference: I Iberian Thermoelectric Workshop
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Porto, Portugal
Date of event: 09/2017
Organising entity: University of Porto
City organizing entity: Porto, Portugal
With external admission assessment committee: Yes
Jorge García Cañadas; Gao Min; Braulio Beltran; Lourdes Marquez García; Jesus Prado Gonjal.
- 34** **Title of the work:** Influence of structural defects on the thermoelectric properties of SnSe and La -filled CoSb_3
Name of the conference: I Iberian Thermoelectric Workshop
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Porto, Portugal
Date of event: 09/2017
Organising entity: University of Porto



City organizing entity: Porto, Portugal

F Serrano Sánchez; Jesus Prado Gonjal; N M Nemes; O J Durá; J A Alonso.

35 Title of the work: Reducing thermal conductivity of unfilled skutterudites

Name of the conference: Iberian Thermoelectric Workshop

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Porto, Portugal

Date of event: 09/2017

Organising entity: University of Porto

City organizing entity: Porto, Portugal

Jesus Prado Gonjal; F Serrano Sánchez; N M Nemes; O J Durá; Paz Vaqueiro; J A Alonso; Anthony V Powell.

36 Title of the work: Effect of framework substitution on the thermal conductivity of skutterudites

Name of the conference: 14th European Conference on Thermoelectrics

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Lisbon, Lisboa, Portugal

Date of event: 20/09/2016

End date: 23/09/2016

Organising entity: University of Lisbon

Type of entity: University Research Institute

City organizing entity: Lisbon, Lisboa, Portugal

With external admission assessment committee: Yes

Jesús Prado Gonjal; Paz Vaqueiro; Matt Tucker; Anthony V. Powell.

37 Title of the work: Towards cost effective and efficient energy generating skutterudite thermoelectric modules and the use of computational modelling to predict their properties

Name of the conference: 14th European Conference on Thermoelectrics

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Lisbon, Lisboa, Portugal

Date of event: 20/09/2016

End date: 23/09/2016

Organising entity: University of Lisbon

Type of entity: University Research Institute

City organizing entity: Lisbon, Lisboa, Portugal

With external admission assessment committee: Yes

Matthew Phillips; Jesús Prado Gonjal; Paz Vaqueiro; Anthony V. Powell; Gao Min.

38 Title of the work: Reducing Thermal Conductivity of Skutterudites

Name of the conference: 2nd Southern Dalton Meeting

Type of event: Conference

Geographical area: National

Type of participation: Participatory - invited/keynote talk

Reasons for participation: Upon invitation

Corresponding author: Yes

City of event: Reading, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom

Date of event: 05/09/2016



End date: 06/09/2016

Organising entity: Royal Society of Chemistry

Jesús Prado Gonjal; Paz Vaquero; Anthony V. Powell.

- 39 Title of the work:** Thermoelectric Materials for Energy Harvesting from Waste Heat
Name of the conference: 2016 Collaborative Conference on 3D & Materials Research (CC3DMR)
Type of event: Conference **Geographical area:** Non EU International
City of event: Incheon/Seoul, Republic of Korea
Date of event: 20/06/2016
End date: 24/06/2016
Organising entity: Kwangwoon University **Type of entity:** University
City organizing entity: Seoul, Republic of Korea
Anthony Powell; Jesús Prado Gonjal; Gabin Guélou; Panagiotis Mangelis; Paz Vaquero.

- 40 Title of the work:** The effect of framework substitution on the thermoelectric properties of unfilled and filled skutterudites
Name of the conference: RSC Solid State Christmas meeting
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster' **Reasons for participation:** Review before acceptance
Corresponding author: Yes
City of event: Canterbury, Kent, United Kingdom
Date of event: 21/12/2015
End date: 22/12/2015
Organising entity: University of Kent, RSC
City organizing entity: Canterbury, Kent, United Kingdom
With external admission assessment committee: Yes
Jesús Prado Gonjal; Paz Vaquero; Matt Tucker; Anthony V. Powell. 21/12/2015.

- 41 Title of the work:** Enhancing thermoelectric properties of skutterudites by mechanical alloying synthesis
Name of the conference: 34th Annual International Conference on Thermoelectrics & 13th European Conference on Thermoelectrics
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication **Reasons for participation:** Review before acceptance
Corresponding author: Yes
City of event: Dresden, Dresden, Germany
Date of event: 28/06/2015
End date: 02/07/2015
Organising entity: Max Planck Institute **Type of entity:** Public Research Body
City organizing entity: Dresden, Dresden, Germany
With external admission assessment committee: Yes
Jesús Prado Gonjal; Paz Vaquero; Chris Nuttall; Robert Potter; Anthony Powell.

- 42 Title of the work:** Nanocompositing as a Route to Improved Thermoelectric Performance
Name of the conference: 34th Annual International Conference on Thermoelectrics & 13th European Conference on Thermoelectrics
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster' **Reasons for participation:** Review before acceptance
Corresponding author: No



City of event: Dresden, Dresden, Germany

Date of event: 28/06/2015

End date: 02/07/2015

Organising entity: Max Planck Institute

Type of entity: Public Research Body

City organizing entity: Dresden, Dresden, Germany

With external admission assessment committee: Yes

Anthony Powell; Gabin Guélou; Panagiotis Mangelis; Jesús Prado Gonjal; Paz Vaqueiro.

43 Title of the work: Probing structure ? property relationships in thermoelectric materials by neutron diffraction

Name of the conference: 34th Annual International Conference on Thermoelectrics & 13th European Conference on Thermoelectrics

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Dresden, Dresden, Germany

Date of event: 28/06/2015

End date: 02/07/2015

Organising entity: Max Planck Institute

Type of entity: Public Research Body

City organizing entity: Dresden, Dresden, Germany

With external admission assessment committee: Yes

Paz Vaqueiro; Gabin Guélou; Andreas Kaltzoglou; Jesús Prado Gonjal; Anthony Powell.

44 Title of the work: Novel cathode material $\text{La}_{0.3}\text{Ca}_{0.7}\text{Cr}_{0.3}\text{Fe}_{0.7}\text{O}_{3-\delta}$ for SOFC synthesized by microwave-assisted methods

Name of the conference: 14th Conference of the European Ceramic Society

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Toledo, Castile-La Mancha, Spain

Date of event: 21/06/2015

End date: 25/06/2015

Organising entity: Instituto de Cerámica y Vidrio, CSIC

Type of entity: State agency

City organizing entity: Madrid, Community of Madrid, Spain

With external admission assessment committee: Yes

Beatriz Molero; Jesús Prado Gonjal; David Avila Brande; Paul Addo; Viola Birss; Emilio Moran Miguelez.

45 Title of the work: Síntesis y procesado, asistidos por microondas, de materiales electrocerámicos

Name of the conference: XII Reunión Nacional de Electrocerámica

Type of event: Conference

Geographical area: National

Type of participation: Participatory - invited/keynote talk

Reasons for participation: Upon invitation

Corresponding author: No

City of event: Madrid, Community of Madrid, Spain

Date of event: 17/06/2015

End date: 19/07/2015

Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

City organizing entity: Madrid, Community of Madrid, Spain

With external admission assessment committee: Yes



Emilio Morán Miguélez; Jesús Prado Gonjal; Rainer Schmidt.

- 46** **Title of the work:** Thermoelectric properties of $\text{Co}_{1-2x}\text{Fe}_x\text{Ni}_x\text{Sb}_3$ ($0 \leq x \leq 0.5$)
Name of the conference: RSC Solid State Chemistry Group Christmas Meeting
Type of event: Conference
Type of participation: 'Participatory - poster'
Geographical area: National
Reasons for participation: Review before acceptance
Corresponding author: Yes
City of event: Glasgow, United Kingdom
Date of event: 18/12/2014
End date: 19/12/2014
Organising entity: Universities of Glasgow and Strathclyde
Type of entity: University
City organizing entity: Glasgow, United Kingdom
With external admission assessment committee: Yes
Jesús Prado Gonjal; Paz Vaquero; Anthony V. Powell.
- 47** **Title of the work:** $\text{La}_{1-x}\text{Pr}_x\text{CoO}_3$ ($0 \leq x \leq 1$): microwave-assisted synthesis and physical properties
Name of the conference: VIII Encuentro Franco-Español de Química y Física del Estado Sólido
Type of event: Conference
Type of participation: 'Participatory - poster'
Geographical area: European Union
Reasons for participation: Review before acceptance
Corresponding author: No
City of event: Villarreal, Valencian Community, Spain
Date of event: 02/04/2014
End date: 04/04/2014
Organising entity: Universidad Jaime I
Type of entity: University
City organizing entity: Castellón de la Plana, Valencian Community, Spain
Julia Gutiérrez Seijas; Jesús Prado Gonjal; Rainer Schmidt; David Ávila; Emilio Morán Miguélez.
- 48** **Title of the work:** Microwave-assisted synthesis of superconducting oxides
Name of the conference: VIII Encuentro Franco-Español de Química y Física del Estado Sólido
Type of event: Conference
Type of participation: 'Participatory - poster'
Geographical area: European Union
Reasons for participation: Review before acceptance
Corresponding author: No
City of event: Villarreal, Valencian Community, Spain
Date of event: 02/04/2014
End date: 04/04/2014
Organising entity: Universidad Jaime I
Type of entity: University
City organizing entity: Castellón de la Plana, Valencian Community, Spain
Irene Herrero Ansorregui; Jesús Prado Gonjal; Emilio Morán Miguélez; Miguel Ángel Alario Franco.
- 49** **Title of the work:** Síntesis asistida por microondas de sólidos inorgánicos
Name of the conference: XXXIV Reunión Bienal de la Real Sociedad Española de Química
Type of event: Conference
Type of participation: Participatory - oral communication
Geographical area: National
Corresponding author: Yes
City of event: Santander, Cantabria, Spain
Date of event: 15/09/2013
End date: 18/09/2013



Organising entity: Real Sociedad Española de Química

Type of entity: Organismo

Jesús Prado Gonjal; Rainer Schmidt; Alejandro Gómez Pérez; Irene Herrero Ansorregui; Julia Gutiérrez Seijas; Emilio Morán.

- 50 Title of the work:** Síntesis directa asistida por microondas y caracterización de cobaltitas de tierras raras LnCoO₃ (Ln = La-Dy)

Name of the conference: XXXIV Reunión Bienal de la Real Sociedad Española de Química

Geographical area: National

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Santander, Cantabria, Spain

Date of event: 15/09/2013

End date: 18/09/2013

Organising entity: Real Sociedad Española de Química

Type of entity: -

Julia Gutiérrez Seijas; Jesús Prado Gonjal; Rainer Schmidt; David Ávila; Emilio Morán.

- 51 Title of the work:** Cerias dopadas con tierras raras: síntesis hidrotermal asistida por microondas y conductividad iónica

Name of the conference: XI Reunión Nacional de Electrocerámica

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Zaragoza, Aragon, Spain

Date of event: 19/06/2013

End date: 21/06/2013

Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

Jesús Prado Gonjal; Rainer Schmidt; Emilio Morán Miguélez.

- 52 Title of the work:** Propiedades magnéticas y eléctricas de cobaltitas de tierras raras (TRCoO₃, TR= La-Dy) sintetizadas por microondas

Name of the conference: XI Reunión Nacional de Electrocerámica

Type of event: Conference

Geographical area: National

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Zaragoza, Aragon, Spain

Date of event: 19/06/2013

End date: 21/06/2013

Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

Jesús Prado Gonjal; Julia Gutiérrez Seijas; Rainer Schmidt; David Ávila; Emilio Morán Miguélez.

- 53 Title of the work:** Síntesis de sólidos inorgánicos empleando un microondas monomodal

Name of the conference: XI Reunión Nacional de Electrocerámica

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Zaragoza, Aragon, Spain

Date of event: 19/06/2013

End date: 21/06/2013

Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO



Jesús Prado Gonjal; Rainer Schmidt; Romain Heuguet; Ettiene Savary; Sylvain Marinel; Emilio Morán Miguélez.

- 54** **Title of the work:** Microwave-assisted synthesis and characterization of perovskite oxides
Name of the conference: Materials Research Society MRS 2013 Spring Meeting
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: San Francisco, United States of America
Date of event: 01/04/2013
End date: 05/04/2013
Organising entity: Materials Research Society **Type of entity:** Public Research Body
Emilio Morán Miguélez; Jesús Prado Gonjal; Rainer Schmidt; Irene Herrero Ansorregui.
- 55** **Title of the work:** Microwave-hydrothermally synthesized H₂V₃O₈ nanobelts as cathodes for lithium batteries
Name of the conference: Materials Research Society MRS 2013 Spring Meeting
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: San Francisco, United States of America
Date of event: 01/04/2013
End date: 05/04/2013
Organising entity: Materials Research Society **Type of entity:** Public Research Body
Jesús Prado Gonjal; Emilio Morán Miguélez; Beatriz Molero Sánchez; David Ávila; Juan Carlos Pérez Flores; Alois Kuhn; Flaviano García Alvarado.
- 56** **Title of the work:** Single-mode microwave synthesis and physical properties of Ba_{1.2}Mn₈O₁₆ hollandite
Name of the conference: Materials Research Society MRS 2013 Spring Meeting
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: San Francisco, United States of America
Date of event: 01/04/2013
End date: 05/04/2013
Organising entity: Materials Research Society **Type of entity:** Public Research Body
Jesús Prado Gonjal; Emilio Morán Miguélez; Sylvie Hébert; Denis Pelloquin; Sylvain Marinel.
- 57** **Title of the work:** Síntesis hidrotermal asistida por microondas de Ce_{1-x}TR_xO_{2-(x/2)} (TR = Tierra rara) Mejorando la conductividad iónica de electrolitos para pilas SOFC
Name of the conference: XV Reunión Bienal del grupo especializado de Química Inorgánica y IX del Grupo Especializado de Química de Estado Sólido
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Gerona, Catalonia, Spain
Date of event: 01/07/2012
End date: 04/07/2012
Organising entity: Grupo Especializado de Química de Estado Sólido - RSEQ
Jesús Prado Gonjal; Rainer Schmidt; Jesús Espíndola Canuto; Paola Ramos Álvarez; Emilio Morán.



- 58** **Title of the work:** EELS Study of H₂V₃O₈ and their Li-intercalated materials
Name of the conference: VII Encuentro Franco-Español de Química y Física del Estado Sólido
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - others
Corresponding author: No
City of event: Paris, Île de France, France
Date of event: 13/06/2012
End date: 17/06/2012
Organising entity: Université Paris-Sorbonne **Type of entity:** University
City organizing entity: Paris, Île de France, France
Jesús Prado Gonjal; David Ávila Brande; Emilio Morán.
- 59** **Title of the work:** H₂V₃O₈ nanowires Microwave-assisted synthesis, characterization and Li-electrochemistry
Name of the conference: Power Our Future
Type of event: Workshop **Geographical area:** European Union
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Vitoria, Basque Country, Spain
Date of event: 20/03/2012
End date: 21/03/2012
Organising entity: CIC Energigune **Type of entity:** Innovation and Technology Centres
Jesús Prado Gonjal; Beatriz Molero Sánchez; David Ávila Brande; Emilio Morán Miguélez; Juan Carlos Pérez Flores; Alois Kuhn; Flaviano García Alvarado.
- 60** **Title of the work:** Increased ionic conductivity in microwave hydrothermally synthesized rare earth (RE) doped ceria Ce_{1-x}RE_xO₂-(x/2)
Name of the conference: Zing Conferences - Solid State
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Lanzarote, Canary Islands, Spain
Date of event: 24/02/2012
End date: 27/02/2012
Organising entity: Zing Conferences
Jesús Prado Gonjal; Rainer Schmidt; Jesús Espíndola Canuto; Paola Ramos Álvarez; Emilio Morán Miguélez.
- 61** **Title of the work:** Microwave assisted synthesis and physical properties of rare-earth chromites
Name of the conference: Zing Conferences - Solid State
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Lanzarote, Canary Islands, Spain
Date of event: 24/02/2012
End date: 27/02/2012
Organising entity: Zing Conferences
Jesús Prado Gonjal; Rainer Schmidt; David Ávila; Ulises Amador; Emilio Morán Miguélez.



- 62** **Title of the work:** Microwave synthesis and characterization of RE₂Ti₂O₇ (RE = Y, Eu, Tb, Ho, Er, Yb) pyrochlores
Name of the conference: Zing Conferences - Solid State
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Lanzarote, Canary Islands, Spain
Date of event: 24/02/2012
End date: 27/02/2012
Organising entity: Zing Conferences
Alejandro Gómez Pérez; Jesús Prado Gonjal; Emilio Morán Miguélez.
- 63** **Title of the work:** Microwave-assisted synthesis of perovskite materials
Name of the conference: Zing Conferences - Solid State
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Lanzarote, Canary Islands, Spain
Date of event: 24/02/2012
End date: 27/02/2012
Organising entity: Zing Conferences
Emilio Morán Miguélez; Jesús Prado Gonjal.
- 64** **Title of the work:** Microwave-assisted synthesis A "Fast Chemistry" route to produce inorganic materials
Name of the conference: 17th International Symposium on the Reactivity of Solids
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Bourdeaux, Aquitaine, France
Date of event: 27/06/2011
End date: 01/07/2011
Organising entity: CNRS **Type of entity:** Public Research Body
Emilio Morán Miguélez; Jesús Prado Gonjal.
- 65** **Title of the work:** Microwave-assisted synthesis of Rare Earth Chromites
Name of the conference: 17th International Symposium on the Reactivity of Solids
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Bourdeaux, Aquitaine, France
Date of event: 27/06/2011
End date: 01/07/2011
Organising entity: CNRS **Type of entity:** Public Research Body
Emilio Morán Miguélez; Jesús Prado Gonjal; Rainer Schmidt.
- 66** **Title of the work:** Cromitas de tierras raras nuevos materiales multiferroicos sintetizados por microondas
Name of the conference: X Reunión Nacional de Electrocerámica
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Madrid, Community of Madrid, Spain



Date of event: 13/06/2011

End date: 15/06/2011

Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

Jesús Prado Gonjal; David Ávila; Rainer Schmidt; Ulises Amador; Emilio Morán Miguélez.

67 Title of the work: Physical properties of microwave synthesized LaCoO₃

Name of the conference: X Reunión Nacional de Electrocerámica

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Madrid, Community of Madrid, Spain

Date of event: 13/06/2011

End date: 15/06/2011

Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

Jesús Prado Gonjal; Rainer Schmidt; Emilio Morán Miguélez; Ian Terry.

68 Title of the work: Propiedades dieléctricas de BiFeO₃ sintetizado por vía hidrotermal asistida por microondas

Name of the conference: X Reunión Nacional de Electrocerámica

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Madrid, Community of Madrid, Spain

Date of event: 13/06/2011

End date: 15/06/2011

Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

María Elena Villafuerte Castrejón; Jesús Prado Gonjal; Beatriz Molero Sánchez; David Ávila; Luis Fuentes; Federico González García; Emilio Morán Miguélez.

69 Title of the work: Microwave assisted synthesis of inorganic materials

Name of the conference: Seventh International Conference on Inorganic Materials

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

Corresponding author: No

City of event: Biarritz, Aquitaine, France

Date of event: 12/09/2010

End date: 14/09/2010

Organising entity: Elsevier

Type of entity: Business

Emilio Morán Miguélez; Jesús Prado Gonjal; Javier Prado Escudero; Miriam Blanco Carazo; Jose Luis Conde Román.

70 Title of the work: Síntesis asistida por microondas de cromitas de tierras raras

Name of the conference: XIV Reunión Bienal del grupo especializado de Química Inorgánica y VIII del Grupo Especializado de Química de Estado Sólido

Corresponding author: Yes

City of event: Cartagena, Region of Murcia, Spain

Date of event: 12/09/2010

End date: 15/09/2010

Organising entity: Grupo Especializado de Química de Estado Sólido - RSEQ

Type of entity: Public Research Body

Jesús Prado Gonjal; Emilio Morán Miguélez.



- 71** **Title of the work:** Síntesis asistida por microondas y caracterización de óxidos y oxi-hidróxidos de aluminio
Name of the conference: XIV Reunión Bienal del grupo especializado de Química Inorgánica y VIII del Grupo Especializado de Química de Estado Sólido
Corresponding author: No
City of event: Cartagena, Region of Murcia, Spain
Date of event: 12/09/2010
End date: 15/09/2010
Organising entity: Grupo Especializado de Química de Estado Sólido - RSEQ
Type of entity: Public Research Body
Jose Luis Conde Román; Jesús Prado Gonjal; Emilio Morán Miguélez.
- 72** **Title of the work:** Characterization and Mössbauer study of the multiterroic BiFeO₃ synthesized by a microwave hydrothermal method
Name of the conference: XIX International Materials Research
Type of event: Conference
Geographical area: Non EU International
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Cancún, Mexico
Date of event: 15/08/2010
End date: 19/08/2010
Organising entity: Sociedad Mexicana de Materiales / Materials Research Society
Jesús Prado Gonjal; Emilio Morán Miguélez; David Ávila; Luis Fuentes; Roberto Escudero; Federico González García; V. Marquina; María Elena Villafuerte Castrejón.
- 73** **Title of the work:** Characterization and properties of BiFeO₃ synthesized by a microwave-assisted hydrothermal method
Name of the conference: VI Encuentro Franco-Español de Química y Física del Estado Sólido
Type of event: Conference
Geographical area: European Union
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Tarragona, Catalonia, Spain
Date of event: 17/03/2010
End date: 19/03/2010
Organising entity: Universitat Rovira i Virgili
Type of entity: University
Jesús Prado Gonjal; Emilio Morán Miguélez; María Elena Villafuerte Castrejón; Luis Fuentes.
- 74** **Title of the work:** Microwave synthesis of materials for SOFC's components
Name of the conference: I Workshop on Solid Oxide Fuel Cells Materials and Technology
Type of event: Workshop
Geographical area: European Union
Type of participation: 'Participatory - poster
City of event: Albacete, Castile-La Mancha, Spain
Date of event: 18/11/2009
End date: 20/11/2009
Organising entity: Universidad de Castilla la Mancha
Type of entity: University
Jesús Prado Gonjal; Ángel M. Arévalo López; Jesús Canales Vázquez; Emilio Morán Miguélez.
- 75** **Title of the work:** Síntesis -asistida por microondas- y caracterización de perovskitas LaMO₃ (M= Al, Mn, Fe, Co)
Name of the conference: XXXII Reunión Bienal de la Real Sociedad Española de Química
Type of event: Conference
Geographical area: National



Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Oviedo, Principality of Asturias, Spain

Date of event: 13/09/2009

End date: 18/09/2009

Organising entity: Real Sociedad Española de Química

Type of entity: -

Jesús Prado Gonjal; Ángel M. Arévalo López; Emilio Morán.

76 Title of the work: Microwave synthesis and characterization of perovskites LaMO₃ (M = Al, Co, Fe, Mn)

Name of the conference: XVIII International Materials Research

City of event: Cancún, Mexico

Date of event: 18/08/2009

End date: 21/08/2009

Organising entity: Sociedad Mexicana de Materiales / Materials Research Society

Type of entity: Public Research Body

Jesús Prado Gonjal; Ángel M. Arévalo López; Emilio Morán Miguélez.

77 Title of the work: Síntesis por vía hidrotermal y/o microondas del multiferroico BiFeO₃

Name of the conference: XIII Reunión Bienal del grupo especializado de Química Inorgánica y VII del Grupo Especializado de Química de Estado Sólido

Corresponding author: No

City of event: Almuñecar, Andalusia, Spain

Date of event: 16/09/2008

End date: 19/09/2008

Organising entity: Grupo Especializado de Química de Estado Sólido - RSEQ

Jesús Prado Gonjal; Emilio Morán Miguélez; Luis Fuentes; María Elena Villafuerte Castrejón.

78 Title of the work: Microwave - Hydrothermal Synthesis of the multiferroic BiFeO₃

Name of the conference: XVII International Materials Research

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

Corresponding author: No

City of event: Cancún, Mexico

Date of event: 17/08/2008

End date: 21/08/2008

Organising entity: Sociedad Mexicana de Materiales / Materials Research Society

Type of entity: Public Research Body

Jesús Prado Gonjal; Emilio Morán Miguélez; Luis Fuentes; María Elena Villafuerte Castrejón.

79 Title of the work: Multiferroics search synthesis and structural characterization of Bi_xLa_{1-x}Fe_{0.5}Cr_{0.5}O₃, (0.3 ≤ x ≤ 0.7)

Name of the conference: V Encuentro Franco-Español de Química y Física del Estado Sólido

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - poster

Corresponding author: No

City of event: Clermont-Ferrand, Auvergne, France

Date of event: 02/04/2008

End date: 04/04/2008

Organising entity: Clermont-Ferrand

City organizing entity: Clermont-Ferrand, Auvergne, France



María Elena Villafuerte Castrejón; Marco García Guadarrama; Luis Fuentes; Jesús Prado Gonjal; Emilio Morán Miguélez.

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

- 1** **Title of the work:** Síntesis y sinterización por métodos de “Fast Chemistry” de óxidos termoeléctricos $\text{Sr}_{1-x}\text{La}_x\text{TiO}_3$
Name of the event: Jornadas de Jóvenes Investigadores
City of event: Madrid, Community of Madrid, Spain
Date of event: 06/2018
Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
Isabel Aguayo; Jesús Prado Gonjal; Emilio Morán Miguélez.
- 2** **Title of the work:** Neutron diffraction and thermoelectric properties of $\text{Co}_{1-2x}\text{Fe}_x\text{Ni}_x\text{Sb}_3$ ($0 \leq x \leq 0.5$)
Name of the event: VII Red Kite Network meeting
Type of event: Workshop
Corresponding author: Yes
Geographical area: National
City of event: Didcot, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Date of event: 17/06/2015
End date: 17/06/2015
Organising entity: Diamond, ISIS, the Harwell Research Complex and Oxford
City organizing entity: Didcot, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
With external admission assessment committee: Yes
Jesus Prado Gonjal; Paz Vaqueiro; Matt Tucker; Anthony V. Powell.
- 3** **Title of the work:** Thermoelectric properties of $\text{Co}_{1-2x}\text{Fe}_x\text{Ni}_x\text{Sb}_3$ ($0 \leq x \leq 0.5$)
Name of the event: EPSRC Thermoelectric Network Workshop
Type of event: Workshop
Geographical area: National
City of event: Loughborough, Leicestershire, Rutland and Northamptonshire, United Kingdom
Date of event: 14/04/2015
End date: 15/04/2015
Organising entity: Engineering and Physical Sciences Research Council (EPSRC) **Type of entity:** State agency
City organizing entity: Loughborough, Leicestershire, Rutland and Northamptonshire, United Kingdom
With external admission assessment committee: Yes
Jesus Prado Gonjal; Paz Vaqueiro; Anthony V. Powell.
- 4** **Title of the work:** Síntesis y sinterización asistida por microondas de electrolitos para ITSOFCs
Name of the event: II Jornadas de Jóvenes Investigadores
City of event: Madrid, Community of Madrid, Spain
Date of event: 06/06/2013
End date: 06/06/2013
Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
Jesús Prado Gonjal; Rainer Schmidt; Emilio Morán Miguélez.

Science Outreach activities

- 1** **Title of the work:** Revolución energética y cambio climático
Name of the event: 1ª Muestra de Talento Investigador
Reasons for participation: Upon invitation
City of event: Madrid, Community of Madrid, Spain
Date of event: 03/2019
Organising entity: Universidad Complutense de Madrid
Type of entity: University
Jesús Prado Gonjal.
- 2** **Title of the work:** Materiales termoeléctricos: convirtiendo calor en electricidad - CONFERENCIA INVITADA
Name of the event: Seminarios internacionales de fronteras de la ciencia de materiales
Type of event: Conferences given
Reasons for participation: Upon invitation
City of event: Madrid, Community of Madrid, Spain
Date of event: 10/2018
Organising entity: Universidad Politécnica de Madrid
Type of entity: University
Jesús Prado Gonjal.
- 3** **Title of the work:** III Jornada de Promoción de la Investigación Básica para Estudiantes de Ciencias e Ingenierías. - Invited talk
Type of event: Conferences given
City of event: Mostoles, Community of Madrid, Spain
Date of event: 13/04/2018
Organising entity: Universidad Rey Juan Carlos
Type of entity: University
- 4** **Title of the work:** Los Avances de la Química y su Impacto en la Sociedad . Invited talk
Type of event: Conferences given
City of event: Madrid, Community of Madrid, Spain
Date of event: 16/11/2017
Organising entity: Real Sociedad Española de Química
Type of entity: -
- 5** **Title of the work:** Mechanical alloying synthesis and thermoelectric properties of multiple filled skutterudites
Name of the event: University of Reading Research Day
Type of event: Conferences given
Geographical area: Regional
Reasons for participation: Review before acceptance
Corresponding author: Yes
City of event: Reading, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Date of event: 09/06/2015
Organising entity: University of Reading
Type of entity: University
City organizing entity: Reading, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
With external admission assessment committee: Yes
Jesús Prado Gonjal; Paz Vaquero; Chris Nuttall; Robert Potter; Anthony Powell.



6 Title of the work: Invited talk: Síntesis y sinterización asistida por microondas de electrolitos para IT-SOFCs

Geographical area: National

Reasons for participation: Upon invitation

City of event: Valencia, Valencian Community, Spain

Date of event: 05/07/2013

Organising entity: Universidad Politécnica de Valencia

Type of entity: University

City organizing entity: Valencia, Valencian Community, Spain

With external admission assessment committee: No

7 Title of the work: Difusión cultural

Name of the event: Talleres de Divulgación Científica - Año Internacional de la Química 2011

Type of event: Fairs and exhibitions

City of event: Madrid, Community of Madrid, Spain

Date of event: 11/2011

Organising entity: Universidad Complutense de Madrid

Type of entity: University

City organizing entity: Madrid, Community of Madrid, Spain

Jesús Prado Gonjal.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

1 Committee title: PhD viva committee Rocío Andujar

Affiliation entity: Universidad de Castilla-La Mancha **Type of entity:** University

Start-End date: 27/11/2020 - 27/11/2020

2 Committee title: PhD recognition committee Beatriz Molero Sánchez

Affiliation entity: Universidad Complutense de Madrid

Type of entity: University

End date: 23/10/2020

3 Committee title: Evaluation committee of the contest "Elige un elemento" for Secondary School students

Affiliation entity: Real Sociedad Española de Química

Type of entity: -

City affiliation entity: Madrid, Spain

End date: 01/2020

4 Committee title: Young Researcher Award 2017 - Sociedad Española de Cerámica y vidrio

City: Cuenca, Spain

City affiliation entity: Cuenca, Castile-La Mancha, Spain

Start-End date: 21/06/2017 - 23/06/2017

5 Committee title: Board member of RSEQ-STM

Affiliation entity: Real Sociedad Española de Química

Type of entity: -

Start date: 01/2020



- 6** **Committee title:** Spanish Royal Society of Chemistry -STM PhD Awards 2016-17, 2017-2018, 2018-2019
Affiliation entity: Real Sociedad Española de Química
City affiliation entity: Madrid, Spain
Type of entity: -

Organization of R&D activities

- 1** **Title of the activity:** MATERIALS FOR ENERGY AND SUSTAINABILITY
(<https://www.youtube.com/channel/UCmEEL0pd6sW2dLfDhVzjfHA>)
Type of activity: Workshop
Convening entity: Universidad Complutense de Madrid
City convening entity: Madrid, Spain
Type of participation: Organiser
Nº assistants: 300
Start-End date: 20/07/2021 - 21/07/2021
Duration: 2 days
- 2** **Title of the activity:** Member of the organising committee of the II Iberian Thermoelectric Workshop
Type of activity: International Conference
Convening entity: Universidad de Castilla-La Mancha
City convening entity: Ciudad Real, Castile-La Mancha, Spain
Start-End date: 05/09/2019 - 06/09/2019
- 3** **Title of the activity:** UKTEG Project Fifth Quarterly Review
Geographical area: National
City of event: Reading, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Convening entity: University of Reading
City convening entity: Reading, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Type of participation: Organiser
Nº assistants: 20
Start-End date: 12/11/2015 - 13/11/2015
- 4** **Title of the activity:** UKTEG Project Second Quarterly Review
Geographical area: National
City of event: Reading, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Convening entity: University of Reading
City convening entity: Reading, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Type of participation: Organiser
Nº assistants: 20
Start-End date: 16/10/2014 - 17/10/2014
- 5** **Title of the activity:** Chemistry Olympiad - Madrid Section
Type of activity: Olympiad
Convening entity: Real Sociedad Española de Química
City convening entity: Madrid, Spain
Start date: 03/2021
Type of entity: -



- 6** **Title of the activity:** Brain Wars: The future is in your hands
Type of activity: Research contest
Convening entity: Real Sociedad Española de Química **Type of entity:** -
City convening entity: Madrid, Community of Madrid, Spain
Type of participation: Organiser
Nº assistants: 100
Start date: 27/11/2020
- 7** **Title of the activity:** Chemistry Olympiad - Madrid Section
Type of activity: Olympiad
Convening entity: Real Sociedad Española de Química **Type of entity:** -
Start date: 03/2020
- 8** **Title of the activity:** Brain Wars: The future is in your hands
Type of activity: Research contest
Convening entity: Real Sociedad Española de Química **Type of entity:** -
City convening entity: Madrid, Community of Madrid, Spain
Type of participation: Organiser
Nº assistants: 100
Start date: 17/10/2019
- 9** **Title of the activity:** I finished my PhD...what's next?
Type of activity: Workshop
Convening entity: Universidad Complutense de Madrid **Type of entity:** University
Start date: 17/05/2019
- 10** **Title of the activity:** Brain Wars: The future is in your hands
Type of activity: Research contest
Convening entity: Real Sociedad Española de Química **Type of entity:** -
City convening entity: Madrid, Community of Madrid, Spain
Type of participation: Organiser
Nº assistants: 100
Start date: 16/10/2018
- 11** **Title of the activity:** Experimental techniques in chemistry
Type of activity: Workshop
Convening entity: Universidad Complutense de Madrid **Type of entity:** University
City convening entity: Madrid, Spain
Start date: 23/05/2018

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** ALBA cells synchrotron
City of entity: Barcelona, Spain
Start-End date: 26/11/2019 - 27/11/2019
Name of programme: Elucidating the electrochemical reactivity of $\text{Co}_{1-2x}\text{Fe}_x\text{Ni}_x\text{Sb}_3$ skutterudites with Na ion by synchrotron X-ray diffraction under operando conditions
Goals of the stay: Experiment
Provable tasks: Synchrotron X-ray diffraction
- 2** **Entity:** Institut Laue-Langevin
Faculty, institute or centre: D2B
City of entity: Grenoble, France
Start-End date: 04/10/2019 - 07/10/2019
Name of programme: Influence of oxygen defects and atomic displacement parameters in thermoelectric $\text{Ca}_{0.9}\text{Yb}_{0.1}\text{MnO}_{3-d}$ prepared by alternative synthesis methods
Goals of the stay: Experiment
Provable tasks: Neutron diffraction
- 3** **Entity:** Institut Laue-Langevin
Faculty, institute or centre: D2B
City of entity: Grenoble, France
Start-End date: 22/07/2019 - 24/07/2019
Name of programme: Neutron thermodiffraction study of the phase transition and role of oxygen defects in $\text{La}_{1-x}\text{Pr}_x\text{CoO}_{3-d}$
Goals of the stay: Experiment
Provable tasks: Neutron diffraction
- 4** **Entity:** Institut Laue-Langevin
Faculty, institute or centre: D2B
City of entity: Grenoble, France
Start-End date: 26/06/2019 - 27/06/2019
Name of programme: Study of the order-disorder of the oxygen vacancies, the thermal vibrations and oxygen contents in $\text{La}_{0.3}\text{Ca}_{0.7}\text{Cr}_{0.3}\text{Fe}_{0.7-x}\text{Ni}_x\text{O}_{3-d}$ ($x = 0, 0.1$)
Goals of the stay: Experiment
Provable tasks: Neutron diffraction
- 5** **Entity:** Institut Laue-Langevin
Faculty, institute or centre: D2B
City of entity: Grenoble, France
Start-End date: 24/06/2019 - 26/06/2019
Name of programme: Unveiling the origin of extra-low thermal conductivity in thermoelectric $\text{R}_{1-x}\text{Co}_4\text{Sb}_{12}$ skutterudites prepared under high pressures
Goals of the stay: Experiment
Provable tasks: Neutron diffraction

- 6** **Entity:** ALBA cells synchrotron
City of entity: Barcelona, Spain
Start-End date: 11/05/2019 - 12/05/2019
Name of programme: Unveiling the Correlation between the Crystalline Structure of M-Filled CoSb₃ (M = Y, K, Sr) Skutterudites and Their Thermoelectric Transport Properties
Goals of the stay: Experiment
Provable tasks: Synchrotron X-ray diffraction
- 7** **Entity:** ALBA cells synchrotron
City of entity: Barcelona, Spain
Start-End date: 03/05/2020 - 03/05/2019
Name of programme: Pair Distribution function study of Tin Chalcogenides
Goals of the stay: Experiment
Provable tasks: Synchrotron X-ray diffraction
- 8** **Entity:** University of Reading **Type of entity:** University
Faculty, institute or centre: Chemistry and Pharmacy
City of entity: Reading, Berkshire, Buckinghamshire and Oxfordshire, United Kingdom
Primary (UNESCO code): 230300 - Inorganic chemistry
Start-End date: 01/04/2014 - 31/12/2016 **Duration:** 2 years - 8 months - 29 days
Goals of the stay: Post-doctoral
- 9** **Entity:** ISIS Neutron and Muon Source
City of entity: Didcot, United Kingdom
Start-End date: 29/09/2016 - 30/09/2016
Name of programme: Light Atom Location in Filled Skutterudites
Goals of the stay: Experiment
Provable tasks: Neutron diffraction
- 10** **Entity:** ISIS Neutron and Muon Source
City of entity: Didcot, United Kingdom
Start-End date: 21/09/2016 - 24/09/2016
Name of programme: Probing the origin of low thermal conductivity in thermoelectric materials
Goals of the stay: Experiment
Provable tasks: Spectrometry - Study of phonon densities of states
- 11** **Entity:** ISIS Neutron and Muon Source
City of entity: Didcot, United Kingdom
Start-End date: 18/04/2016 - 22/04/2016
Name of programme: Effect of framework substitution on the thermal conductivity of skutterudites
Goals of the stay: Experiment
Provable tasks: Spectrometry - Study of phonon densities of states
- 12** **Entity:** ISIS Neutron and Muon Source
City of entity: Didcot, United Kingdom
Start-End date: 22/04/2015 - 24/04/2015
Name of programme: A pair distribution function study of the thermoelectric skutterudites Co_{1-2x}Fe_xNi_xSb₃
Goals of the stay: Experiment
Provable tasks: Neutron diffraction



- 13** **Entity:** European Synchrotron Radiation Facility
City of entity: Grenoble, France
Start-End date: 21/06/2014 - 24/06/2014
Name of programme: Synchrotron X-ray thermodiffraction study of Ba_{1.2}Mn₈O₁₆ hollandite
Goals of the stay: Experiment
Provable tasks: Synchrotron X-ray diffraction
- 14** **Entity:** European Synchrotron Radiation Facility
City of entity: Grenoble, France
Start-End date: 15/02/2014 - 18/02/2014
Name of programme: Synchrotron X-ray thermodiffraction of RE₂Ti₂O₇ (RE = Gd, Ho) pyrochlores: Anti-site disorder of Rare Earth and Ti cations and phase transition study
Goals of the stay: Experiment
Provable tasks: Synchrotron X-ray diffraction
- 15** **Entity:** European Synchrotron Radiation Facility
City of entity: Grenoble, France
Start-End date: 27/02/2013 - 01/03/2013
Name of programme: Structural and Spectroscopic study in New Vanadium Oxi-hidroxide
Goals of the stay: Experiment
Provable tasks: Synchrotron X-ray diffraction
- 16** **Entity:** Centre National de la Recherche Scientifique (CNRS)
City of entity: Caen, Basse-Normandie, France
Start-End date: 11/06/2012 - 01/10/2012 **Duration:** 3 months - 20 days
Goals of the stay: Doctorate
Provable tasks: Preparation and characterization of Ba_{1.2}Mn₈O₁₆ for thermoelectric applications

Obtained grants and scholarships

- 1** **Name of the grant:** Concesión de un Ayudante de Investigación (Comunidad de Madrid- Programa Operativo de Empleo Juvenil) PEJ-2020-AI/IND-17706
Awarding entity: Comunidad de Madrid **Type of entity:** -
Conferral date: 01/04/2021 **Duration:** 2 years
End date: 31/03/2023
- 2** **Name of the grant:** "Juan de la Cierva - formación" fellowship
Aims: Post-doctoral
Awarding entity: Ministerio de Economía y Hacienda **Type of entity:** .
Conferral date: 01/02/2017 **Duration:** 2 years
End date: 31/01/2019
- 3** **Name of the grant:** Becario predoctoral Universidad Complutense de Madrid - UCM - (PhD scholarship)
Aims: Pre-doctoral
Awarding entity: Universidad Complutense de Madrid **Type of entity:** University
Conferral date: 01/04/2011 **Duration:** 4 years
End date: 01/04/2015
Entity where activity was carried out: Universidad Complutense de Madrid
Faculty, institute or centre: Departamento de Química Inorgánica I (UCM)



- 4** **Name of the grant:** Becario de colaboración (Research Scholarship)
Aims: -
Awarding entity: MINISTERIO DE EDUCACION Y CIENCIA
Conferral date: 01/10/2009 **Duration:** 9 months
End date: 01/07/2010
Entity where activity was carried out: Universidad Complutense de Madrid
Faculty, institute or centre: Departamento de Química Inorgánica I (UCM)
- 5** **Name of the grant:** Becario General del Estado (Scholarship holder)
Aims: Estudios de Licenciatura
Awarding entity: MINISTERIO DE EDUCACION Y CIENCIA
Conferral date: 01/10/2003 **Duration:** 6 years
End date: 01/10/2009
- 6** **Name of the grant:** Cursos de Idiomas en el Extranjero
Aims: Idiomas
Awarding entity: MINISTERIO DE EDUCACION Y CIENCIA
Conferral date: 28/09/2008 **Duration:** 21 days
End date: 19/10/2008
- 7** **Name of the grant:** Atracción de talento
Aims: Post-doctoral
Awarding entity: Comunidad de Madrid **Type of entity:** -
Conferral date: 2018 **Duration:** 4 years
Entity where activity was carried out: Universidad Complutense de Madrid
Faculty, institute or centre: Departamento de Química Inorgánica I (UCM)
- 8** **Name of the grant:** H2020-MSCA-IF-2017
Aims: Post-doctoral
Awarding entity: European Union
Conferral date: 2018 **Duration:** 2 years

Scientific societies and professional associations

- 1** **Name of the society:** Grupo de Estado Sólido - RSEQ membership
Affiliation entity: Real Sociedad Española de Química **Type of entity:** -
City affiliation entity: Madrid, Community of Madrid, Spain
Start date: 07/05/2009
- 2** **Name of the society:** Grupo de Jóvenes Químicos - RSEQ membership
Affiliation entity: Real Sociedad Española de Química **Type of entity:** -
City affiliation entity: Madrid, Community of Madrid, Spain
Start date: 07/05/2009
- 3** **Name of the society:** Membership (nº 4213)
Affiliation entity: Real Sociedad Española de Química **Type of entity:** -



City affiliation entity: Madrid, Community of Madrid, Spain

Start date: 07/05/2009

- 4 Name of the society:** RSEQ - Territorial Section of Madrid
Affiliation entity: Real Sociedad Española de Química **Type of entity:** -
City affiliation entity: Madrid, Community of Madrid, Spain
Professional category: Member of the Commission (vocal) since 2020
Nº of members: 11
Start date: 07/05/2009

Prizes, mentions and distinctions

- 1 Description:** PhD award 2014 (Premio Extraordinario de Doctorado)
Awarding entity: Universidad Complutense de Madrid **Type of entity:** University
City awarding entity: Madrid, Community of Madrid, Spain
Conferral date: 22/10/2015
- 2 Description:** Best poster award - Zing Conferences (Solid State) 2012
Awarding entity: Zing Conferences
City awarding entity: Lanzarote, Community of Madrid, Spain
Conferral date: 27/02/2012
- 3 Description:** Young Researcher Award 2011
Awarding entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
City awarding entity: Madrid, Community of Madrid, Spain
Conferral date: 15/06/2011

Obtained accreditations/recognitions

- 1 Description:** DOCENTIA: Evaluación muy positiva
Accrediting entity: Universidad Complutense de Madrid **Type of entity:** University
Date of recognition: 2023
- 2 Description:** DOCENTIA: Evaluación muy positiva
Accrediting entity: Universidad Complutense de Madrid **Type of entity:** University
Date of recognition: 2022
- 3 Description:** DOCENTIA: Evaluación muy positiva
Accrediting entity: Universidad Complutense de Madrid **Type of entity:** University
Date of recognition: 2021
- 4 Description:** DOCENTIA: Evaluación Excelente
Accrediting entity: Universidad Complutense de Madrid **Type of entity:** University



Date of recognition: 2020

- 5** **Description:** DOCENTIA: Evaluación muy positiva
Accrediting entity: Universidad Complutense de Madrid **Type of entity:** University
Date of recognition: 2019
- 6** **Description:** Acreditación Profesor Ayudante Doctor
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** -
Date of recognition: 09/2017
- 7** **Description:** Acreditación Profesor Contratado Doctor
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** -
Date of recognition: 09/2017
- 8** **Description:** Acreditación Profesor Universidad Privada
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** -
Date of recognition: 09/2017