



LEIRE GARTZIA RIVERO

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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.

Diplomas – Qualifications – Professional Experience

Competences / Research: Nano-objects and Organic Nanomaterials, Nanostructures and nanoparticles (zeolites, latex nanoparticles), Supramolecular Chemistry, Photonics and Opto-electronics, Photochemistry and Photophysics, Nano-Photochemistry, MicroSpectroscopy and Fluorescence Nano-Imaging

Languages: Basque and Spanish (proficient), English (advance), French

Habilitation for Doctor Assistant Professor, 2015: Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA).

Ph.D. in Materials Science & Technology, 2014: University of the Basque Country (UPV/EHU), Spain. International mention; Grade: cum Laude

Master in New Materials, 2010: University of the Basque Country (UPV/EHU), Spain.

B.S. in Chemistry, 2009: University of the Basque Country (UPV/EHU), Spain.

2018- Assistant Professor, Department of Physical Chemistry, University of the Basque Country (UPV/EHU).

2016-2018 Postdoctoral Research Associate (Basque Government fellowship), Institute des Sciences Moléculaires – ISM, Université de Bordeaux, France

2015-2016 Postdoctoral Research Associate, University of the Basque Country (UPV/EHU), Faculty of Science and Technology, Bilbao, Spain

2013 Pre-doctoral stay (3 months), University of Fribourg, Department of Chemistry, Fribourg, Switzerland.

2011-2014 Ph.D. (Basque Government fellow) in Materials Science & Technology, Molecular Antennas and Photoactive Nanomaterials based on Energy Transfer Processes, I. López-Arbeloa & J. Bañuelos, University of the Basque Country.

2009-2010 Research personnel, I+D+i contract, University of the Basque Country, Faculty of Science & Technology, Bilbao, Spain

Summary

- Extraordinary Doctorate Award (Basque Country University, 2014-15); Area of knowledge: Science
- Postdoctoral Fellowship from the Basque Government (2016-2018).
- Stays: Pre-doctoral (University of Fribourg-2013, 3 months) and Post-doctoral (University of Bordeaux-2016, 2 years)

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CURRÍCULUM VITAE NORMALIZADO

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- 24 publications: 17 in international pre-reviewed journals (19 articles-17Q1+1Q2 and 1 review-Q1), 3 book chapters and 2 in dissemination journal; H-index: 10; Average impact factor: 5.0
- 23 conferences in materials science and photochemistry (9 oral presentations): 17 international, 2 national and 4 regional.
- 10 research projects: 3 international, 2 national and 5 regional.
- Teaching experience ≥ 390 hours in experimental subjects of Physical Chemistry and basic Chemistry taught in the following degrees: Chemistry, Chemical Engineering, Geology, Biology, Biotechnology, Biochemistry and Physics.
- Supervisor of 3 undergraduate students, 3 Masters, and co-supervisor of 3 PhDs.



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.

Publications: 20 in pre-reviewed journals, 3 book chapters and 2 in dissemination journal (26 in total 13 as first author).

Total publications in the 1st quartil (Q1): 19 + 1 in Q2

Average of cites per item: 13,35; H-index: 10

Average impact factor: 5.0

Total attended conferences: 23 (17 international, 2 national, and 4 regional), 9 oral contributions.

Research projects: 10 (4 international and 7 national)

Reviewer of international journals: Chemical Communications, RSC Advances, Journal of Luminescence, Journal of Photochemistry and Photobiology A: Chemistry

Supervision of students: 3 undergraduate, 3 master and 3 PhD students.

**LEIRE GARTZIA RIVERO**

Surname(s): **GARTZIA RIVERO**
 Name: **LEIRE**
 DNI: **78937265T**
 ScopusID: **0000-0002-2240-4538**
 ResearcherID: **F-8518-2015**
 Date of birth: **28/06/1986**
 Gender: **Female**
 Nationality: **Spain**
 Country of birth: **Spain**
 Aut. region/reg. of birth: **Basque Country**
 Contact province: **Biscay**
 City of birth: **GERNIKA-LUMO**
 Contact address: **LURGORRI KALEA 38-F 4D**
 Postcode: **48300**
 Contact country: **Spain**
 Contact aut. region/reg.: **Basque Country**
 Contact city: **GERNIKA-LUMO**
 Land line phone: **(+34) 946015384**
 Email: **leire.gartzia@ehu.eus**
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Current professional situation

Employing entity: Universidad del País Vasco **Type of entity:** University

Department: Química-Física, Facultad de Ciencia y Tecnología

Professional category: Assistant Professor

Start date: 18/09/2018

Type of contract: Temporary

Primary (UNESCO code): 230700 - Physical chemistry

Employing entity: Universidad del País Vasco

Department: Nanostructures Organiques (NEO) Group, Institut des Sciences Moléculaires (CNRS/Université de Bordeaux)

Professional category: Postdoctoral Research Associate

Start date: 28/01/2016

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

Primary (UNESCO code): 221009 - Energy transfer; 221020 - Molecular spectroscopy; 221022 - Photochemistry; 230700 - Physical chemistry; 331208 - Material properties

Performed tasks: Elaboration of cutting-edge strategies for the self-assembly of [n]-acene based molecules, using in particular photochemical manipulation at the nanoscale and realtime imaging and characterization of the events by state-of-the-art microscopy. Expertise in the development and advanced characterization of a variety of nanostructures, such as organogels, nano-fibers, -ribbons, -crystals and composite materials by the design of self-assembling acene derivatives has been acquired. In particular, using microscopy, the spectroscopic and photophysical characterization at the nanoscale of the emission and energy transfer processes lead to the discovery of linearly polarized emission, efficient energy transfer and triplet fusion processes. A recent breakthrough in this research

field has been obtained by the development of a new photo-synthetic approach based on light-triggered self-assembly (manuscript in preparation), which provides several advantages, such as contactless, as well as accurate spatial and temporal control. Thereby, a controlled design of supramolecular structures patterned on a transparent surface can now be achieved. This paves the way to completely new strategies of research in the field of optically active nanostructures.

Identify key words: Nanostructures; Photochemistry; Structural and spectroscopy; Autoassembly; Fluorescence induced by laser; Chemical reactions induced by laser; Photochemistry; Spectroscopy; Materials

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad del País Vasco	Postdoctoral Research Associate	22/01/2015
2	Universidad del País Vasco	Predoctoral researcher (Basque Government)	01/01/2011
3	Universidad del País Vasco	Research personnel	01/03/2010

- 1** **Employing entity:** Universidad del País Vasco **Type of entity:** University
Department: Physical Chemistry, Faculty of Science and Technology
Professional category: Postdoctoral Research Associate
Start-End date: 22/01/2015 - 22/10/2015 **Duration:** 9 months
Type of contract: Temporary employment contract
Primary (UNESCO code): 221020 - Molecular spectroscopy; 221022 - Photochemistry; 230700 - Physical chemistry; 331208 - Material properties
Identify key words: Nanostructures; Physical-chemistry organic; Autoassembly; Fluorescence induced by laser; Fluorescence
Field of management activity: University
- 2** **Employing entity:** Universidad del País Vasco **Type of entity:** University
Department: Physical Chemistry, Faculty of Science and Technology
Professional category: Predoctoral researcher (Basque Government)
Start-End date: 01/01/2011 - 31/12/2014 **Duration:** 4 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 221009 - Energy transfer; 221020 - Molecular spectroscopy; 221022 - Photochemistry; 230700 - Physical chemistry; 331208 - Material properties
Identify key words: Physical-chemistry organic; Fluorescence induced by laser; Chemical physics of materials; Solar energy; Fluorescence; Porous materials and zeolites; Nanomaterials
Field of management activity: Spanish Autonomous Region
- 3** **Employing entity:** Universidad del País Vasco **Type of entity:** University
Department: Physical Chemistry, Faculty of Science and Technology
Professional category: Research personnel
Start-End date: 01/03/2010 - 31/12/2010 **Duration:** 10 months
Type of contract: Temporary employment contract
Primary (UNESCO code): 221009 - Energy transfer; 221020 - Molecular spectroscopy; 230300 - Inorganic chemistry; 230700 - Physical chemistry; 331208 - Material properties
Identify key words: Fluorescence induced by laser; Fluorescence; Nanostructures; Porous materials and zeolites; Nanomaterials
Field of management activity: University



Education

University education

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

University degree: Higher degree

Name of qualification: Graduated in Chemistry

City degree awarding entity: Basque Country, Spain

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

Date of qualification: 28/09/2009

Average mark: Good

Standardised degree: Yes

Date of homologation: 04/11/2005

Doctorates

Doctorate programme: Ciencia y Tecnología de los Materiales (Science and Technology of Materials)

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

Date of degree: 11/12/2014

European doctorate: Yes

Date of certificate: 11/12/2014

Thesis title: Molecular Antennas and Photoactive Nanomaterials based on Energy Transfer Processes

Thesis director: I. López Arbeloa

Obtained qualification: Sobresaliente Cum Laude

Recognition of quality: Yes

Special doctorate award: Yes

Date of award: 08/06/2017

Standardised degree: Yes

Date of standardisation: 11/02/2011

Other postgraduate university studies

1 **Type of education:** Masters

Postgraduate qualification: Official Master in "Formación del Profesorado de Educación Secundaria Obligatoria y Bachillerato, Formación Profesional y Enseñanza de Idiomas (Especialidad: Física y Química)"

City degree awarding entity: Burgos, Castile and León, Spain

Degree awarding entity: Universidad Internacional **Type of entity:** University
Isabel I de Castilla

Date of qualification: 13/07/2016

Obtained qualification: Notable

2 **Type of education:** Masters

Postgraduate qualification: Official Master in "Nuevos Materiales" (New Materials)

City degree awarding entity: Basque Country, Spain

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

Faculty, institute or centre: Facultad de Ciencia y Tecnología

Date of qualification: 19/01/2011

Obtained qualification: 8.56



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

- 1 Title of course/seminar:** Taller Eginklik: Metodologías Activas con la Ayuda de las TIC Activas
Goals of the course/seminar: Training in Active Methodologies
Organising entity: Universidad del País Vasco **Type of entity:** University
Duration in hours: 25 hours
Start-End date: 02/2018 - 04/2018
- 2 Title of course/seminar:** "¿Cómo publicar la innovación? Orientaciones prácticas en el ámbito de la investigación en la docencia universitaria.
Goals of the course/seminar: Formación en innovación docente
Organising entity: SAE/HELAZ dentro del Programa de Formación Docente del Profesorado Universitario **Type of entity:** University
Duration in hours: 8 hours
Start-End date: 15/10/2015 - 15/10/2015
- 3 Title of course/seminar:** Introducción a Refworks, programa de gestión de referencias
Organising entity: Universidad del País Vasco **Type of entity:** University
Faculty, institute or centre: Biblioteca, UPV/EHU
Duration in hours: 3 hours
Start-End date: 09/11/2010 - 09/11/2010
- 4 Title of course/seminar:** ISO 9001:2008
Goals of the course/seminar: Sistemas de gestión de calidad
Organising entity: Fundación Novia Salcedo y Diputación Foral de Bizkaia **Type of entity:** Foundation
Duration in hours: 25 hours
Start-End date: 21/09/2009 - 25/09/2009

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French	B1	B2	B1	B1	B1
English	C1	C1	C1	C1	C1
Basque	C2	C2	C2	C2	C2

Teaching experience



General teaching experience

- 1** **Name of the course:** Termodinámica y Cinética Química
Type of programme: Bachelor's degree **Type of teaching:** In person theory
Type of subject: Core
University degree: Grado en Biología, Bioquímica y Biotecnología
Start date: 09/2018 **End date:** 01/2019
End date: 01/2019 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 5,4
Entity: Universidad del País Vasco (UPV/EHU) **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencia y Tecnología
Department: Physical Chemistry
Subject language: Spanish
- 2** **Type of teaching:** Official teaching
Name of the course: Environmental Chemistry (Ingurumenaren Kimika)
Type of programme: Bachelor's degree **Type of teaching:** In person theory
Type of subject: Optional
University degree: Grado en Química
Course given: 3
Start date: 09/2018 **End date:** 21/12/2018
End date: 01/2019 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 6
Entity: Universidad del País Vasco (UPV/EHU)
Department: Physical Chemistry
Subject language: Basque
- 3** **Type of teaching:** Official teaching
Name of the course: Química Física II
Type of programme: Diploma **Type of teaching:** Laboratory work
Type of subject: Obligatory
University degree: Grado en Química
Course given: 3
Start date: 15/09/2017 **End date:** 10/06/2018
End date: 06/2018 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 4
Entity: Universidad del País Vasco **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencia y Tecnología
Department: Physical Chemistry
City of entity: Basque Country, Spain
Subject language: Basque
- 4** **Type of teaching:** Official teaching
Name of the course: Química II (Kimika II)
Type of programme: Bachelor's degree **Type of teaching:** Theory, practical work and lab work
Type of subject: Core
University degree: Grado en Geología
Course given: 1
Start date: 01/2019



End date: 07/2019 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 4,41
Entity: Universidad del País Vasco **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencia y Tecnología
Department: Physical Chemistry
Subject language: Basque

5 **Type of teaching:** Official teaching
Name of the course: Química General II (Kimika Orokorra II)
Type of programme: Engineering **Type of teaching:** In person theory
Type of subject: Core
University degree: Grado en Ingeniería Química
Course given: 1
Start date: 01/2019
End date: 06/2019 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 4,01
Entity: Universidad del País Vasco **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencia y Tecnología
Department: Physical Chemistry
Subject language: Basque

6 **Name of the course:** Termodinamika eta Zinetika Kimikoa
Type of programme: Bachelor's degree **Type of teaching:** Laboratory work
Type of subject: Core
University degree: Grado en Biología, Bioquímica y Biotecnología
Start date: 09/2018
End date: 01/2019 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 1,2
Entity: Universidad del País Vasco **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencia y Tecnología
Department: Physical Chemistry
Subject language: Basque

7 **Name of the course:** Experimentación en Química-Física
Professional category: Investigadora Doctora
Type of teaching: Teoría y Prácticas de Laboratorio
Type of subject: Obligatory
Assessment type: Survey
University degree: Grado en Química
Course given: 2
End date: 01/2016 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 2
Entity: Universidad del País Vasco **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencia y Tecnología
Department: Química-Física
Assessment entity: Universidad del País Vasco **Type of entity:** University
Assessment type: Survey
Funding entity: Universidad del País Vasco **Type of entity:** University
Mark obtained: 3.9 **Top mark possible:** 5
Subject language: Spanish



- 8** **Name of the course:** Experimentación en Química-Física
Professional category: Investigadora Doctora
Type of teaching: Laboratory work
Type of subject: Obligatory
University degree: Grado en Química
Course given: 2
End date: 06/2015 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 2
Entity: Universidad del País Vasco **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencia y Tecnología
Department: Química-Física
Subject language: Basque
- 9** **Name of the course:** Química-Física II
Professional category: Investigadora Doctora
Type of teaching: Laboratory work
Type of subject: Obligatory
University degree: Grado en Química
Course given: 3
End date: 06/2015 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 1
Entity: Universidad del País Vasco **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencia y Tecnología
Department: Química-Física
Subject language: Basque
- 10** **Name of the course:** Química-Física II
Professional category: Investigadora Predoctoral
Type of programme: Grado **Type of teaching:** Laboratory work
Type of subject: Obligatory
University degree: Grado en Química
Course given: 3
End date: 06/2014 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 2
Entity: Universidad del País Vasco **Type of entity:** University
Department: Química-Física
Subject language: Basque
- 11** **Name of the course:** Experimentación en Química-Física
Type of programme: Grado **Type of teaching:** Laboratory work
Type of subject: Obligatory
University degree: Grado en Química
Course given: 2
End date: 12/2013 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 2
Entity: Universidad del País Vasco **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencia y Tecnología
Department: Química-Física
Subject language: Basque



- 12** **Type of teaching:** Official teaching
Name of the course: Experimentación en Química Física
Professional category: Investigadora Predoctoral
Type of programme: Bachelor's degree **Type of teaching:** Laboratory work
Type of subject: Obligatory
University degree: Licenciatura en Química **Type of hours/ ECTS credits:** Credits
End date: 09/2012
Hours/ECTS credits: 15
Entity: Universidad del País Vasco **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencia y Tecnología
Department: Química Física
City of entity: Spain
- 13** **Type of teaching:** Official teaching
Name of the course: Química II
Type of programme: Grado **Type of teaching:** Laboratory work
University degree: Grado en Geología **Type of hours/ ECTS credits:** Hours
End date: 09/2012
Hours/ECTS credits: 15
Entity: Universidad del País Vasco **Type of entity:** University
Department: Química Física
Subject language: Basque
- 14** **Name of the course:** Introducción a la Experimentación en Química Física
Professional category: Investigadora Predoctoral
Type of programme: Bachelor's degree **Type of teaching:** Laboratory work
Type of subject: Obligatory
University degree: Licenciado en Química
Course given: 3
End date: 09/2012 **Type of hours/ ECTS credits:** Hours
Hours/ECTS credits: 25
Entity: Universidad del País Vasco **Type of entity:** University
Department: Química Física
Subject language: Basque

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Koloratzaile organikoz dopaturiko L zeolita antena material luminiscente gisa
Type of project: End of course project
Co-director of thesis: J. Bañuelos; L.Gartzia-Rivero
Entity: Universidad del País Vasco **Type of entity:** University
City of entity: Basque Country, Spain
Student: David Martínez Muñoz
Obtained qualification: 9,3
Date of reading: 12/07/2018
- 2** **Project title:** Synthèse d'un colorant fluorescent pour une utilisation en microscopie super résolue
Type of project: End of course project
Co-director of thesis: L.Gartzia-Rivero; A. Del Guerso
Type of entity: Centro mixto



Entity: Institut des Sciences Moléculaires (ISM)-Université de Bordeaux et CNRS
City of entity: Aquitaine, France
Student: Christopher Magras
Identify key words: Synthetic organic chemistry; Fluorescence
Date of reading: 13/06/2017
Quality recognition: Yes

Scientific and technological experience

Research and development groups/teams

- 1 Name of the group:** Organic Nanostructures
Aims of the group: Design and characterization of organic nanostructures
Name of principal investigator: D. Bassani
Standardised code: NEO
Type of collaboration: Co-authorship of international collaboration

City of group: Bordeaux, Aquitaine, France
Affiliation entity: Institut des Sciences Moléculaires (ISM)-Université de Bordeaux / CNRS
Type of entity: University Research Institute
Start date: 2016
- 2 Name of the group:** International Associated Laboratory- France/Japan on Chiral Nanomaterials for Photonic Applications
Aims of the group: Promote the collaborations between partner laboratories (9 French groups, 7 Japanese groups)
Name of principal investigator: R. Oda
Standardised code: LIA-CNPA
Type of collaboration: Collaboration in training third parties

City of group: Bourdeaux/Tokyo, France
Affiliation entity: University of Bordeaux / University of Kumamoto / University of Kyoto
Type of entity: University Research Institute
Start date: 2015
Duration: 5 years
- 3 Name of the group:** Química orgánica supramolecular y estereoselectiva
Aims of the group: Synthesis of multifunctional supramolecular compounds
Name of principal investigator: S. de la Moya
Type of collaboration: Co-authorship of publications
City of group: Madrid, Community of Madrid, Spain
Affiliation entity: Complutense University of Madrid
Type of entity: University
Start date: 2013
- 4 Name of the group:** State key laboratory of Fine Chemicals
Name of principal investigator: Y. Xiao
Type of collaboration: Co-authorship of publications
City of group: Dalian, China
Affiliation entity: Dalian University of Technology
Type of entity: University
Start date: 2012



- 5 Name of the group:** Grupo de Materiales Láser e Interacción láser-materiales
Aims of the group: Design and characterization of new optoelectronic materials: laser, micro-lasers, photonic coatings and colloidal suspensions.
Name of principal investigator: I. García-Moreno
Standardised code: MLILM **Type of collaboration:** Co-authorship of projects and their development
City of group: Madrid, Community of Madrid, Spain
Affiliation entity: Instituto de Química-Física Rocasolano **Type of entity:** Public Research Body (IQFR)-CSIC
Identify key words: Physics chemical and mathematical
Start date: 01/01/2011 **Duration:** 7 years
- 6 Name of the group:** Photochemistry Applications in Organic Synthesis
Aims of the group: Design of Dipyrromethene Fluorescent Dyes with Applications in Biotechnology
Name of principal investigator: M. J. Ortiz
Type of collaboration: Co-authorship of projects and their development
City of group: Madrid, Community of Madrid, Spain
Affiliation entity: Complutense University of Madrid **Type of entity:** University (UCM)
Start date: 2011 **Duration:** 7 years

Scientific or technological activities

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

- 1 Name of the project:** Sistemas Multifuncionales Híbridos para Aplicaciones Fotónicas, Teragnosis y Energía: Síntesis, Caracterización y Simulación Atomística
Type of project: Research and development, including transfer **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: University of the Basque Country (UPV/EHU) **Type of entity:** University
City of entity: Bilbao, Basque Country, Spain
Name principal investigator (PI, Co-PI....): I. López Arbeloa
N° of researchers: 12
Funding entity or bodies: Basque Government **Type of entity:** State agency
City funding entity: Basque Country, Spain
Type of participation: Team member
Name of the programme: GRUPOS CONSOLIDADOS DEL GOBIERNO VASCO
Code according to the funding entity: IT912-16
Start-End date: 01/01/2016 - 31/12/2021
Total amount: 270.000 €
- 2 Name of the project:** Síntesis de nanotransportadores y caracterización foto-física asistida computacionalmente de colorantes y materiales multifuncionales para aplicaciones fotónicas
Type of project: Research and development, including transfer **Geographical area:** National
Degree of contribution: Researcher
Type of entity: University



Entity where project took place: University of the Basque Country (UVP/EHU); Universidad Complutense de Madrid (UCM); CSIC

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

Type of participation: Team member

Name of the programme: MINECO

Code according to the funding entity: MINECOG17/P12

Start-End date: 01/01/2018 - 31/12/2020

Total amount: 108.900 €

Dedication regime: Part time

3 Name of the project: Photonics in Aquitaine (LAPHIA)

Entity where project took place: Université de Bordeaux / CNRS

City of entity: Bordeaux, Aquitaine, France

Name principal investigator (PI, Co-PI....): André Del Guerzo

Funding entity or bodies:

French National and Regional Public funding

Type of entity: State agency

Start-End date: 2013 - 2018

4 Name of the project: Espectrofotómetro Infrarrojo medio y lejano de Transformada de Fourier

Type of project: Research and development, including transfer

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: University of the Basque Country (UPV/EHU)

City of entity: Basque Country, Spain

Name principal investigator (PI, Co-PI....): I. López Arbeloa

N° of researchers: 12

Type of participation: Team member

Name of the programme: Infraestructura

Code according to the funding entity: INF17/52

Start-End date: 01/01/2017 - 31/12/2017

Total amount: 46.776 €

5 Name of the project: Soft Materials Advanced Training Network (SMARTNET)

Type of project: Research and development, including transfer

Degree of contribution: Researcher

Entity where project took place: Institut des Sciences Moléculaires (University of Bordeaux)/ Delf University of Technology

Name principal investigator (PI, Co-PI....): Jan H. van Esch; André Del Guerzo

Funding entity or bodies:

European Commission

Type of entity: State agency

Type of participation: Colaboración

Name of the programme: SMARTNET

Code according to the funding entity: FP7-MSCA-INT2012

Start-End date: 01/11/2012 - 31/10/2016

6 Name of the project: Fotofísica de Materiales Híbridos con Propiedades Foelectrónicas

Entity where project took place: University of the Basque Country (UPV/EHU) **Type of entity:** University

City of entity: Bilbao, Basque Country, Spain



Name principal investigator (PI, Co-PI....): I. López Arbeloa

Nº of researchers: 8

Funding entity or bodies:

University of the Basque Country (UPV/EHU)

City funding entity: Basque Country, Spain

Start-End date: 16/04/2012 - 15/04/2016

Total amount: 31.542,02 €

7 Name of the project: Supra-molecular Approach to Composite Materials for Advanced Technologies (Code: 4805-2)

Type of project: Research and development, including transfer

Geographical area: Non EU International

Degree of contribution: Researcher

Entity where project took place: Institut des Sciences Moléculaires (Université de Bordeaux) / Indian Institute of Science, Bangalore

Type of entity: University Research Institute

Name principal investigator (PI, Co-PI....): Uday Maitra; André Del Guerzo

Funding entity or bodies:

CEFIPRA (Indo-French Centre for the Promotion of Advanced Research)

Type of participation: Colaboradora

Name of the programme: CEFIPRA

Code according to the funding entity: 4805-2

Start-End date: 2013 - 2016

8 Name of the project: Caracterización fotofísica y mecanocuántica de nuevos colorantes láser bodipys en la región azul y roja del visible (IT339-10)

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: University of the Basque Country (UPV/EHU)

Type of entity: University

City of entity: Bilbao, Basque Country, Spain

Name principal investigator (PI, Co-PI....): I. López Arbeloa

Nº of researchers: 10

Funding entity or bodies:

Consejería de Industria e Innovación, Basque Government (GIC10/109)

Type of entity: State agency

City funding entity: Basque Country, Spain

Type of participation: Team member

Name of the programme: GRUPOS CONSOLIDADOS

Code according to the funding entity: IT339-10

Start-End date: 01/01/2010 - 31/12/2015

Total amount: 426.000 €

9 Name of the project: MANATEC Materiales Nanoestructurados de Interés Tecnológico y Biomédico

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: University of the Basque Country (UPV/EHU)

City of entity: Bilbao, Basque Country, Spain

Name principal investigator (PI, Co-PI....): L. M. Lezama Diago

Nº of researchers: 46

**Funding entity or bodies:**

University of the Basque Country (UPV/EHU)

Type of entity: University**Type of participation:** Team member**Name of the programme:** UNIDADES DE FORMACIÓN E INVESTIGACIÓN UPV/EHU**Code according to the funding entity:** UF111/15**Start-End date:** 01/11/2011 - 31/12/2014**Total amount:** 54.287,91 €

- 10** **Name of the project:** Caracterización fotofísica y modelización cuántica de colorantes láser en medio homogéneos, materiales nanométricos y encapsulados en nanocanales

Type of project: Research and development, including transfer**Geographical area:** National**Degree of contribution:** Researcher**Entity where project took place:** University of the Basque Country / CSIC (Rocasolano Institute) / Universidad Complutense de Madrid (UCM)**Type of entity:** University Research Institute**Name principal investigator (PI, Co-PI....):** I. López Arbeloa**Nº of researchers:** 30**Funding entity or bodies:**

Ministry of Education and Science

Type of entity: Public Research Body**City funding entity:** Spain**Type of participation:** Team member**Name of the programme:** MICINN**Code according to the funding entity:** MAT2010-20646-C04-04**Start-End date:** 01/01/2011 - 30/06/2014**Total amount:** 145.200 €

- 11** **Name of the project:** Tecnologías y materiales Avanzados para Nuevas Formas de Generación y Almacenamiento de Energía

Type of project: Research and development, including transfer**Geographical area:** Regional**Entity where project took place:** University of the Basque Country (UPV/EHU)**Type of entity:** University**City of entity:** Bilbao, Basque Country, Spain**Name principal investigator (PI, Co-PI....):** I. López Arbeloa**Nº of researchers:** 4**Funding entity or bodies:**

Consejería de Industria e Innovación (G. Vasco)

Type of entity: State agency**City funding entity:** Basque Country, Spain**Type of participation:** Team member**Name of the programme:** SAIOTEK**Code according to the funding entity:** SA-2010/00096**Start-End date:** 01/01/2010 - 31/12/2011**Total amount:** 24.364,65 €**Dedication regime:** Full time

Scientific and technological activities

Scientific production

H index: 10

Date of application: 03/04/2019

Publications, scientific and technical documents

1 Leire Gartzia-Rivero; César Ray Leiva; Esther M. Sánchez-Carnerero; Jorge Bañuelos; Florencio Moreno; Beatriz L. Maroto; Inmaculada García-Moreno; Lourdes Infantes; Bianchi Mendez; Iñigo López-Arbeloa; Santiago de la Moya. Chiral Microneedles from an Achiral Bis(boron dipyromethene): Spontaneous Mirror Symmetry Breaking Leading to a Promising Photoluminescent Organic Material. *Langmuir*. 0 - 0, pp. null - null. 20/03/2019. Available on-line at: <<https://doi.org/10.1021/acs.langmuir.9b00409>>.

Type of production: Scientific paper

Format: Journal

2 Tailoring the molecular skeleton of aza-BODIPYs to design photostable red-emitting laser dyes. *ChemPhotoChem*. 05/02/2019. Available on-line at: <<https://doi.org/10.1002/cptc.201900025>>.

Type of production: Scientific paper

Format: Journal

3 K. Bizkarra; V.L. Barrio; L. Gartzia-Rivero; J. Bañuelos; I. López-Arbeloa; J.F. Cambra. Hydrogen production from a model bio-oil/bio-glycerol mixture through steam reforming using Zeolite L supported catalysts. *International Journal of Hydrogen Energy*. 44 - 3, pp. 1492 - 1504. 2019. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0360319918336619>>. ISSN 0360-3199

Type of production: Scientific paper

Format: Journal

4 Arkajyoti Chakrabarty; Guillaume Raffy; Mitasree Maity; Leire Gartzia-Rivero; Samuel Marre; Cyril Aymonier; Uday Maitra; André Del Guerzo. Nanofiber-Directed Anisotropic Self-Assembly of CdSe–CdS Quantum Rods for Linearly Polarized Light Emission Evidenced by Quantum Rod Orientation Microscopy. *Small*. 14 - 37, pp. 1802311 - 1802311. 15/08/2018. Available on-line at: <<https://onlinelibrary.wiley.com/doi/abs/10.1002/smll.201802311>>.

Type of production: Scientific paper

Format: Journal

Position of signature: 4

Total no. authors: 8

Impact source: ISI

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Impact index in year of publication: 9.598

Journal in the top 25%: Yes

Position of publication: 17

No. of journals in the cat.: 171

5 Leire Gartzia Rivero; Esther M. Sanchez Carnerero; Josue Jimenez; Jorge Banuelos; Florencio Moreno; Beatriz L. Maroto; Inigo Lopez Arbeloa; Santiago de la Moya. Modulation of ICT probability in bi(polyarene)-based O-BODIPYs: towards the development of low-cost bright arene-BODIPY dyads. *DALTON TRANSACTIONS*. 46 - 35, pp. 11830 - 11839. 21/09/2017. ISSN 1477-9226

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: 8

Impact source: ISI

Category: Science Edition - CHEMISTRY, APPLIED



Impact index in year of publication: 4.029
Position of publication: 26

Journal in the top 25%: Yes
No. of journals in the cat.: 522

- 6** Leire Gartzia Rivero; Jorge Banuelos; Inigo Lopez Arbeloa. Photoactive Nanomaterials Inspired by Nature: LTL Zeolite Doped with Laser Dyes as Artificial Light Harvesting Systems. MATERIALS. 10 - 5, 05/2017. ISSN 1996-1944

Type of production: Scientific paper
Position of signature: 1

Format: Journal

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

Total no. authors: 3

Impact source: ISI

Impact index in year of publication: 2.654

Position of publication: 66

Category: Materials Chemistry

Journal in the top 25%: Yes

No. of journals in the cat.: 350

- 7** Gonzalo Duran Sampedro; Antonia R. Agarrabeitia; Inmaculada Garcia Moreno; Leire Gartzia Rivero; Santiago de la Moya; Jorge Banuelos; Inigo Lopez Arbeloa; Maria J. Ortiz. An asymmetric BODIPY triad with panchromatic absorption for high-performance red-edge laser emission. CHEMICAL COMMUNICATIONS. 51 - 57, pp. 11382 - 11385. 2015. ISSN 1359-7345

Type of production: Scientific paper
Position of signature: 4

Format: Journal

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

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 6.834

Position of publication: 35

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 157

- 8** Eduardo Enciso; Luis Cerdan; Leire Gartzia Rivero; Jorge Banuelos; Angel Costela; Inigo Lopez Arbeloa; Inmaculada Garcia Moreno. Emission properties of dye-doped cationic nanoparticles: size, surfactant and monomeric composition effects. RSC ADVANCES. 5 - 6, pp. 4454 - 4462. 2015. ISSN 2046-2069

Type of production: Scientific paper
Position of signature: 3

Format: Journal

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

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 3.840

Position of publication: 33

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 157

- 9** Leire Gartzia Rivero; Luis Cerdan; Jorge Banuelos; Eduardo Enciso; Inigo Lopez Arbeloa; Angel Costela; Inmaculada Garcia Moreno. Forster Resonance Energy Transfer and Laser Efficiency in Colloidal Suspensions of Dye-Doped Nanoparticles: Concentration Effects. JOURNAL OF PHYSICAL CHEMISTRY C. 118 - 24, pp. 13107 - 13117. 19/06/2014. ISSN 1932-7447

Type of production: Scientific paper
Position of signature: 1

Format: Journal

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

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 4.835

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

**Position of publication:** 29**No. of journals in the cat.:** 251

- 10** U. Izquierdo; V. L. Barrio; K. Bizkarra; A. M. Gutierrez; J. R. Arraibi; L. Gartzia; J. Banuelos; I. Lopez Arbeloa; J. F. Cambra. Ni and Rh-Ni catalysts supported on Zeolites L for hydrogen and syngas production by biogas reforming processes. CHEMICAL ENGINEERING JOURNAL. 238, pp. 178 - 188. 15/02/2014. Available on-line at: <20th International Conference on Chemical Reactors (CHEMREACTOR)>. ISSN 1385-8947
Type of production: Scientific paper
Position of signature: 6
Total no. authors: 9
Impact source: ISI
Impact index in year of publication: 4.321
Position of publication: 9
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Science Edition - ENGINEERING, CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 134
- 11** Luis Cerdan; Leire Gartzia Rivero; Eduardo Enciso; Jorge Banuelos; Inigo Lopez Arbeloa; Angel Costela; Inmaculada Garcia Moreno. Focusing on charge-surface interfacial effects to enhance the laser properties of dye-doped nanoparticles. LASER PHYSICS LETTERS. 11 - 1, 01/2014. ISSN 1612-2011
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 7
Impact source: ISI
Impact index in year of publication: 2.964
Position of publication: 13
Format: Journal
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 82
- 12** Leire Gartzia Rivero; Jorge Banuelos; Urko Izquierdo; Victoria Laura Barrio; Kepa Bizkarra; Jose F. Cambra; Inigo Lopez Arbeloa. Microwave Synthesis of LTL Zeolites with Tunable Size and Morphology: An Optimal Support for Metal-Catalyzed Hydrogen Production from Biogas Reforming Processes. PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION. 31 - 1, pp. 110 - 120. 01/2014. ISSN 0934-0866
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 7
Impact source: ISI
Impact index in year of publication: 3.08
Position of publication: 47
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.: 259
- 13** Luis Cerdan; Eduardo Enciso; Leire Gartzia Rivero; Jorge Banuelos; Inigo Lopez Arbeloa; Angel Costela; Inmaculada Garcia Moreno. A FRET analysis of dye diffusion in core/shell polymer nanoparticles. RSC ADVANCES. 4 - 42, pp. 22115 - 22122. 2014. ISSN 2046-2069
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 7
Impact source: ISI
Impact index in year of publication: 3.840
Position of publication: 33
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.: 157



- 14** Esther M. Sanchez Carnerero; Leire Gartzia Rivero; Florencio Moreno; Beatriz L. Maroto; Antonia R. Agarrabeitia; Maria J. Ortiz; Jorge Banuelos; Inigo Lopez Arbeloa; Santiago de la Moya. Spiranic BODIPYs: a ground-breaking design to improve the energy transfer in molecular cassettes. CHEMICAL COMMUNICATIONS. 50 - 84, pp. 12765 - 12767. 2014. ISSN 1359-7345
- Type of production:** Scientific paper
Position of signature: 2
- Total no. authors:** 9
Impact source: ISI
- Impact index in year of publication:** 6.834
Position of publication: 20
- 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.: 157
- 15** Leire Gartzia Rivero; Haibo Yu; Jorge Banuelos; Inigo Lopez Arbeloa; Angel Costela; Inmaculada Garcia Moreno; Yi Xiao. Photophysical and Laser Properties of Cassettes based on a BODIPY and Rhodamine Pair. CHEMISTRY-AN ASIAN JOURNAL. 8 - 12, pp. 3133 - 3141. 12/2013. ISSN 1861-4728
- Type of production:** Scientific paper
Position of signature: 1
- Total no. authors:** 7
Impact source: ISI
- Impact index in year of publication:** 4.587
Position of publication: 26
- 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.: 157
- 16** Hegoi Manzano; Leire Gartzia Rivero; Jorge Banuelos; Inigo Lopez Arbeloa. Ultraviolet-Visible Dual Absorption by Single BODIPY Dye Confined in LTL Zeolite Nanochannels. JOURNAL OF PHYSICAL CHEMISTRY C. 117 - 25, pp. 13331 - 13336. 27/06/2013. ISSN 1932-7447
- Type of production:** Scientific paper
Position of signature: 2
- Total no. authors:** 4
Impact source: ISI
- Impact index in year of publication:** 4.835
Position of publication: 29
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
No. of journals in the cat.: 251
- 17** Leire Gartzia Rivero; Jorge Banuelos Prieto; Virginia Martinez Martinez; Inigo Lopez Arbeloa. Versatile Photoactive Materials Based on Zeolite L Doped with Laser Dyes. CHEMPLUSCHEM. 77 - 1, pp. 61 - 70. 17/01/2012. ISSN 2192-6506
- Type of production:** Scientific paper
Position of signature: 1
- Total no. authors:** 4
Impact source: ISI
- Impact index in year of publication:** 3.242
Position of publication: 38
- 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.: 148



- 18** Virginia Martinez Martinez; Cecilia Corcostegui; Jorge Banuelos Prieto; Leire Gartzia; Sandra Salleres; Inigo Lopez Arbeloa. Distribution and orientation study of dyes intercalated into single sepiolite fibers. A confocal fluorescence microscopy approach. JOURNAL OF MATERIALS CHEMISTRY. 21 - 1, pp. 269 - 276. 2011. ISSN 0959-9428
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 6.10 **Journal in the top 25%:** Yes
Position of publication: 17 **No. of journals in the cat.:** 231
- 19** Yi Xiao; Dakui Zhang; Xuhong Qian; Angel Costela; Inmaculada Garcia Moreno; Virginia Martin; M. Eugenia Perez Ojeda; Jorge Banuelos; Leire Gartzia; Inigo Lopez Arbeloa. Unprecedented laser action from energy transfer in multichromophoric BODIPY cassettes. CHEMICAL COMMUNICATIONS. 47 - 41, pp. 11513 - 11515. 2011. ISSN 1359-7345
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Impact index in year of publication: 6.378 **Journal in the top 25%:** Yes
Position of publication: 17 **No. of journals in the cat.:** 152
- 20** Koloratzaile organikoz dopaturiko L-zeolita antena material luminisente gisa. Ekaia Zientzia eta Teknologia Aldizkaria. 35, pp. 103 - 120. Basque Country(Spain): Euskal Herriko Unibertsitatea (UPV/EHU), The University of the Basque Country, 19/07/2018. Available on-line at: <<https://doi.org/10.1387/ekaia.19659>>. ISSN 0214-9001
DOI: 10.1387/ekaia.19659
Type of production: Popular science article **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 21** L. Gartzia-Rivero. Nanotechnology inspired by nature. Mapping ignorance. (Spain): 04/05/2016. Available on-line at: <<https://mappingignorance.org/2016/05/04/nanotechnology-inspired-by-nature/>>. ISSN 2529-8992
Type of production: Popular science article **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: 1 **Corresponding author:** Yes
- 22** R. Sola Llano; L. Gartzia Rivero; A. Oviden Sanchez; J. Bañuelos; I. López Arbeloa; V. Martínez Martínez. Dye encapsulation into one-dimensional zeolitic materials for optical applications. Chemistry of Silica and Zeolite-Based Materials. Elsevier, 01/07/2019. ISBN 9780128178133
Type of production: Book chapter **Format:** Book
- 23** L. Gartzia Rivero; J. Bañuelos; K. Bizakarra; U. Izquierdo; V. L. Barrio; J. F. Cambra; I. López Arbeloa. Linde Type L Zeolite: A Privileged Porous Support to Develop Photoactive and Catalytic Nanomaterials. Zeolites and Their Applications. pp. 13 - 34. London(United Kingdom): IntechOpen, 27/06/2018. Available on-line at: <DOI: 10.5772/intechopen.70980>. ISBN 978-1-78923-342-1
DOI: DOI: 10.5772/intechopen.70980
Type of production: Book chapter **Format:** Book
- 24** L. Gartzia; J. Bañuelos; N. Epelde; R. Sola; . López Arbeloa. Laser-koloratzailez dopaturiko L-Zeolita erabilera anitzeko Material Fotoaktibo gisa. Materialen Zientzia eta Teknologiaren I. Kongresua. pp. 160 - 165. Mondragon University Editorial Service, 05/2012. ISBN 84-615-8302-7
Type of production: Book chapter **Format:** Book
Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 5 **Corresponding author:** Yes



- 25** L. Gartzia Rivero; J. Banuelos; I. Lopez Arbeloa. Excitation energy transfer in artificial antennas: from photoactive materials to molecular assemblies. INTERNATIONAL REVIEWS IN PHYSICAL CHEMISTRY. 34 - 4, pp. 515 - 556. 02/10/2015. ISSN 0144-235X
- Type of production:** Review
Position of signature: 1
- Total no. authors:** 3
Impact source: ISI
Impact index in year of publication: 7.034
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, PHYSICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 139

Works submitted to national or international conferences

- 1** **Title of the work:** Tuning of Colour and Polarization of the Fluorescence of Nano-Ribbons using Laser Microscopy and Self-assembly
Name of the conference: 27th International Conference on Photochemistry
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Dublin, Ireland
Date of event: 08/07/2018
End date: 13/07/2018
Organising entity: IUPAC
Type of entity: Associations and Groups
With external admission assessment committee: Yes
L. Gartzia Rivero; P. Schäfer; C. de Vet; G. Raffy; A. Del Guerso.
- 2** **Title of the work:** Photo-patterning of Aligned Nano-fibers Emitting Polarized Light with Control of Orientation and Position of Color
Name of the conference: SP2P, Subdivision Photochimie, Photophysique et Photosciences de la DCP (SCF)
Type of event: Conference
Geographical area: Non EU International
Type of participation: Participatory - invited/keynote talk
City of event: Bordeaux, Aquitaine, France
Date of event: 07/06/2018
End date: 08/06/2018
Organising entity: Société Chimique de France
Type of entity: Public Research Body
L. Gartzia Rivero; C. de Vet; P. Schäfer; G. Raffy; A. del Guerso.
- 3** **Title of the work:** Nanotechnology inspired by nature: from photoactive nanomaterials to molecular assemblies
Name of the conference: VI Jornadas de investigación de la Facultad de Ciencia y Tecnología
Type of event: Conference
Geographical area: Regional
Type of participation: Participatory - oral communication
City of event: Leioa, Basque Country, Spain
Date of event: 14/03/2018
End date: 15/03/2018
Organising entity: University of the Basque Country (UPV/EHU)
L. Gartzia Rivero; R. Sola Llano; E. Duque; R. Prieto; E. Avellanal; A. Oliden; J. Bañuelos; T. Arbeloa; V. Martínez Martínez; I. López Arbeloa; H. Manzano.



- 4** **Title of the work:** Anisotropic Photo-Patterning of Fluorescent Nano-Fibers on Isotropic Surfaces: Control of Orientation, Position and Color
Name of the conference: Imaginenano 2018
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Bilbao, Basque Country, Spain
Date of event: 13/03/2018
End date: 15/02/2018
Organising entity: Phantons foundations, DIPC
With external admission assessment committee: Yes
A. Del Guerzo; G. Raffy; P. Schäfer; C. de Vet; L. Gartzia-Rivero. **Geographical area:** Non EU International
Reasons for participation: Review before acceptance
- 5** **Title of the work:** Single Quantum Rod Polarization Imaging of Soft Materials
Name of the conference: 28th International Conference on Photochemistry (ICP 2017)
Type of event: Conference
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Strasbourg, Alsace, France
Date of event: 16/07/2017
End date: 21/07/2017
Organising entity: University of Strasbourg /CNRS
With external admission assessment committee: Yes
L. Gartzia-Rivero; K. de Vet; P. Schäfer; G. Raffy; A. Del Guerzo. **Geographical area:** Non EU International
Reasons for participation: Review before acceptance
- 6** **Title of the work:** Laser-Patterning as a tool for Localized and Controlled Photochemistry
Name of the conference: Journée scientifique ISM spéciale 10 ans
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Bordeaux, Aquitaine, France
Date of event: 04/07/2017
End date: 04/07/2017
Organising entity: Institut des Sciences Moléculaires (University of Bordeaux)
City organizing entity: Bordeaux,
With external admission assessment committee: Yes
L. Gartzia-Rivero; P. Schäfer; K. de Vet; G. Raffy; A. Del Guerzo. **Geographical area:** Non EU International
Reasons for participation: Review before acceptance
- 7** **Title of the work:** Laser-Patterning as a tool for Localized and Controlled Photochemistry
Name of the conference: Focus on Microscopy 2017
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Bordeaux, Aquitaine, France
Date of event: 09/04/2017
End date: 12/04/2017 **Geographical area:** Non EU International
Reasons for participation: Review before acceptance



Organising entity: University of Bordeaux / University of Amsterdam

City organizing entity: Bordeaux,

With external admission assessment committee: Yes

L. Gartzia-Rivero; P. Schäfer; K. de Vet; G. Raffy; A. Del Guerso.

8 Title of the work: Dye-doped latex nanoparticles: amplified FRET-assisted laser emission in colloidal suspensions

Name of the conference: Fourth International Conference on Hybrid Materials

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Sitges, Catalonia, Spain

Date of event: 09/03/2015

End date: 13/03/2015

Organising entity: Elsevier

With external admission assessment committee: Yes

L. Gartzia-Rivero; J. Bañuelos; L. Cerdán; E. Enciso; I. López Arbeloa; A. Costela; I. García-Moreno.

9 Title of the work: Förster Resonance Energy Transfer in Polymer Nanoparticles

Name of the conference: VII Jornadas de Jóvenes Investigadores en Física Atómica y Molecular J2IFAM2015

Geographical area: National

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Jaén, Andalusia, Spain

Date of event: 27/01/2015

End date: 30/01/2015

Organising entity: University of Jaén

Type of entity: University

With external admission assessment committee: Yes

L. Cerdán; L. Gartzia-Rivero; E. Enciso; J. Bañuelos; I. López Arbeloa; A. Costela; I. García-Moreno.

10 Title of the work: On/Off switching of energy transfer processes in donor-bridge-acceptor systems

Name of the conference: XXV IUPAC Symposium on Photochemistry

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Bordeaux, Aquitaine, France

Date of event: 13/07/2014

End date: 18/07/2014

Organising entity: International Union of Pure and Applied Chemistry / University of Bordeaux

With external admission assessment committee: Yes

L. Gartzia-Rivero; H. Yu; J. Bañuelos; I. López Arbeloa; A. Costela; I. García-Moreno; Y. Xiao.

11 Title of the work: A Rational Design: an Environmental Polarity Sensor and a Laser Dye Based on BODIPY-Rhodamine Cassette

Name of the conference: Jornadas Ibéricas de Fotoquímica (4 JIF)

Type of event: Conference

Geographical area: European Union

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance



Corresponding author: No

City of event: Lisbon, Lisboa, Portugal

Date of event: 29/06/2014

End date: 02/07/2014

Organising entity: The Grupo de Fotoquímica of Sociedade Portuguesa de Química (SPQ) and the Grupo Especializado de Fotoquímica (GRUFO) of Real Sociedad Española de Química (RSEQ)

Type of entity: Associations and Groups

With external admission assessment committee: Yes

I. López Arbeloa; L. Gartzia-Rivero; J. Bañuelos; A. Costela; I. García-Moreno; Y. Xiao. En: Book of Abstracts. pp. 51 - 51.

12 Title of the work: Ultraviolet/Visible Dual Absorption by Single BODIPY Dye Confined in LTL Zeolite Nanochannels

Name of the conference: VI Jornadas de Jóvenes Investigadores en Física Atómica y Molecular J2IFAM2014

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Leioa/Erandio, Basque Country, Spain

Date of event: 22/01/2014

End date: 24/01/2014

Organising entity: University of the Basque Country **Type of entity:** University (UPV/EHU)

With external admission assessment committee: Yes

H. Manzano; L. Gartzia-Rivero; J. Bañuelos; I. López Arbeloa.

13 Title of the work: Microwave heating, a valuable tool for a straightforward síntesis of zeolite L with tunable size and morphology

Name of the conference: 17th International Zeolite Conference

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Moscow, Russia

Date of event: 07/07/2013

End date: 12/07/2013

Organising entity: International Zeolite Association

With external admission assessment committee: Yes

L. Gartzia-Rivero; J. Bañuelos; I. López-Arbeloa.

14 Title of the work: Fine-tuning of fluorescence resonance energy transfer efficiency into zeolite L nanochannels

Name of the conference: ImagineNano 2013

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Bilbao, Basque Country, Spain

Date of event: 23/04/2013

End date: 26/04/2013



Organising entity: FUNDACION PHANTOMS, CIC nanogune, University of the Basque Country, DIPC, BEC

With external admission assessment committee: Yes

L. Gartzia-Rivero; J. Bañuelos; I. López Arbeloa.

- 15** **Title of the work:** Dye inclusion within nanochannels for optoelectronic properties
Name of the conference: 3rd International Conference of Multifunctional, Hybrid and Nanomaterials
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: Sorrento, Italy
Date of event: 03/03/2013
End date: 07/03/2013
Organising entity: Elsevier
With external admission assessment committee: Yes
L. Gartzia; V. Martinez; N. Epelde; R. Sola; J. Bañuelos; I. López Arbeloa.
- 16** **Title of the work:** Dye-zeolite L hybrid materials as photonic antenna systems
Name of the conference: XXIV IUPAC Symposium of Photochemistry
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Review before acceptance
- Corresponding author:** Yes
City of event: Coimbra, Portugal
Date of event: 15/07/2012
End date: 20/07/2012
Organising entity: IUPAC
With external admission assessment committee: Yes
L. Gartzia; J. Bañuelos; T. Arbeloa; I. López Arbeloa.
- 17** **Title of the work:** Laser-koloratzailez dopaturiko L-Zeolita erabilera anitzeko Material Fotoaktibo gisa
Name of the conference: Materialen Zientzia eta Teknologiaren I. Kongresua
Type of event: Conference **Geographical area:** Regional
Type of participation: Participatory - oral communication **Reasons for participation:** Review before acceptance
- Corresponding author:** Yes
City of event: Arrasate-Mondragón, Basque Country, Spain
Date of event: 03/05/2012
End date: 04/05/2012
Organising entity: University of Mondragón, University of the Basque Country, CIC nanogune, Basque Government
With external admission assessment committee: Yes
L. Gartzia; J. Bañuelos; N. Epelde; R. Sola; I. López Arbeloa.
- 18** **Title of the work:** Photophysics of Molecules in Nanostructured Systems. Multifunctional Optoelectronic Materials
Name of the conference: III Jornadas de Investigación de La Facultad de Ciencia y Tecnología
Type of event: Workshop **Geographical area:** Regional
Reasons for participation: Workshop of Research of the Faculty of Science and Technology
City of event: Leioa, Basque Country, Spain



Date of event: 08/02/2012

End date: 10/02/2012

Organising entity: University of the Basque Country (UPV/EHU)

I. López Arbeloa; J. Bañuelos; T. Arbeloa; V. Martínez; H. Manzano; L. Gartzia; N. Epelde; I. Esnal; R. Sola.

19 Title of the work: Dye inclusion into nanochannels of alpo-5, zeolite I and sepiolite

Name of the conference: 2nd Nano Today Conference

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: Waikoloa, United States of America

Date of event: 11/12/2011

End date: 15/12/2011

Organising entity: Elsevier

With external admission assessment committee: Yes

I. López Arbeloa; V. Martínez; J. Bañuelos; L. Gartzia; I. Esnal; T. Arbeloa.

20 Title of the work: Versatile Photoactive Materials Based on Zeolite L doped with Laser Dyes

Name of the conference: III Jornadas Ibéricas de Fotoquímica

Type of event: Conference

Geographical area: European Union

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Granada, Andalusia, Spain

Date of event: 04/09/2011

End date: 07/09/2011

Organising entity: GRUFO (Grupo Especializado de Fotoquímica of Real Sociedad Española de Química) and SPQ (Grupo de Fotoquímica of Sociedade Portuguesa de Química))

With external admission assessment committee: Yes

L. Gartzia; J. Bañuelos; V. Martínez; I. López Arbeloa.

21 Title of the work: Photoactive Nanomaterials based on Zeolite L doped with BODIPY

Name of the conference: Imaginenano 2011

Type of event: Conference

Geographical area: Non EU International

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Bilbao, Basque Country, Spain

Date of event: 11/04/2011

End date: 14/04/2011

Organising entity: UPV/EHU, CIC nanogune, DIPC, Phantoms

With external admission assessment committee: Yes

L. Gartzia; J. Bañuelos; I. López Arbeloa.

22 Title of the work: Distribution and Orientation Study of Dyes into Single Sepiolite Fibers by Confocal Fluorescent Microscopy

Name of the conference: XXIII IUPAC Symposium on Photochemistry

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

City of event: Ferrara, Italy



Date of event: 11/07/2010
End date: 16/07/2010
Organising entity: IUPAC
With external admission assessment committee: Yes
L. Gartzia; V. Martínez; C. Corcóstegui; I. López Arbeloa.

- 23 Title of the work:** Photophysics of Molecules in Nanostructured Systems. Multifunctional Optoelectronic Materials
Name of the conference: II Jornadas de Investigación de La Facultad de Ciencia y Tecnología
Type of event: Workshop
Type of participation: 'Participatory - poster
Geographical area: Regional
Reasons for participation: Workshop of Research of the Faculty of Science and Technology
City of event: Leioa/Erandio, Basque Country, Spain
Date of event: 15/03/2010
End date: 17/03/2010
Organising entity: University of the Basque Country (UPV/EHU)
I. López Arbeloa; T. Arbeloa; J. Bañuelos; V. martínez; C. Corcostegui; L. Gartzia.

Other dissemination activities

- 1 Title of the work:** Emakumeak, ahaztutako zientzialariak (Women, the forgotten researchers)
Name of the event: Dissemination article. Women in science
Type of event: Media interviews
Geographical area: Regional
Reasons for participation: Upon invitation
City of event: 01/2017, Spain
Date of event: 01/2017
Organising entity: Basque Government
Type of entity: State agency
Type: Popular science article
M. Orue. En: IVAP Administrazioa Euskaraz. 95, pp. 26 - 27. 01/2017. Available on-line at: <<https://www.euskadi.eus/r61-vedadmeu/eu/t59aWar/t59aMostrarFicheroServlet?t59aldRevista=1&R01HNoPortal=true&t59aTipoEjemplar=R&t59aNumEjemplar=95>>. ISSN 1576-5563
- 2 Title of the work:** Leire Gartzia Rivero-Nanokimikaria (Nanotechnology)
Name of the event: Interview in scientific dissemination journal
Type of event: Media interviews
Geographical area: Regional
Reasons for participation: Upon invitation
City of event: 04/03/2016, Spain
Date of event: 04/03/2016
Organising entity: Elhuyar Zientzia eta Teknologia Journal
Type: Popular science article
A. Galarraga. En: Elhuyar Aldizkaria. 321, pp. 19 - 19. Basque Country (Spain): 04/03/2016. Available on-line at: <<http://aldizkaria.elhuyar.eus/ekinean/helmugara-iritsi-zarela-uste-duzunean-urrundu-egit/>>. ISSN 2255-4998
- 3 Title of the work:** La Química en todas partes (Chemistry everywhere)
Name of the event: XV Semana de la Ciencia, Tecnología e Innovación
Type of event: Fairs and exhibitions
Geographical area: Regional
Reasons for participation: Upon invitation
City of event: Bilbao, 11/2015, Spain
Date of event: 11/2015



Organising entity: University of the Basque Country (UPV/EHU)

- 4** **Title of the work:** Understanding the nano-world
Name of the event: Ingurumenaren Astea 2015 (Week of science)
Type of event: Fairs and exhibitions
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: Gernika-Lumo, 03/2015, Spain
Date of event: 03/2015
Organising entity: Seber Altube Ikastola
 L. Gartzia-Rivero.
- 5** **Title of the work:** Leire Gartzia Rivero: 'Kimikearen garapenak ezagutzen dogun bizimodu nasaia ahalbidetu dau'
Name of the event: Personal Interview in a regional journal
Type of event: Media interviews **Geographical area:** Regional
Reasons for participation: Upon invitation
Corresponding author: No
City of event: 26/01/2015, Spain
Date of event: 26/01/2015
Organising entity: Bizkaie Aldizkaria ("Bizkaie" Journal)
 G. Intxaurbe-Etxebarria. En: Bizkaie Aldizkaria. Basque Country (Spain): 26/01/2015. Available on-line at: <<https://bizkaie.biz/1462834580849>>.

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Université de Bordeaux & CNRS **Type of entity:** University Research Institute
City of entity: Bordeaux, Aquitaine, France
Primary (UNESCO code): 230000 - Chemistry
Start-End date: 28/01/2016 - 29/01/2018 **Duration:** 2 years
Name of programme: Programme for the Improvement of Researchers
Goals of the stay: Post-doctoral
Provable tasks: Field of Research: Multifunctional Nanomaterials: Self-Assembled Organic Building Blocks Towards Opto-Electronic And Photonic Applications
Acquired skills developed: Expertise in Supramolecular Chemistry. Self-assembly of organic building blocks and Microspectroscopic Techniques. (Fluorescence Lifetime imaging, hyperspectral imaging, polarization microscopy, single molecule localization)
- 2** **Entity:** University of Fribourg **Type of entity:** University
Faculty, institute or centre: Department of Chemistry - Group of Prof. Peter Belsler
City of entity: Fribourg, Switzerland
Start-End date: 31/08/2013 - 29/11/2013
Funding entity: Basque Government **Type of entity:** State agency
Goals of the stay: Doctorate
Provable tasks: Predoctoral stay for the "Development of Photoactive Nanomaterials based on the encapsulation of organic dyes into nanostructured systems"



Obtained grants and scholarships

- 1** **Name of the grant:** Postdoctoral Program for the Development of Doctor Researchers
Aims: Post-doctoral
Awarding entity: Basque Government (Department of Education, Universities and Research) **Type of entity:** State agency
Conferral date: 29/01/2016 **Duration:** 3 years
End date: 28/01/2019
Entity where activity was carried out: University of Bordeaux-CNRS (2 years) + University of the Basque Country (1 last-year)
- 2** **Name of the grant:** Predoctoral Program (PREDOC)
Aims: Pre-doctoral
Awarding entity: Basque Government (Department of Education, Universities and Research)
Conferral date: 01/01/2011 **Duration:** 4 years
End date: 31/12/2014
Entity where activity was carried out: Faculty of Science and Technology (UPV/EHU)
- 3** **Name of the grant:** Grants for short stays in foreign research centers (under the Program for the development of predoctoral researchers)
Aims: Pre-doctoral
Awarding entity: Basque Government (Department of Education, Universities and Research) **Type of entity:** State agency
Conferral date: 30/08/2013 **Duration:** 3 months
End date: 30/11/2013
- 4** **Name of the grant:** Official Masters Scholarships
Aims: Funding of Master studies
Awarding entity: University of the Basque Country (UPV/EHU) **Type of entity:** University
Conferral date: 09/2009 **Duration:** 1 year
End date: 09/2010
- 5** **Name of the grant:** Additional grants for the obtention of the PhD.
Aims: Reward for finishing the PhD within the programmed period
Awarding entity: Basque Government (Department of Education, Universities and Research) **Type of entity:** State agency
Conferral date: 12/01/2015

Other types of collaboration with researchers or technologists

Type of relationship: Networks without joint project

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

Description of the collaboration: Campus of Excellence, Bordeaux-Euskampus (Aquitaine-Basque Country network)

City: Bordeaux, Aquitaine, France

Participating entity/entities:

Institute des Sciences Moléculaires - ISM

City participating entity: Bordeaux, Aquitaine, France



Start date: 28/01/2016

Scientific societies and professional associations

- 1 Name of the society:** Fotoquímica (FOT)
Affiliation entity: Real Sociedad Española de Química
City affiliation entity: Basque Country, Spain
Start date: 23/01/2017
Type of entity: Scientific
- 2 Name of the society:** Nanociencia y Materiales Moleculares (MAM)
Affiliation entity: Real Sociedad Española de Química
City affiliation entity: Basque Country, Spain
Nº of members: 298
Start date: 23/01/2017
Type of entity: Scientific
- 3 Name of the society:** Real Sociedad Española de Química (RSEQ)
Affiliation entity: Real Sociedad Española de Química
City affiliation entity: Basque Country, Spain
Start date: 23/01/2017
Type of entity: Scientific

Prizes, mentions and distinctions

Description: Extraordinary Doctorate Award
Awarding entity: University of the Basque Country
City awarding entity: Basque Country, Spain
Conferral date: 08/06/2017
Type of entity: University

Obtained accreditations/recognitions

Description: Assistant Professor Doctor
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación
Date of recognition: 11/03/2015
Type of entity: State Agency