



Aitzol Garcia Echarri

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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.

Based on the knowledge acquired as a practicum and master's student, I began my Ph.D. in Microbiology in 2017 at the Autonomous University of Barcelona (UAB), in collaboration with the Institute of Photonic Sciences in Castelldefels (recognized with the Severo Ochoa accreditation for excellence), thanks to the competitive PIF scholarship from UAB. During this period, I also contributed to academic training, dedicating 400 hours to teaching Biotechnology and Microbiology students (3rd course). Additionally, I supervised 4 undergraduate students and 1 master's student during their practical training. I had the honor of being invited to give various practical sessions and talks related to scientific education. My main work during the doctorate was to elucidate the relationship between the DNA repair system and the movement of Salmonella. We discovered that the protein involved in repair also interacted with chemoreceptor rings, vital for the colonization movement of this bacterium. For this aspect, it was essential to train in and use super-high-resolution microscopy. After publishing my first-authored article in 2020 on this work, my thesis supervisor, Dra. Susana Campoy, supported my idea to study the nosocomial pathogen *Enterobacter cloacae*. The discoveries I made during this research have laid the foundation for several doctoral theses, addressing aspects such as chemotaxis, antibiotic resistance, and iron uptake, presented at conferences and in various articles in progress.

In the last year of my Ph.D., I spent six months at the Institute for Pharmaceutical Biology and Phytochemistry in Münster, Germany, under the supervision of Prof. Dr. Andreas Hensel and in collaboration with Dr. Francisco Goycoolea from the University of Leeds, UK. This experience was made possible by being granted through the European Molecular Biology Organization (EMBO). The results obtained during my stay led to the development of a scientific article highlighting the different capabilities of *E. cloacae* to infect various organs. Despite being a recent publication, the article has already garnered a noteworthy number of citations. The experience gained in cell culture allowed me to optimize and introduce these techniques for the first time in the laboratory where I primarily conducted my doctoral thesis. Furthermore, the collaboration with Prof. A. Hensel has opened new opportunities for me: I am actively contributing ideas for a project (still in development) involving his laboratory in Germany, the Autonomous University of Barcelona in Spain, and the University of Oslo (UoO) and the Department of Pharmacognosy and Medical Faculty in Norway.

Upon completing my Ph.D. in 2022, I started as a postdoctoral researcher in the laboratory of Dr. Luis Serrano at the Center for Genomic Regulation in Barcelona (accredited with the Severo Ochoa excellence). During this time, I have participated in both national and international projects, first-authored a review article (submitted to *Current Opinion in Systems Biology*), and mentored and trained three international students (two undergraduates and one doctoral exchange student). Currently, I am working on the ERC and National Plan projects related to the genetic modification of *Mycoplasma pneumoniae* to treat lung diseases. Dr. L. Serrano has supported for some of my proposals. One of my proposals that I would like to highlight is the development of an RNA delivery system against lung cancer cells using *M. pneumoniae*. Various principal investigators at the CRG have expressed interest in my project for potential future collaborations.



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.

My research has led to 55 articles in peer-reviewed scientific journals, many in the most relevant journals in my field (Nature Photonics, Nature Methods, Nature Nanotechnology, Advanced Materials, Nature Comm., Nano Letters, Physical Review Letters, etc.). Moreover, I coauthored 1 patent (US Patent Nr.: US 10,611,752). According to Google Scholar these articles have been cited around 6000 times, giving an h-factor of 31. 4 of these articles accumulate more than 500 citations, 14 of them more than 100.

I've been a principal investigator (PI) or co-PI in 20 research projects. I participated in 10 additional projects. I am the coordinator of the Basque NanoNeuro Network (B3N), a project recently funded by the Basque Government with 4.115.000 euros.

The results of my research has been presented in more than 80 international research conferences and colloquia, among which I presented the contribution in the form of invited talks in more than 30 of them and 1 as a plenary speaker. I organised around 15 conferences and scientific meetings/events. I've been the supervisor of 1 defended Ph.D Thesis and 3 Master Theses. I currently supervise 6 PhD theses.



Aitzol Garcia Echarri

Surname(s): **Garcia Echarri**
 Name: **Aitzol**
 ORCID: **0000-0002-5867-2390**
 ScopusID: **56036101600**
 ResearcherID: **L-1965-2019**
 Contact aut. region/reg.: **Basque Country**
 Personal web page: **nanowaves.dipg.org**

Current professional situation

Employing entity: Donostia International Physics Center
Type of entity: Fundacion
Professional category: Ikerbasque Research Fellow
Phone: 722111797
Start date: 01/11/2019
Dedication regime: Full time

Previous positions and activities

	Employing entity	Professional category	Start date
1	Donostia International Physics Center	Gipuzkoa Fellow	01/11/2014
2	Universidad del País Vasco	Profesor laboral Interino	01/11/2017
3	Stanford University	Postdoctoral Researcher	14/01/2011
4	Consejo Superior de Investigaciones Científicas	Ph.D. Student	01/04/2006
5	Donostia International Physics Center	Ph.D. Student	01/04/2006

- 1 **Employing entity:** Donostia International Physics Center
Type of entity: Fundacion
Professional category: Gipuzkoa Fellow
Start-End date: 01/11/2014 - 31/10/2019 **Duration:** 5 years
- 2 **Employing entity:** Universidad del País Vasco
Type of entity: University
Professional category: Profesor laboral Interino
Start-End date: 01/11/2017 - 01/09/2018 **Duration:** 10 months
- 3 **Employing entity:** Stanford University
Type of entity: University
Professional category: Postdoctoral Researcher
Start-End date: 14/01/2011 - 31/12/2014 **Duration:** 4 years

4



Employing entity: Consejo Superior de Investigaciones Científicas

Type of entity: State agency

Department: CENTRO DE FÍSICA DE MATERIALES - MATERIALEN FISIKA ZENTROA

City employing entity: San Sebastian, Basque Country, Spain

Professional category: Ph.D. Student

Educational Management (Yes/No): No

Phone: (+34) 943-01.87.86

Fax: (+34) 943-01.58.00

Start-End date: 01/04/2006 - 31/12/2010

Duration: 4 years - 9 months - 31 days

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

Dedication regime: Full time

Primary (UNESCO code): 220900 - Optics

5 **Employing entity:** Donostia International Physics Center **Type of entity:** Foundation

Department: Theory of Nanophotonics Group

City employing entity: San Sebastian, Basque Country, Spain

Professional category: Ph.D. Student

Educational Management (Yes/No): No

Phone: (+34) 943 01 8830

Fax: (+34) 943 01 5600

Start-End date: 01/04/2006 - 31/12/2010

Duration: 4 years - 9 months - 31 days

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

Dedication regime: Full time

Primary (UNESCO code): 220900 - Optics



Education

University education

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

University degree: Higher degree

Name of qualification: Ingeniero de Telecomunicación Especialidad Radiocomunicaciones

City degree awarding entity: San Sebastian, Basque Country, Spain

Degree awarding entity: Universidad de Navarra **Type of entity:** University

Date of qualification: 2006

Doctorates

Doctorate programme: Physics of Nanostructures and Advanced Materials

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

City degree awarding entity: San Sebastian, Basque Country, Spain

Date of degree: 2010

DEA awarding entity: Universidad del País Vasco

Date DEA was awarded: 2008

European doctorate: Yes

Date of certificate: 28/10/2010

Thesis title: Modelling of plasmonic nanoantennas for optical microscopy and surface enhanced spectroscopy

Thesis director: Javier Aizpurua Iriazabal

Thesis co-director: Pedro Miguel Echenique Landaribar

Obtained qualification: Sobresaliente Cum Laude

Recognition of quality: Yes

Special doctorate award: Yes

Date of award: 2010

Standardised degree: Yes

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** PhD Thesis: 3D Topological Photonic Crystals from a Tight Binding perspective
Entity: Universidad del País Vasco **Type of entity:** University
Student: Antonio Morales Perez
Date of reading: 18/05/2026
- 2 Project title:** PhD Thesis: Non-Hermitian quantum mechanics for bosons and fermions: application to quantum technologies
Entity: Universidad del País Vasco **Type of entity:** University
Student: Carolina Martinez Strasser



Date of reading: 18/05/2026

- 3** **Project title:** PhD Thesis: nanoneuro: nanoparticles for the excitation and detection of action potentials in neural networks
Entity: Universidad del País Vasco **Type of entity:** University
Student: Teresa Itziar Celaya Garmendia
Date of reading: 18/05/2025
- 4** **Project title:** PhD Thesis: Topological quantum simulators
Entity: Universidad del País Vasco **Type of entity:** University
Student: Miguel Angel Jimenez Herrera
Date of reading: 01/02/2024
- 5** **Project title:** PhD Thesis: Topological phases at the frontier of electronic, optical and acoustic materials.
Entity: Universidad del País Vasco **Type of entity:** University
Student: Chiara Devescovy
Date of reading: 10/12/2023
- 6** **Project title:** PhD Thesis: Quantum and classical applications of chiral nanophotonics
Entity: Universidad del País Vasco **Type of entity:** University
Student: Jon Lasa Alonso
Date of reading: 20/10/2023
- 7** **Project title:** Master Thesis: Machine learning applied to nanophotonic
Entity: Universidad del País Vasco **Type of entity:** University
Student: Edurne Saenz Parraga
Date of reading: 14/09/2022
- 8** **Project title:** Master Thesis: Tight-Binding Model of a 3D Photonic Crystal
Entity: Universidad del País Vasco **Type of entity:** University
Student: Antonio Morales Perez
Date of reading: 10/09/2022
- 9** **Project title:** PhD Thesis: Design and Topological Characterization of 2D Photonic Crystals
Entity: Donostia International Physics Center **Type of entity:** Fundacion
Student: Maria Blanco De Paz
Date of reading: 27/01/2022
- 10** **Project title:** Master Thesis: Design of nanophotonic substrates for Surface Enhanced Circular Dichroism spectroscopy
Entity: Donostia International Physics Center **Type of entity:** Fundacion
Student: Jon Lasa Alonso
Date of reading: 31/07/2018



Other activities/achievements not included above

- 1** **Description of the activity:** Supervision of Postdoctoral Researcher: Diego Romero Abujetas
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion
End date: 30/10/2025
- 2** **Description of the activity:** Supervision of Postdoctoral Researcher: German Pieslinger
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion
End date: 30/06/2025
- 3** **Description of the activity:** Supervision of Postdoctoral Researcher: Javier Alfaro Mozaz
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion
End date: 31/12/2024
- 4** **Description of the activity:** Supervision of Postdoctoral Researcher: Maria Blanco de Paz
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion
End date: 31/12/2024
- 5** **Description of the activity:** Supervision of Postdoctoral Researcher: Maria Isabel Ardaya
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion
End date: 31/08/2024
- 6** **Description of the activity:** Supervision of Postdoctoral Researcher: Jorge Olmos Trigo
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion
End date: 01/11/2022
- 7** **Description of the activity:** Supervision de estudiante en practicas: Edurne Saenz Parraga
Organising entity: UPV-EHU **Type of entity:** University
End date: 31/08/2021
- 8** **Description of the activity:** Supervision de estudiante en practicas: Jon Lasa Alonso
Organising entity: UPV-EHU **Type of entity:** University
End date: 31/08/2017
- 9** **Description of the activity:** Supervision de estudiante en practicas: Rodrigo Asensio
Organising entity: UPV-EHU **Type of entity:** University
End date: 31/08/2016
- 10** **Description of the activity:** Mentorship of Ph.D. students: Ashwin C. Atre
Organising entity: Stanford University **Type of entity:** University
End date: 30/10/2014



- 11** **Description of the activity:** Mentorship of Ph.D. students: Hadiseh Alaeian
Organising entity: Stanford University **Type of entity:** University
End date: 30/10/2014
- 12** **Description of the activity:** Mentorship of Ph.D. students: Jonathan A. Scholl
Organising entity: Stanford University **Type of entity:** University
End date: 30/10/2014
- 13** **Description of the activity:** Mentorship of Ph.D. students: Shing Shing Ho
Organising entity: Stanford University **Type of entity:** University
End date: 30/10/2014
- 14** **Description of the activity:** Teaching assistant in the Mathematics and Applied Physics department of the University of Navarra. Tasks: Designing, writing and lecturing lab courses on Optical communications and Lasers
Organising entity: Universidad de Navarra **Type of entity:** University
End date: 2003
- 15** **Description of the activity:** Teaching assistant in the electronics and telecommunications department of the University of Navarra. Tasks: Designing and lecturing lab courses for the subject "Laboratory on instrumentation and measurement techniques"
Organising entity: Universidad de Navarra **Type of entity:** University
End date: 2002
- 16** **Description of the activity:** Teaching assistant in the electronics and telecommunications department of the University of Navarra. Tasks: Designing and lecturing lab courses on the integrated circuit design and simulation tool CADENCE
Organising entity: Universidad de Navarra **Type of entity:** University
End date: 2002
- 17** **Description of the activity:** Teaching assistant in the Electronics and Telecommunications department of the University of Navarra. Tasks: Preparing teaching material for various telecommunications engineering courses.
Organising entity: Universidad de Navarra **Type of entity:** University
End date: 2001



Scientific and technological experience

Research and development groups/teams

- 1 Name of the group:** Basque NanoNeuro Network (B3N)
Aims of the group: To explore the capabilities of nanotechnologies in the neurosciences
Name of principal investigator: Aitzol Garcia-Etxarri
Standardised code: B3N **Type of collaboration:** Co-authorship of projects and their development
Affiliation entity: 7 Research institutions in the Basque Country (DIPC, MPC, Achucarro, Biofisika, Biodonostia, Biomagune, and Tecnalia) + Columbia University and Stanford University
Start date: 01/01/2022
- 2 Name of the group:** Programa Mestizajes
Aims of the group: Un encuentro entre Ciencia, Literatura y Arte
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Consejo Superior de Investigaciones Cientificas **Type of entity:** State agency
Start date: 2016
- 3 Name of the group:** NANOANTENNA
Aims of the group: Development of a high sensitive and specific nanobiosensor based on surface enhanced vibrational spectroscopy dedicated to the in vitro proteins detection and disease diagnosis
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: 12 european research institutes specialized in Physics, Chemistry and Health Sciences
Start date: 01/10/2009 **Duration:** 3 years - 5 months

Scientific or technological activities

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

- 1 Name of the project:** (IP) Artificial Intelligence applied to the design of plasmonic nanoparticles to be used as neuromodulators
Entity where project took place: Donostia International Physics Center **Type of entity:** Fundacion
Name principal investigator (PI, Co-PI....): Aitzol Garcia Etxarri
Funding entity or bodies: Gobierno Vasco **Type of entity:** Government
Name of the programme: IKUR HPC 2023
Start-End date: 01/01/2023 - 31/12/2026
Total amount: 66.576 €
- 2 Name of the project:** (IP) Optical response of chiral interfaces
Entity where project took place: Donostia International Physics Center **Type of entity:** Fundacion
Name principal investigator (PI, Co-PI....): Aitzol Garcia Etxarri

**Funding entity or bodies:**

Gobierno Vasco

Type of entity: Government**Name of the programme:** IKUR Tecnologías Cuánticas 2023**Start-End date:** 01/01/2023 - 31/12/2026**Total amount:** 82.516 €**3 Name of the project:** (IP y coordinador) nanoneuro**Type of project:** Basic research (including archaeological digs, etc)**Degree of contribution:** Coordinator of total project, network or consortium**Entity where project took place:** Donostia**Type of entity:** Fundacion

International Physics Center

City of entity: Donostia, Basque Country, Spain**Name principal investigator (PI, Co-PI....):** Aitzol Garcia-Etxarri**Nº of researchers:** 24**Funding entity or bodies:**

Gobierno Vasco

Type of entity: Government**Type of participation:** Co-ordinator**Name of the programme:** IKUR neurobio**Start-End date:** 01/11/2022 - 31/12/2025**Participating entity/entities:** Achucarro, Basque center for neuroscience; Biodonostia; Columbia University; Donostia International Physics Center ; Fundación Biofísica Bizkaia; Materials Physics Center; Stanford University; TECNALIA CORPORACION TECNOLOGICA A I E; biomaGUNE**Total amount:** 4.115.000 €**4 Name of the project:** Quantum Spain**Entity where project took place:** Donostia**Type of entity:** Fundacion

International Physics Center

Funding entity or bodies:

Ministerio de asuntos economicos y transformacion digital

Type of entity: State agency**City funding entity:** Madrid, Community of Madrid, Spain**Start-End date:** 01/01/2022 - 31/12/2025**Total amount:** 2.743.700 €**Sub-project amount:** 233.800 €**5 Name of the project:** (IP) TOPology in Photonic and Electronic Systems (TOPPES) - Proyectos de Generacion de Conocimiento 2022**Entity where project took place:** Donostia**Type of entity:** Fundacion

International Physics Center

City of entity: San Sebastian, Basque Country, Spain**Name principal investigator (PI, Co-PI....):** Aitzol Garcia Etxarri; Maia G. Vergniory**Funding entity or bodies:**

Ministerio de Ciencia e Innovación

Type of entity: Gobierno de España**Start-End date:** 01/09/2023 - 01/09/2025**Total amount:** 125.000 €**6 Name of the project:** (Co-IP) u4Smart**Entity where project took place:** Donostia**Type of entity:** Fundacion

International Physics Center

City of entity: San Sebastian, Basque Country, Spain**Funding entity or bodies:**



Gobierno Vasco

City funding entity: Spain**Type of entity:** Gobierno Vasco**Name of the programme:** Elkartek 2023**Start-End date:** 01/03/2023 - 31/12/2024**Total amount:** 1.170.327 €**Sub-project amount:** 70.964,27 €**7 Name of the project:** (IP) Optically manipulating neuronal activity with nanoparticles**Entity where project took place:** Donostia
International Physics Center**Type of entity:** Fundacion**Name principal investigator (PI, Co-PI....):** Aitzol Garcia Etxarri**Funding entity or bodies:**

Gobierno Vasco

Type of entity: Government**Name of the programme:** IKUR neurobio 2021**Start-End date:** 01/01/2022 - 31/12/2024**Total amount:** 82.516 €**8 Name of the project:** (IP) Quantum Metasurfaces**Entity where project took place:** Donostia
International Physics Center**Type of entity:** Fundacion**Name principal investigator (PI, Co-PI....):** Aitzol Garcia Etxarri**Funding entity or bodies:**

Gobierno Vasco

Type of entity: Government**Name of the programme:** IKUR Tecnologias Cuanticas 2021**Start-End date:** 01/01/2022 - 31/12/2024**Total amount:** 82.516 €**9 Name of the project:** (Co-IP) Quantum correlations in nanostructures for quantum applications - Gipuzkoa Quantum 2023**Type of project:** Basic research (including archaeological digs, etc)**Entity where project took place:** Donostia
International Physics Center**Type of entity:** Fundacion**Name principal investigator (PI, Co-PI....):** Aitzol Garcia-Etxarri; David Casanova; Nicolas Lorente; Tobias Grass; Dario Bercioux**Funding entity or bodies:**

Diputación Foral de Gipuzkoa

Type of entity: Diputacion**Start-End date:** 27/03/2023 - 18/04/2024**Total amount:** 37.020 €**10 Name of the project:** (IP) Artificial Intelligence Photonics 2023**Entity where project took place:** Donostia
International Physics Center**Type of entity:** Fundacion**City of entity:** Donostia, Basque Country, Spain**Funding entity or bodies:**

Diputación Foral de Gipuzkoa

Type of entity: Diputacion**Start-End date:** 01/06/2023 - 31/12/2023**Total amount:** 7.021 €



- 11 Name of the project:** (IP) MoleConf2022
Entity where project took place: Donostia International Physics Center
City of entity: Donostia, Basque Country, Spain
Funding entity or bodies: Diputación Foral de Gipuzkoa
Start-End date: 01/06/2022 - 31/12/2022
Total amount: 8.873 €
Type of entity: Fundacion
Type of entity: Diputacion
- 12 Name of the project:** Engineering quantum matter and nanostructures for quantum computation and applications
Entity where project took place: Donostia International Physics Center
City of entity: Donostia, Basque Country, Spain
Name of the programme: Gipuzkoa Next
Start-End date: 24/08/2021 - 31/12/2022
Total amount: 106.083 €
Type of entity: Fundacion
- 13 Name of the project:** (Co-IP) u4IloT
Entity where project took place: Donostia International Physics Center
City of entity: San Sebastian, Basque Country, Spain
Funding entity or bodies: Gobierno Vasco
City funding entity: Spain
Name of the programme: Elkartek 2021
Start-End date: 16/07/2021 - 31/12/2022
Total amount: 1.690.239,9 €
Type of entity: Fundacion
Type of entity: Gobierno Vasco
Sub-project amount: 54.871,14 €
- 14 Name of the project:** (IP) Symmetry breaking phenomena in light-matter interactions
Entity where project took place: Donostia International Physics Center
City of entity: San Sebastian, Basque Country, Spain
Name principal investigator (PI, Co-PI...): Aitzol Garcia Etxarri
Funding entity or bodies: Ministerio de Ciencia e Innovación
Start-End date: 01/06/2020 - 31/12/2022
Total amount: 65.340 €
Type of entity: Fundacion
Type of entity: Gobierno de España
- 15 Name of the project:** (IP) Topophoto2022
Entity where project took place: Donostia International Physics Center
City of entity: Donostia, Basque Country, Spain
Funding entity or bodies: Diputación Foral de Gipuzkoa
Start-End date: 01/03/2022 - 01/07/2022
Total amount: 7.906 €
Type of entity: Fundacion
Type of entity: Diputacion



- 16 Name of the project:** Q-NANOFOT (Nanofotónica cuántica para la caracterización de nuevos procesos y aplicaciones en espectroscopías moleculares, microscopía de campo cercano y tecnologías cuánticas con fotones
Entity where project took place: CENTRO DE FÍSICA DE MATERIALES **Type of entity:** State agency
Name principal investigator (PI, Co-PI....): Javier Aizpurua; Nerea Zabala; Rainer Hillenbrand; V. Silkin; Yuri Racovich; Alberto Rivacoba; Alexey Nikitin; Ruben Esteban Llorente; Aitzol Garcia Etxarri
Nº of researchers: 9
Start-End date: 01/01/2019 - 31/12/2021
Total amount: 245.700 €
- 17 Name of the project:** (Co-IP) Desarrollo de foto-sensores moleculares aplicados a problemas de física fundamental
Entity where project took place: Donostia International Physics Center **Type of entity:** Fundacion
City of entity: San Sebastian, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Juan Jose Gomez Cadenas; Aitzol Garcia Etxarri; Eduard Matito; Maia Garcia Vergniory; Arantzazu Garcia Lekue
Start-End date: 01/06/2019 - 31/12/2020
Total amount: 74.330 €
- 18 Name of the project:** (Co-IP) u4INDUSTRY
Entity where project took place: Donostia International Physics Center **Type of entity:** Fundacion
City of entity: San Sebastian, Basque Country, Spain
Funding entity or bodies: Gobierno Vasco **Type of entity:** Gobierno Vasco
City funding entity: Spain
Name of the programme: Elkartek 2019
Start-End date: 01/05/2019 - 31/12/2020
Total amount: 1.786.419,68 € **Sub-project amount:** 48.103,68 €
- 19 Name of the project:** (IP) nanoneuro2020
Entity where project took place: Universidad del País Vasco **Type of entity:** University
City of entity: San Sebastian, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Aitzol Garcia Etxarri; Juan Jose Saenz
Nº of researchers: 2
Funding entity or bodies: Gobierno Vasco **Type of entity:** Gobierno Vasco
City funding entity: Spain
Start-End date: 01/01/2020 - 01/07/2020
Total amount: 12.736 €
- 20 Name of the project:** Spin-Orbit Photonics and Quantum Applications (SOPhoQua)
Entity where project took place: Donostia International Physics Center **Type of entity:** Fundacion
City of entity: San Sebastian, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Juan Jose Saenz
Nº of researchers: 4
Funding entity or bodies:



Gobierno Vasco

City funding entity: Spain

Start-End date: 17/01/2017 - 31/12/2019

Total amount: 64.600 €

Type of entity: Gobierno Vasco

21 Name of the project: PLASMOQUANTA

Entity where project took place: CENTRO DE FISICA DE MATERIALES

Funding entity or bodies:

Ministerio de Economía y Competitividad

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 01/01/2017 - 31/12/2019

Total amount: 133.100 €

Type of entity: State agency

22 Name of the project: (Co-IP) u4F

Entity where project took place: Donostia International Physics Center

City of entity: San Sebastian, Basque Country, Spain

Funding entity or bodies:

Gobierno Vasco

City funding entity: Spain

Name of the programme: Elkartek 2017

Start-End date: 01/09/2017 - 31/12/2018

Total amount: 1.423.700,95 €

Type of entity: Fundacion

Type of entity: Gobierno Vasco

Sub-project amount: 25.797,75 €

23 Name of the project: (IP) CEN2018

Entity where project took place: Universidad del País Vasco

City of entity: San Sebastian, Basque Country, Spain

Name principal investigator (PI, Co-PI...): Aitzol Garcia Etxarri; Juan Jose Saenz

Nº of researchers: 2

Funding entity or bodies:

Gobierno Vasco

City funding entity: Spain

Start-End date: 01/05/2018 - 01/12/2018

Total amount: 7.443 €

Type of entity: University

Type of entity: Gobierno Vasco

24 Name of the project: (Co-IP) MICRO4FAB

Entity where project took place: Donostia International Physics Center

City of entity: San Sebastian, Basque Country, Spain

Funding entity or bodies:

Gobierno Vasco

City funding entity: Spain

Name of the programme: Elkartek 2016

Start-End date: 01/03/2016 - 31/12/2017

Total amount: 1.905.832 €

Type of entity: Fundacion

Type of entity: Gobierno Vasco

Sub-project amount: 36.004,19 €



- 25 Name of the project:** PLASMOGAP
Entity where project took place: CENTRO DE FISICA DE MATERIALES **Type of entity:** State agency
Funding entity or bodies:
Ministerio de Economía y Competitividad
City funding entity: Madrid, Community of Madrid, Spain
Start-End date: 01/01/2014 - 31/12/2016
Total amount: 165.770 €
- 26 Name of the project:** NANOANTENNA: Development of a high sensitive and specific nanobiosensor based on surface enhanced vibrational spectroscopy dedicated to the in vitro proteins detection and disease diagnosis
Entity where project took place: CENTRO DE FISICA DE MATERIALES **Type of entity:** State agency
City of entity: San Sebastian, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Javier Aizpurua Iriazabal
Funding entity or bodies:
European Commission: CORDIS: FP7
City funding entity: Brussels, Belgium
Start-End date: 01/10/2009 - 31/03/2013
Total amount: 279.891,5 €
- 27 Name of the project:** CIC nanoGUNE Consolider: Creation of a new research center for the coordination, development and management of the research on nanoscience at the Basque country
Entity where project took place: ASOCIACION CIC NANOGUNE
City of entity: San Sebastian, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Pedro Miguel Echenique
Funding entity or bodies:
Ministerio de Educación y Ciencia - MEC **Type of entity:** State agency
City funding entity: Madrid, Community of Madrid, Spain
Start-End date: 01/01/2007 - 31/12/2012
Total amount: 4.500.000 €
- 28 Name of the project:** Plasmonic interactions on field enhanced microscopy and spectroscopy
Entity where project took place: CENTRO DE FISICA DE MATERIALES **Type of entity:** State agency
City of entity: San Sebastian, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Javier Aizpurua
Funding entity or bodies:
Consejo Superior de Investigaciones Cientificas **Type of entity:** State agency
City funding entity: Madrid, Community of Madrid, Spain
Start-End date: 01/10/2008 - 31/12/2009
Total amount: 30.000 €
- 29 Name of the project:** Electron dynamics on nanostructures and surfaces
Entity where project took place: CENTRO DE FISICA DE MATERIALES **Type of entity:** State agency
City of entity: San Sebastian, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Andrés Arnau Pino
Funding entity or bodies:



Ministerio de Educación y Ciencia - MEC

Type of entity: State agency

City funding entity: Madrid, Basque Country, Spain

Start-End date: 01/01/2007 - 31/12/2009

Total amount: 242.000 €

30 Name of the project: NANOTRON: Nanoscience and nanotechnology for micro and nanosystems

Entity where project took place: Donostia
International Physics Center

Type of entity: Foundation

City of entity: San Sebastian, Basque Country, Spain

Name principal investigator (PI, Co-PI....): Pedro Miguel Echenique

Funding entity or bodies:

Etortek program of the Basque Government

Type of entity: State agency

City funding entity: Bilbao, Basque Country, Spain

Start-End date: 01/12/2005 - 01/12/2007

Total amount: 370.052 €

31 Name of the project: (IP) Ikerbasque Starting Package

Entity where project took place: Donostia
International Physics Center

Type of entity: Fundacion

City of entity: San Sebastian, Basque Country, Spain

Name principal investigator (PI, Co-PI....): Aitzol Garcia Etxarri

N° of researchers: 1

Start date: 01/11/2019

Total amount: 10.000 €

Results

Industrial and intellectual property

Title registered industrial property: Enantioselective destruction of chiral molecules (Patent Nr.: US 10,611,752)

Inventors/authors/obtainers: Chi-Sing Ho; Jennifer Anne Dionne; Aitzol Imanol Garcia Echarri

Entity holder of rights: Stanford University

N° of application: US20170253538A1

Country of inscription: United States of America

Date of register: 01/03/2017

Conferral date: 07/04/2020

Operating aut.region/region: United States of America



Scientific and technological activities

Scientific production

H index: 31

Date of application: 04/09/2023

Fuente de Índice H: GOOGLE SCHOLAR

Publications, scientific and technical documents

- 1** C Devescovi A Morales-Pérez Y Hwang; M García-Díez I Robredo JL Mañes B Bradlyn; A Garcia-Etxarri M G Vergniory. Axion Topology in Photonic Crystal Domain Walls. ArXiv preprint arXiv:2305.19805. 2023.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 2** Olmos-Trigo J. Lasa-Alonso J. Gómez-Viloria; I. Molina-Terriza G. García-Etxarri A.. Capturing near-field circular dichroism enhancements from far-field measurements. ArXiv preprint arXiv:2301.01248. 2023.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 3** Jon Lasa-Alonso Chiara Devescovi Carlos Maciel-E. Characterizing cylindrical particles upon local measurements of two Stokes parameters. ArXiv preprint arXiv:2304.02762. 2023.
Type of production: Scientific paper **Format:** Journal
- 4** E. Goerlitzer, M. Zapata, E. Ponomareva, D. Feller, A. Garcia-Etxarri, M. Karg, J. Aizpurua, N. Voge. Molecular-Induced Chirality Transfer to Plasmonic Lattice Modes. ACS Photonics. (in press), ACS, 2023.
Type of production: Scientific paper **Format:** Journal
- 5** Jon Lasa-Alonso Chiara Devescovi Carlos Maciel-E. On the origin of the Kerker phenomena. ArXiv preprint arXiv:2306.12762. 2023.
Type of production: Scientific paper **Format:** Journal
- 6** Olmos-Trigo J. Sanz-Fernández C. Abujetas D.. Optical mirages from spinless beams. ACS Photonics. 10 - 6, pp. 1742 - 1747. ACS, 2023.
Type of production: Scientific paper **Format:** Journal
- 7** Jon Lasa-Alonso Chiara Devescovi Carlos Maciel-E. Resonant helicity mixing of electromagnetic waves propagating through matter. Physical Review Research. 5 - 2, pp. 023116. APS, 2023.
Type of production: Scientific paper **Format:** Journal
- 8** C Devescovi A Morales-Pérez Y Hwang; M García-Díez I Robredo JL Mañes B Bradlyn; A Garcia-Etxarri M G Vergniory. Transversality-Enforced Tight-Binding Model for 3D Photonic Crystals aided by Topological Quantum Chemistry. ArXiv preprint arXiv:2305.18257. 2023.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes



- 9** Clarice D. Aiello, Muneer Abbas, John M. Abendroth, Andrei Afanasev, Shivang Agarwal, Amartya S. Ban. A chirality-based quantum leap: A forward-looking review. *ACS Nano*. ACS, 2022.
Type of production: Scientific paper **Format:** Journal
- 10** M. A. Herrera; S. N. Kempkes; M. Blanco de Paz; A. Garcia-Etxarri; A. Swart; C. Morais; D. Bercioux. Corner modes of the breathing kagome lattice: origin and robustness. *Physical Review B*. APS, 2022.
Type of production: Scientific paper **Format:** Journal
- 11** J. Lasa-Alonso, J. Olmos-Trigo, A. García-Etxarri, and G. Molina-Terriza. Correlations between helicity and optical losses within general electromagnetic scattering theory. *Materials Advances*. 3, pp. 4179 - 4185. 2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 12** María Blanco de Paz, MAJ Herrera, Paloma Arroyo-Huidobro, Hadiseh Alaeian, MG Vergniory, B Bradlyn,. Energy density as a probe of band representations in photonic crystals. *Energy density as a probe of band representations in photonic crystals*. 34 - 31, pp. 314002. 2022.
Type of production: Scientific paper
Corresponding author: Yes
- 13** Ruben Hermans; Matteo Parente; Aitzol Garcia Etxarri; Andrea Baldi. On the Optical Properties of Colloidal Silver Nanowires. *The Journal of Physical Chemistry C*. 126 - 20, pp. 8703 - 8709. 2022.
Type of production: Scientific paper **Format:** Journal
- 14** C. Devescovi, M. García-Díez, B. Bradlyn, J. L. Mañes, M. G. Vergniory and Aitzol García-Etxarri. Vectorial Bulk-Boundary Correspondence for 3D Photonic Chern Insulators. *Advanced Optical Materials*. 10, pp. 2200475. 2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 15** Chiara Devescovi; Mikel Gacia-Diez; Iñigo Robredo; Maria blanco de Paz; Jon Lasa Alonso; Barry Bradlyn; Juan Luis Mañes; Maia G. Vergniory; Aitzol Garcia-Etxarri. Cubic 3D Chern photonic insulators with orientable large Chern vectors. *Nature Communications*. 12 - 1, pp. 1 - 12. NPG, 2021.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 16** Matthew Proctor; Maria Blanco de Paz; Dario Bercioux; Aitzol Garcia Etxarri; Paloma Arroyo Hudobro. Higher-order topology in plasmonic Kagome lattices. *Applied Physics Letters*. 118 - 9, pp. 091105. 2021.
Type of production: Scientific paper
- 17** Aitzol Garcia Etxarri; Rafael Yuste. Perspective: Time for nanoneuro. *Nature Methods*. NPG, 2021.
Type of production: Scientific paper
Corresponding author: Yes
- 18** Jorge Olmos Trigo; Cristin Sanz Fernandez; Diego Romero Abujetas; Jon Lasa Alonso; Nuno de Sousa; Aitzol Garcia Etxarri; Jose Antonio Sanchez Gil; Gabriel Molina Terriza; Juan Jose Saenz. Kerker Conditions Upon Lossless, Absorption, and Optical Gain Regimes. *Physical Review Letters*. 125, pp. 073205. APS, 2020.
Type of production: Scientific paper
- 19** Matthew Proctor; Paloma Arroyo Huidobro; Barry Bradlyn; Maria Blanco de Paz; Maia Garcia Vergniory; Dario Bercioux; Aitzol Garcia Etxarri. Robustness of topological corner modes in photonic crystals. *Physical Review Research*. 2 - 4, pp. 042038. 2020.
Type of production: Scientific paper

Corresponding author: Yes

- 20** Jon Lasa Alonso; Diego Romero Abujetas; Alvaro Nodar; Jennifer Dionne; Juan Jose Saenz; Gabriel Molina Terriza; Javier Aizpurua; Aitzol Garcia Etxarri. Surface-Enhanced Circular Dichroism spectroscopy on periodic dual nanostructures. ACS Photonics. 7 - 11, pp. 2978. ACS, 2020.
Type of production: Scientific paper
Corresponding author: Yes
- 21** Jon Lasa Alonso; Miguel Molezuelas; J.J. Varga; Aitzol Garcia Etxarri; Geza Giedke; Gabriel Molina Terriza. Symmetry-protection of multiphoton states of light. New Journal of Physics. 22 - 12, pp. 123010. 2020.
Type of production: Scientific paper
- 22** Maria Blanco de Paz; Chiara Devescovy; Geza Giedke; Juan Jose Saenz; Maia Garcia Vergniory; Barry Bradlyn; Dario Bercioux; Aitzol Garcia-Etxarri. Tutorial: Computing topological invariants in two-dimensional photonic crystals. Advanced quantum technologies. 3 - 2, pp. 1900117. Wiley, 2020.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 23** Maria Blanco de Paz; Maia G Vergniory; Dario Bercioux; Aitzol Garcia-Etxarri; Barry Bradlyn. Engineering Fragile Topology in Photonic Crystals: Topological Quantum Chemistry of Light. Physical Review Research. APS, 2019.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 24** Jorge Olmos-Trigo; Cristina Sanz-Fernandez; Aitzol Garcaa-Etxarri; Gabriel Molina-Terriza; F Sebastian Bergeret; Juan Jose Saenz. Enhanced spin-orbit optical mirages from dual nanospheres. Physical Review A. 99 - 1, pp. 013852 - 013852. American Physical Society, 2019.
Type of production: Scientific paper **Format:** Journal
- 25** Aitzol Garcia-Etxarri; Jesus Maria Ugalde; Juan Jose Saenz; Vladimiro Mujica. Field-Mediated Chirality Information Transfer in Molecule-Nanoparticle Hybrids. The Journal of Physical Chemistry C. ACS, 2019.
Type of production: Scientific paper **Format:** Journal
- 26** Lisa V Poulikakos; Jennifer A Dionne; Aitzol Garcia-Etxarri. Optical Helicity and Optical Chirality in Free Space and in the Presence of Matter. Symmetry. 11 - 9, pp. 1113 - 1113. Multidisciplinary Digital Publishing Institute, 2019.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 27** Jorge Olmos-Trigo; Cristina Sanz-Fernandez; Diego Romero Abujetas; Aitzol Garcia-Etxarri; Gabriel Molina-Terriza; Jose Sanchez-Gil; Sebastian F Bergeret; Juan Jose Saenz. Role of the absorption on the spin-orbit interactions of light with Si nano-particles. Journal of Applied Physics. 126, pp. 033104. AIP, 2019.
Type of production: Scientific paper **Format:** Journal
- 28** Di M. Wu; Michelle L. Solomon; Gururaj V. Naik; Aitzol Garcia-Etxarri; Mark Lawrence; Alberto Salleo; Jennifer A. Dionne. Chemically Responsive Elastomers Exhibiting Unity-Order Refractive Index Modulation. Advanced Materials. pp. 1703912 - n/a. 2018. Available on-line at: <<http://dx.doi.org/10.1002/adma.201703912>>. ISSN 1521-4095
Type of production: Scientific paper **Format:** Journal
- 29** Michelle L Solomon; Jack Hu; Mark Lawrence; Aitzol Garcia-Etxarri; Jennifer A Dionne. Enantiospecific optical enhancement of chiral sensing and separation with dielectric metasurfaces. ACS Photonics. 6 - 1, pp. 43 - 49. American Chemical Society, 2018.
Type of production: Scientific paper **Format:** Journal



- 30** Chi-Shing Ho; Aitzol Garcia Etxarri; Yang Zhao; Jennifer A. Dionne. Enhancing Enantioselective Absorption Using Dielectric Nanospheres. ACS Photonics. 4 - 2, pp. 197 - 203. ACS, 2017. Available on-line at: <DOI: 10.1021/acsp Photonics.6b00701>.
Type of production: Scientific paper **Format:** Journal
- 31** Aitzol Garcia-Etxarri. Optical Polarization Möbius Strips on All-Dielectric Optical Scatterers. ACS Photonics. 4 - 5, pp. 1159 - 1164. ACS, 2017.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 32** Jonathan Scholl; Aitzol Garcia-Etxarri; Garikoitz Aguirregabiria; Ruben Esteban; Tarun Narayan; Ai Leen Kho; Javier Aizpurua; Jennifer Dionne. Evolution of Plasmonic Metamolecule Modes in the Quantum Tunneling Regime. ACS nano. 10 - 1, pp. 1346 - 1354. 2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 33** Tomas Neuman; Pablo Alonso Gonzalez; Aitzol Garcia Etxarri; Martin Schnell; Rainer Hillenbrand; Javier Aizpurua. Mapping the near fields of plasmonic nanoantennas by scattering-type Scanning Near-field Optical Microscopy. Laser & Photonics Reviews. 9 - (6), pp. 637 - 649. WILEY-VCH, 2015.
Type of production: Scientific paper **Format:** Journal
- 34** Ashwin Atre; Benjamin Brenny; Toon Coenen; Aitzol Garcia Etxarri; Albert Polman; Jennifer Dionne. Nanoscale optical tomography with cathodoluminescence spectroscopy. Nature Nanotechnology. 10, pp. 429 - 436. Nature Publishing Group, 2015.
Type of production: Scientific paper **Format:** Journal
- 35** David Schoen; Ashwin Atre; Aitzol Garcia Etxarri; Jennifer Dionne; Mark Brongersma. Probing Complex Reflection Coefficients in One Dimensional Surface Plasmon Polariton Waveguides and Cavities using STEM EELS. Nano Letters. 15 - 1, pp. 120 - 126. American Chemical Society, 2015.
Type of production: Scientific paper **Format:** Journal
- 36** Justin Briggs; Di Wu; Ashwin Atre; Aitzol Garcia Etxarri; Jennifer Dionne. Upconversion for enhanced photovoltaics. PHYSICS OF SUSTAINABLE ENERGY III. 1652, pp. 33 - 43. AIP Publishing, 2015.
Type of production: Scientific paper **Format:** Journal
- 37** Di Wu; Aitzol Garcia Etxarri; Alberto Salleo; Jennifer Dionne. Plasmon-enhanced upconversion. The Journal of Physical Chemistry Letters. 5 - 22, pp. 4020 - 4031. American Chemical Society, 2014.
Type of production: Scientific paper **Format:** Journal
- 38** Ashwin C Atre; Aitzol Garcia-Etxarri; Hadiseh Alaeian; Jennifer A Dionne. A Broadband Negative Index Metamaterial at Optical Frequencies. Advanced Optical Materials. 1 - 4, pp. 327 - 333. 2013.
Type of production: Scientific paper **Format:** Journal
- 39** Jonathan A Scholl; Aitzol Garcia-Etxarri; Ai Leen Koh; Jennifer A Dionne. Observation of quantum tunneling between two plasmonic nanoparticles. Nano letters. 13 - 2, pp. 564 - 569. 2013.
Type of production: Scientific paper **Format:** Journal
- 40** Aitzol Garcia-Etxarri; Jennifer A Dionne. Surface enhanced circular dichroism spectroscopy mediated by non-chiral nanoantennas. Physical Review B. 87, pp. 235409 - 235409. 2013.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes



- 41** Aitzol Garcia-Etxarri; Peter Apell; Mikael Käll; Javier Aizpurua. A combination of concave/convex surfaces for field-enhancement optimization: the indented nanocone. *Optics Express*. 20 - 23, pp. 25201 - 25212. 2012.
Type of production: Scientific paper **Format:** Journal
- 42** Pablo Alonso-Gonzalez; Pablo Albella; Martin Schnell; Jianing Chen; F Huth; A Garcia-Etxarri; F Casanova; F Golmar; L Arzubiaga; L E Hueso; Javier Aizpurua; Rainer Hillenbrand. Resolving the electromagnetic mechanism of surface-enhanced light scattering at single hot spots. *Nature communications*. 3, pp. 684 - 684. 2012.
Type of production: Scientific paper **Format:** Journal
- 43** Ashwin C Atre; Aitzol Garcia-Etxarri; Hadiseh Alaeian; Jennifer A Dionne. Toward high-efficiency solar upconversion with plasmonic nanostructures. *Journal of Optics*. 14 - 2, pp. 024008 - 024008. 2012.
Type of production: Scientific paper **Format:** Journal
- 44** Sassan Sheikholeslami; Aitzol Garcia-Etxarri; Jennifer A Dionne. Controlling the interplay of electric and magnetic modes via Fano-like plasmon resonances. *Nano letters*. 11 - 9, pp. 3927 - 3934. 2011.
Type of production: Scientific paper **Format:** Journal
- 45** Aitzol Garcia-Etxarri; R Gomez-Medina; Luis S Froufe-Perez; C Lopez; L Chantada; F Scheffold; J Aizpurua; M Nieto-Vesperinas; J J Saenz. Strong magnetic response of submicron Silicon particles in the infrared. *Optics Express*. 19 - 6, pp. 4815 - 4826. 2011.
Type of production: Scientific paper **Format:** Journal
- 46** Ryan D Artuso; Garnett W Bryant; Aitzol Garcia-Etxarri; Javier Aizpurua. Using local fields to tailor hybrid quantum-dot/metal nanoparticle systems. *Physical Review B*. 83 - 23, pp. 235406 - 235406. 2011.
Type of production: Scientific paper **Format:** Journal
- 47** Martin Schnell; Aitzol Garcia-Etxarri; Andreas J Huber; Kenneth B Crozier; Andrei Borisov; Javier Aizpurua; Rainer Hillenbrand. Amplitude-and Phase-Resolved Near-Field Mapping of Infrared Antenna Modes by Transmission-Mode Scattering-Type Near-Field Microscopy. *The Journal of Physical Chemistry C*. 114 - 16, pp. 7341 - 7345. 2010.
Type of production: Scientific paper **Format:** Journal
- 48** Aitzol Garcia-Etxarri; Javier Aizpurua; Jon Molina-Aldareguia; Rebeca Marcilla; Jose Adolfo Pomposo; David Mecerreyes. Chemical sensing based on the plasmonic response of nanoparticle aggregation: anion sensing in nanoparticles stabilized by amino-functional ionic liquid. *Frontiers of Physics in China*. 5 - 3, pp. 330 - 336. 2010.
Type of production: Scientific paper **Format:** Journal
- 49** Frank Neubrech; Aitzol Garcia-Etxarri; Daniel Weber; J Bochterle; H Shen; M Lamy de La Chapelle; G W Bryant; J Aizpurua; A Pucci. Defect-induced activation of symmetry forbidden infrared resonances in individual metallic nanorods. *Applied Physics Letters*. 96 - 21, pp. 213111 - 213111. 2010.
Type of production: Scientific paper **Format:** Journal
- 50** Mohamed Ameen; Aitzol Garcia-Etxarri; Martin Schnell; Rainer Hillenbrand; Javier Aizpurua. Infrared phononic nanoantennas: Localized surface phonon polaritons in SiC disks. *Chinese Science Bulletin*. 55 - 24, pp. 2625 - 2628. 2010.
Type of production: Scientific paper **Format:** Journal
- 51** M Schnell; A Garcia-Etxarri; J Alkorta; J Aizpurua; R Hillenbrand. Phase-resolved mapping of the near-field vector and polarization state in nanoscale antenna gaps. *Nano letters*. 10 - 9, pp. 3524 - 3528. 2010.
Type of production: Scientific paper **Format:** Journal



- 52** M Schnell; A Garcia-Etxarri; A J Huber; K Crozier; J Aizpurua; R Hillenbrand. Controlling the near-field oscillations of loaded plasmonic nanoantennas. *Nature Photonics*. 3 - 5, pp. 287 - 291. 2009.
Type of production: Scientific paper **Format:** Journal
- 53** Aitzol Garcia-Etxarri; Isabel Romero; F Javier Garcia de Abajo; Rainer Hillenbrand; Javier Aizpurua. Influence of the tip in near-field imaging of nanoparticle plasmonic modes: Weak and strong coupling regimes. *Physical Review B*. 79 - 12, pp. 125439 - 125439. 2009.
Type of production: Scientific paper **Format:** Journal
- 54** Frank Neubrech; Annemarie Pucci; Thomas Walter Cornelius; Shafqat Karim; Aitzol Garcia-Etxarri; Javier Aizpurua. Resonant plasmonic and vibrational coupling in a tailored nanoantenna for infrared detection. *Physical Review Letters*. 101, pp. 157403 - 157403. 2008.
Type of production: Scientific paper **Format:** Journal
- 55** G Vaschenko; A Garcia Etxarri; C S Menoni; J J Rocca; O Hemberg; S Bloom; W Chao; E H Anderson; D T Attwood; Y Lu; B Parkinson. Nanometer-scale ablation with a table-top soft x-ray laser. *Optics letters*. 31 - 24, pp. 3615 - 3617. 2006.
Type of production: Scientific paper **Format:** Journal

Works submitted to national or international conferences

- 1** **Title of the work:** 3D Topological photonics
Name of the conference: CLEO 2024
City of event: Charlotte, North Carolina, United States of America
Date of event: 05/05/2024
End date: 10/05/2024
- 2** **Title of the work:** 3D Topological Photonics
Name of the conference: 5th International Lecture Series on Nanophotonics / LMU
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Munich, Germany
Date of event: 25/10/2023
End date: 25/10/2023
Organising entity: Faculty of Physics/Ludwig-Maximilians University Munich - LMU **Type of entity:** University
City organizing entity: Munich, Germany
Aitzol Garcia-ETxarri.
- 3** **Title of the work:** nanoneuro: the power of nanoscience to explore the frontiers of neuroscience
Name of the conference: Desafíos tecnológicos de la neurociencia y su dimensión ética
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Santander, Cantabria, Spain
Date of event: 26/06/2023
End date: 30/06/2023
Organising entity: Universidad Internacional Menéndez Pelayo **Type of entity:** University
City organizing entity: Santander, Cantabria, Spain
Aitzol Garcia-Etxarri.



- 4** **Title of the work:** ¿Existen fronteras biológicas, tecnológicas o éticas para la ingeniería aplicada al cerebro? (Round Table)
Name of the conference: Desafíos tecnológicos de la neurociencia y su dimensión ética
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Santander, Cantabria, Spain
Date of event: 26/06/2023
End date: 30/06/2023
Organising entity: Universidad Internacional Menéndez Pelayo **Type of entity:** University
City organizing entity: Santander, Cantabria, Spain
Aitzol Garcia-Etxarri.
- 5** **Title of the work:** The influence of MoLE in my research
Name of the conference: Dinamo 2023
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Svolvær, Lofoten Islands, Norway
Date of event: 11/06/2023
End date: 16/06/2023
Organising entity: Norwegian University of Science and Technology **Type of entity:** University
City organizing entity: Oslo, Norway
Aitzol Garcia-Etxarri.
- 6** **Title of the work:** nanoneuro: the power of nanoscience to explore the frontiers of neuroscience
Name of the conference: Dinamo 2023
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Svolvær, Lofoten Islands, Norway
Date of event: 11/06/2023
End date: 16/06/2023
Organising entity: Norwegian University of Science and Technology **Type of entity:** University
City organizing entity: Oslo, Norway
Aitzol Garcia-Etxarri.
- 7** **Title of the work:** nanoneuro: the power of nanoscience to explore the frontiers of neuroscience
Name of the conference: IFIMAC Seminar series
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Madrid, Community of Madrid, Spain
Date of event: 20/05/2023
End date: 20/05/2023
Organising entity: Universidad Autónoma de Madrid **Type of entity:** University
City organizing entity: MADRID, Community of Madrid, Spain
Aitzol Garcia-Etxarri.



- 8** **Title of the work:** nanoneuro: the power of nanoscience to explore the frontiers of neuroscience
Name of the conference: ITEE Seminar series
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Madrid, Community of Madrid, Spain
Date of event: 03/05/2023
End date: 03/05/2023
Organising entity: UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II
City organizing entity: Napoles, Italy
 Aitzol Garcia-Etxarri.
- 9** **Title of the work:** 3D Topological Photonics
Name of the conference: The Foremost Photonics 2022
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Erice, Sicily, Italy
Date of event: 10/10/2022
End date: 14/10/2022
Organising entity: Universita degli study Firenze
- 10** **Title of the work:** 3D Topological Photonics
Name of the conference: European Optical Society Annual meeting (EOSAM) 2022
Type of event: Conference
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Porto, Portugal
Date of event: 12/09/2022
End date: 17/09/2022
Organising entity: European optical society
 Aitzol Garcia-Etxarri.
- 11** **Title of the work:** Discussion Leader
Name of the conference: Gordon Conference on Plasmonics 2022
Type of event: Conference
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: Newry, ME, United States of America
Date of event: 10/07/2022
End date: 15/07/2022
Organising entity: GRC
 Aitzol Garcia-Etxarri.
- 12** **Title of the work:** Light matter interactions at the nanoscale
Name of the conference: DIPC community seminar series
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Donostia, Basque Country, Spain
Date of event: 23/06/2022
End date: 23/06/2022

Type of entity: Fundacion



Organising entity: Donostia International Physics Center

City organizing entity: Donostia, Basque Country, Spain
Aitzol Garcia-Etxarri.

- 13** **Title of the work:** Chiral and topological photonics
Name of the conference: Nanolight 2022
Reasons for participation: Upon invitation
Corresponding author: Yes
Date of event: 06/03/2022
End date: 12/03/2022
Organising entity: FUNDACION CENTRO DE CIENCIAS DE BENASQUE
- 14** **Title of the work:** Cubic 3D Chern photonic insulators with orientable large Chern vectors
Name of the conference: CEN2021
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Online, Spain
Date of event: 20/09/2021
End date: 22/09/2021
Organising entity: Universidade de Vigo **Type of entity:** University
City organizing entity: Vigo, Galicia, Spain
- 15** **Title of the work:** Interacciones quirales entre luz y materia mediadas por antenas ópticas
Name of the conference: URSI 2021
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Online, Spain
Date of event: 20/09/2021
End date: 24/09/2021
Organising entity: Unión Científica Internacional de Radio **Type of entity:** Associations and Groups
- 16** **Title of the work:** Cubic 3D Chern photonic insulators with orientable large Chern vectors
Name of the conference: TOCHA Workshop
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Online,
Date of event: 31/08/2021
End date: 01/09/2021
Organising entity: ICN2
City organizing entity: Barcelona, Spain
- 17** **Title of the work:** Tutorial: Computing topological invariants in 2D photonic crystals
Name of the conference: TOCHA Workshop
Type of participation: Participatory - invited/keynote talk
Corresponding author: Yes
City of event: Online,
Date of event: 31/08/2021
End date: 01/09/2021
Organising entity: ICN2



City organizing entity: Barcelona, Spain

- 18 Title of the work:** Topological Photonics: Mistaken Paradigms and new opportunities
Name of the conference: META 2021
Type of participation: Participatory - invited/keynote talk
City of event: Online, Poland
Date of event: 20/07/2021
End date: 23/07/2021
Organising entity: University of Warsaw
City organizing entity: Warsaw, Poland
A. Garcia-Etxarri.
- 19 Title of the work:** Chiral light matter interactions at the nanoscale
Name of the conference: Online summer conference on chiral plasmonics
Type of event: Conference
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Online, Republic of Korea
Date of event: 08/07/2020
End date: 09/07/2020
Organising entity: Seoul National University
City organizing entity: Seoul, Republic of Korea
- 20 Title of the work:** Topological Photonics: Mistaken Paradigms and New Opportunities
Name of the conference: Plasmonica 2019
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Napoles, Italy
Date of event: 19/06/2019
End date: 21/06/2019
Organising entity: Universidad de Napoles **Type of entity:** University
City organizing entity: Roma, Italy
- 21 Title of the work:** Topological Photonics: Mistaken Paradigms and New Opportunities
Name of the conference: PIERS 2019
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Roma, Italy
Date of event: 17/06/2019
End date: 20/06/2019
Organising entity: PIERS **Type of entity:** Associations and Groups
City organizing entity: Roma, Italy
- 22 Title of the work:** Chiral light matter interactions at the nanoscale
Name of the conference: International School on Plasmonics, Magnetoplasmonics and Applications (ISPMA)
Type of event: Conference
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Bogotá, Colombia
Date of event: 29/04/2019



End date: 03/05/2019

Organising entity: Universidad Distrital Francisco José de Caldas

City organizing entity: Bogota, Colombia

- 23 Title of the work:** Optical Antennas
Name of the conference: International School on Plasmonics, Magnetoplasmonics and Applications (ISPMA)
Type of event: Conference
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Bogota, Colombia
Date of event: 29/04/2019
End date: 03/05/2019
Organising entity: Universidad Distrital Francisco José de Caldas
City organizing entity: Bogota, Colombia

- 24 Title of the work:** Topological photonics: Mistaken paradigms and new opportunities
Name of the conference: International School on Plasmonics, Magnetoplasmonics and Applications (ISPMA)
Type of event: Conference
Type of participation: Participatory - Plenary session **Reasons for participation:** Upon invitation
City of event: Bogota, Colombia
Date of event: 29/04/2019
End date: 03/05/2019
Organising entity: Universidad Distrital **Type of entity:** University
City organizing entity: Bogota, Colombia

- 25 Title of the work:** Topological Photonics: Mistaken Paradigms and New Opportunities
Name of the conference: DINAMO2019
Type of event: Conference
Type of participation: Participatory - oral communication **Reasons for participation:** Review before acceptance
City of event: Galapagos, Ecuador
Date of event: 22/04/2019
End date: 26/04/2019
Organising entity: Universidad San Francisco de Quito **Type of entity:** University
City organizing entity: Quito, Ecuador

- 26 Title of the work:** All-dielectric optical antennas as enablers of chiral and topological applications
Name of the conference: Seminario Invitado
Type of event: Seminar
Type of participation: Participatory - Plenary session **Reasons for participation:** Upon invitation
City of event: New York, United States of America
Date of event: 20/11/2018
End date: 20/11/2018
Organising entity: CUNY **Type of entity:** University
City organizing entity: New York, United States of America



- 27** **Title of the work:** Chiral and topological light matter interactions on all-dielectric dual periodic nanoparticle arrays
Name of the conference: International Symposium on Nanophotonics and Metamaterials
Type of event: Conference
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: San Petersburgo, Russia
Date of event: 02/06/2018
End date: 04/06/2018
Organising entity: ITMO University **Type of entity:** University
City organizing entity: San Petersburgo, Russia
Aitzol Garcia Etxarri.
- 28** **Title of the work:** Optical vortices and polarization Möbius strips on all-dielectric optical antennas
Name of the conference: 2018 MRS Spring Meeting
Type of event: Conference
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Phoenix, Arizona, United States of America
Date of event: 02/04/2018
End date: 06/04/2018
Organising entity: Materials Research Society **Type of entity:** Associations and Groups
Aitzol Garcia Etxarri.
- 29** **Title of the work:** Optical vortices and polarization Möbius strips on all-dielectric optical antennas
Name of the conference: LIMAGE Workshop
Type of event: Conference
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: San Sebastian, Basque Country, Spain
Date of event: 07/02/2018
End date: 07/09/2018
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion
Aitzol Garcia Etxarri.
- 30** **Title of the work:** Optical spirals and Möbius strips on all-dielectric optical antennas
Name of the conference: NANOP2017
Corresponding author: Yes
City of event: Barcelona, Catalonia, Spain
Date of event: 13/09/2017
End date: 15/09/2017
Organising entity: PremC **Type of entity:** Associations and Groups
City organizing entity: Fontenay aux Roses, France
- 31** **Title of the work:** Optical spirals and Möbius strips on all-dielectric optical nanoantennas
Name of the conference: Complex nanophotonics science camp
Corresponding author: Yes
City of event: Windsor, United Kingdom



Date of event: 25/07/2017

End date: 28/07/2018

Organising entity: King's College

Type of entity: University

City organizing entity: Londres, United Kingdom

32 Title of the work: Toroids, spirals and Möbius strips of light

Name of the conference: Dinamo 2017

Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk

Corresponding author: Yes

City of event: Siglufjordur, Iceland

Date of event: 14/05/2017

End date: 19/05/2017

Organising entity: Innovation Center Iceland

Type of entity: R&D Centre

City organizing entity: Reykjavík, Iceland

Aitzol Garcia Etxarri.

33 Title of the work: Polarization singularities on high index nanoparticles

Name of the conference: META'16

Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk

Corresponding author: Yes

City of event: Torremolinos, Andalusia, Spain

Date of event: 25/07/2016

End date: 28/07/2016

Organising entity: LGEP-SUPELEC

Type of entity: R&D Centre

City organizing entity: Gif-sur-Yvette Cedex, France

Aitzol Garcia-Etxarri.

34 Title of the work: Surface enhanced circular dichroism spectroscopy mediated by non-chiral high index dielectric nanoantennas

Name of the conference: ICES2015

Type of participation: Participatory - oral communication

City of event: Messina, Sicilia, Italy

Date of event: 12/10/2015

End date: 15/10/2015

Organising entity: CNR - Istituto Processi Chimico-Fisici

Type of entity: State agency

City organizing entity: Messina, Italy

Aitzol Garcia-Etxarri; Jennifer Dionne.

35 Title of the work: Plasmonic Meta-Molecules in the Quantum Tunneling Regime

Name of the conference: META'15

Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk

Corresponding author: Yes

City of event: New York, United States of America

Date of event: 04/08/2015

End date: 07/08/2015

Organising entity: LGEP-SUPELEC

City organizing entity: Gif-sur-Yvette Cedex, France



Aitzol Garcia Etxarri; Jonathan Scholl; Garikoitz Aguirregabiria; Ruben Esteban; Tarun Narayan; Hadiseh Alaeian; Javier Aizpurua; Jennifer Dionne.

- 36** **Title of the work:** Plasmonic Meta-Molecules in the Quantum Tunneling Regime
Name of the conference: SPP7
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Jerusalem, Israel
Date of event: 31/05/2015
End date: 05/06/2015
Organising entity: The Hebrew University of Jerusalem
Type of entity: University
City organizing entity: Jerusalem, Israel
Aitzol Garcia Etxarri; Jonathan Scholl; Garikoitz Aguirregabiria; Ruben Esteban; Tarun Narayan; Hadiseh Alaeian; Javier Aizpurua; Jennifer Dionne.
- 37** **Title of the work:** Investigating catalytic reactions & light-matter interactions with nanometer-scale resolution
Name of the conference: SPIE Optics + Photonics
Type of participation: Participatory - invited/keynote **Reasons for participation:** Representing talk
City of event: San Diego, United States of America
Date of event: 17/08/2014
End date: 21/08/2014
Organising entity: SPIE
Aitzol Garcia Etxarri; Jennifer Dionne; Andrea Baldi; Tarun Narayan; Ai Leen Koh; Ashwin Atre; Ben Brenny; Toon Coenen; Albert Polman.
- 38** **Title of the work:** Parity-time symmetric plasmonic metamaterials
Name of the conference: META'14
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Singapore, Singapore
Date of event: 20/05/2014
End date: 23/05/2014
Organising entity: LGEP-SUPELEC
Type of entity: R&D Centre
City organizing entity: Gif-sur-Yvette Cedex, France
Aitzol Garcia-Etxarri; Hadiseh Alaeian; Brian Baum; Jennifer Dionne.
- 39** **Title of the work:** Surface enhanced circular dichroism spectroscopy mediated by non-chiral high index dielectric nanoantennas
Name of the conference: META'14
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Singapore, Singapore
Date of event: 20/05/2014
End date: 23/05/2014
Organising entity: LGEP-SUPELEC
Type of entity: R&D Centre
City organizing entity: Gif-sur-Yvette Cedex, France
Aitzol Garcia-Etxarri; Jennifer Dionne.



- 40** **Title of the work:** Quantum Plasmons and Magnetic Metafluids
Name of the conference: CLEO: QELS Fundamental Science
Type of participation: Participatory - invited/keynote talk
City of event: San Jose, CA, United States of America
Date of event: 09/06/2013
End date: 14/06/2013
Organising entity: Optical Society of America
City organizing entity: Washington, DC, United States of America
Jennifer A. Dionne; Jonathan Scholl; Aitzol Garcia-Etxarri; Sassan Sheikholeslami; Hadiseh Alaeian; Ashwin Atre; Ai Leen Koh.
- 41** **Title of the work:** Observation of Quantum Tunneling between Two Plasmonic Nanoparticles
Name of the conference: MRS Spring Meeting 2013
Type of participation: Participatory - oral communication
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:** Associations and Groups
City organizing entity: Warrendale, PA, United States of America
Jonathan Scholl; Aitzol Garcia-Etxarri; Ai Leen Koh; Jennifer A. Dionne.
- 42** **Title of the work:** Probing Complex Reflectivity with STEM EELS
Name of the conference: MRS Spring Meeting 2013
Type of participation: Participatory - oral communication
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:** Associations and Groups
City organizing entity: Warrendale, PA, United States of America
David T. Schoen; Ashwin Atre; Aitzol Garcia-Etxarri; Jennifer A. Dionne; Mark L. Brongersma.
- 43** **Title of the work:** Probing Visible Frequency Magnetism in a Plasmonic Nanoparticle
Name of the conference: MRS Spring Meeting 2013
Type of participation: Participatory - poster
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:** Associations and Groups
City organizing entity: Warrendale, PA, United States of America
Ashwin Atre; Aitzol Garcia-Etxarri; Toon Coenen; Benjamin Brenny; Albert Polman; Jennifer A. Dionne.
- 44** **Title of the work:** Surface enhanced circular dichroism spectroscopy mediated by non-chiral nanoantennas
Name of the conference: MRS Spring Meeting 2013
Type of participation: Participatory - poster
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:** Associations and Groups
City organizing entity: Warrendale, PA, United States of America
Aitzol Garcia-Etxarri; Jennifer A. Dionne.



- 45** **Title of the work:** Surface enhanced circular dichroism spectroscopy mediated by non-chiral nanoantennas
Name of the conference: Nanometa 2013
Type of participation: 'Participatory - poster
City of event: Seefeld, Austria
Date of event: 03/01/2013
End date: 06/01/2013
Organising entity: European Physical Society
City organizing entity: Mulhouse, France
Aitzol Garcia-Etxarri; Jennifer A. Dionne.
- 46** **Title of the work:** Superchiral near fields: 'Twisted' hot spots in optical nanoantennas
Name of the conference: Near Field Optics NFO12
Type of participation: Participatory - oral communication
City of event: San Sebastian, Basque Country, Spain
Date of event: 03/09/2012
End date: 07/09/2012
Organising entity: Donostia International Physics Center **Type of entity:** Foundation
City organizing entity: San Sebastian, Basque Country, Spain
Aitzol Garcia-Etxarri; Jennifer Dionne.
- 47** **Title of the work:** Quantitative evaluation of the electromagnetic mechanism of surface-enhanced light scattering at single hot spots
Name of the conference: Near Field Optics NFO12
Type of participation: Participatory - oral communication
City of event: San Sebastian, Spain
Date of event: 02/09/2012
End date: 07/09/2012
Organising entity: Donostia International Physics Center **Type of entity:** Foundation
City organizing entity: San Sebastian, Spain
Pablo Albella; Pablo Alonso-Gonzalez; Martin Schnell; J. Chen; Florian Huth; Aitzol Garcia-Etxarri; Felix Cassanova; Federico Golmar; Libe Arzubiaga; Luis E. Hueso; Rainer Hillenbrand; Javier Aizpurua.
- 48** **Title of the work:** Revealing the electromagnetic mechanism of coherent light scattering in a single hot spot of plasmonic antennas
Name of the conference: SPIE Optics+Photonics Conference
Type of participation: Participatory - oral communication
City of event: San Diego, United States of America
Date of event: 12/08/2012
End date: 16/08/2012
Organising entity: SPIE **Type of entity:** Associations and Groups
City organizing entity: Bellingham, WA, United States of America
Pablo Albella; Pablo Alonso-Gonzalez; Martin Schnell; J. Chen; Florian Huth; Aitzol Garcia-Etxarri; Felix Cassanova; Federico Golmar; Libe Arzubiaga; Luis E. Hueso; Rainer Hillenbrand; Javier Aizpurua.
- 49** **Title of the work:** Revealing the electromagnetic mechanism of coherent light scattering in a single hot spot of plasmonic antennas
Name of the conference: ICYRAM 2012. International Conference of Young Researchers on Advanced Materials
Type of participation: Participatory - oral communication
City of event: Singapore, Singapore



Date of event: 01/07/2012

End date: 06/07/2012

Organising entity: Materials Research Society **Type of entity:** Associations and Groups

City organizing entity: Warrendale, PA, United States of America

Pablo Alonso-Gonzalez; Pablo Albella; Martin Schnell; J. Chen; Florian Huth; Aitzol Garcia-Etxarri; Felix Cassanova; Federico Golmar; Libe Arzubiaga; Luis E. Hueso; Rainer Hillenbrand; Javier Aizpurua.

50 Title of the work: A three-dimensional negative index metamaterial designed via transformation optics

Name of the conference: Gordon Research Conference on Plasmonics 2012

Type of participation: 'Participatory - poster

City of event: Waterville, ME, United States of America

Date of event: 10/06/2012

End date: 15/06/2012

Organising entity: The Gordon Research Conferences

City organizing entity: West Kingston, RI, United States of America

Ashwin C. Atre; Aitzol Garcia-Etxarri; Hadiseh Alaeian; Jennifer A. Dionne.

51 Title of the work: Superchiral near fields: 'Twisted' hot spots in optical nanoantennas

Name of the conference: Gordon Research Conference on Plasmonics 2012

Type of participation: 'Participatory - poster

City of event: Waterville, ME, United States of America

Date of event: 10/06/2012

End date: 15/06/2012

Organising entity: The Gordon Research Conferences

City organizing entity: West Kingston, RI, United States of America

Aitzol Garcia-Etxarri; Hadiseh Alaeian; Jennifer A. Dionne.

52 Title of the work: Superchiral near fields: 'Twisted' hot spots in optical nanoantennas

Name of the conference: Gordon Kennan Research Seminar on Plasmonics 2012

Type of participation: 'Participatory - poster

City of event: Waterville, ME, United States of America

Date of event: 08/06/2012

End date: 10/06/2012

Organising entity: The Gordon Research Conferences

City organizing entity: West Kingston, RI, United States of America

Aitzol Garcia-Etxarri; Hadiseh Alaeian; Jennifer A. Dionne.

53 Title of the work: A Three-dimensional Negative Index Metamaterial Designed via Transformation Optics

Name of the conference: MRS Spring Meeting 2012

Type of participation: Participatory - oral communication

City of event: San Francisco, United States of America

Date of event: 09/04/2012

End date: 13/04/2012

Organising entity: Materials Research Society **Type of entity:** Associations and Groups

City organizing entity: Warrendale, PA, United States of America

Ashwin C. Atre; Aitzol Garcia-Etxarri; Hadiseh Alaeian; Jennifer A. Dionne.

54 Title of the work: Controlling the Interplay of Electric and Magnetic Modes in Nanoparticle Assemblies via Fano-like Plasmon Resonances

Name of the conference: MRS Spring Meeting 2012

Type of participation: Participatory - oral communication



City of event: San Francisco, United States of America

Date of event: 09/04/2012

End date: 13/04/2012

Organising entity: Materials Research Society

Type of entity: Associations and Groups

City organizing entity: Warrendale, PA, United States of America

Sassan N. Sheikholeslami; Aitzol Garcia-Etxarri; Jennifer A. Dionne.

55 Title of the work: Superchiral near fields: 'Twisted' hot spots in optical nanoantennas

Name of the conference: MRS Spring Meeting 2012

Type of participation: Participatory - oral communication

City of event: San Francisco, United States of America

Date of event: 09/04/2012

End date: 13/04/2012

Organising entity: Materials Research Society

Type of entity: Associations and Groups

City organizing entity: Warrendale, PA, United States of America

Aitzol Garcia-Etxarri; Hadiseh Alaeian; Jennifer A. Dionne.

56 Title of the work: Giving photovoltaics the green light: Plasmon-enhanced upconversion for broadband solar absorption

Name of the conference: Photonics Conference (PHO), 2011 IEEE

Type of participation: Participatory - invited/keynote talk

City of event: Arlington, VA, United States of America

Date of event: 09/10/2011

End date: 13/10/2011

Organising entity: IEEE

Type of entity: Associations and Groups

City organizing entity: Piscataway, NJ, United States of America

Jennifer A. Dionne; Ashwin C. Atre; Hadiseh Alaeian; Aitzol Garcia-Etxarri.

57 Title of the work: Near-field mapping of coupled nanoantennas

Name of the conference: SPIE Nanophotonics & Optics Conference

Type of participation: Participatory - oral communication

City of event: San Diego, United States of America

Date of event: 21/08/2011

End date: 25/08/2011

Organising entity: SPIE

Type of entity: Associations and Groups

City organizing entity: Bellingham, WA, United States of America

Pablo Alonso-Gonzalez; Pablo Albella; Martin Schnell; J. Chen; Aitzol Garcia-Etxarri; Javier Aizpurua; Rainer Hillenbrand.

58 Title of the work: Using Local Fields to Tailor Hybrid Quantum Dot-Metal Nanoparticle Systems: Connecting the Dots

Name of the conference: CLEO: 2011 - Laser Science to Photonic Applications

Type of participation: Participatory - oral communication

City of event: Baltimore, United States of America

Date of event: 01/05/2011

End date: 06/05/2011

Organising entity: Optical Society of America

City organizing entity: Washington, DC, United States of America

Garnett W. Bryant; Ryan Artuso; Aitzol Garcia-Etxarri; Javier Aizpurua.



- 59** **Title of the work:** Field enhancement and control in optical nanoantennas
Name of the conference: PIERS Conference
Type of participation: Participatory - oral communication
City of event: Marrakesh, Morocco
Date of event: 20/03/2011
End date: 23/03/2011
Organising entity: The Electromagnetics Academy
City organizing entity: Cambridge, MA, United States of America
Javier Aizpurua; Martin Schnell; Aitzol Garcia-Etxarri; J. Korta; Rainer Hillenbrand.
- 60** **Title of the work:** Engineering the Near-Field of Metallic Nanoantennas: Enhancing Possibilities in Spectroscopy and Microscopy
Name of the conference: Passion for knowledge: Passion for photons workshop
Type of participation: Participatory - poster
City of event: San Sebastian, Basque Country, Spain
Date of event: 27/09/2010
End date: 01/10/2010
Organising entity: Donostia International Physics Center **Type of entity:** Foundation Center
City organizing entity: San Sebastian, Basque Country, Spain
Aitzol Garcia-Etxarri; Javier Aizpurua.
- 61** **Title of the work:** Mapping and control of nanoscale optical vector fields
Name of the conference: Passion for knowledge: Passion for photons workshop
Type of participation: Participatory - poster
City of event: San Sebastian, Basque Country, Spain
Date of event: 27/09/2010
End date: 01/10/2010
Organising entity: Donostia International Physics Center **Type of entity:** Foundation Center
City organizing entity: San Sebastian, Basque Country, Spain
Martin Schnell; Aitzol Garcia-Etxarri; Javier Aizpurua; Rainer Hillenbrand.
- 62** **Title of the work:** Mapping and control of nanoscale optical vector fields
Name of the conference: Near Field Optics NFO11
Type of participation: Participatory - poster
City of event: Beijing, China
Date of event: 30/08/2010
End date: 02/09/2010
Organising entity: Peking University **Type of entity:** University
City organizing entity: Beijing, China
Martin Schnell; Aitzol Garcia-Etxarri; Javier Aizpurua; Rainer Hillenbrand.
- 63** **Title of the work:** Optical cascade effect for huge tip field enhancement through plasmonic intracoupling
Name of the conference: Near Field Optics NFO11
Type of participation: Participatory - oral communication
City of event: Beijing, China
Date of event: 30/08/2010
End date: 02/09/2010
Organising entity: Peking University **Type of entity:** University
City organizing entity: Beijing, China



Aitzol Garcia-Etxarri; Javier Aizpurua.

- 64** **Title of the work:** Field Enhancement and Control in Optical Nanoantennas
Name of the conference: 18th international vacuum congress
Type of participation: Participatory - invited/keynote talk
City of event: Beijing, China
Date of event: 23/08/2010
End date: 27/08/2010
Organising entity: IUVSTA
City organizing entity: Vienna, Austria
Rainer Hillenbrand; Javier Aizpurua; Aitzol Garcia-Etxarri; Nicolas Large; Martin Schnell; Martina Abb; Otto L. Muskens.
- 65** **Title of the work:** Modeling of plasmonic nanoantennas for optical microscopy and spectroscopy
Name of the conference: Gordon Research Conference on Plasmonics 2010
Type of participation: 'Participatory - poster
City of event: Waterville, ME, United States of America
Date of event: 14/06/2010
End date: 18/06/2010
Organising entity: The Gordon Research Conferences
City organizing entity: West Kingston, RI, United States of America
Aitzol Garcia-Etxarri; Javier Aizpurua.
- 66** **Title of the work:** Modeling of plasmonic nanoantennas for optical microscopy and spectroscopy
Name of the conference: Gordon Kennan Research Seminar on Plasmonics 2010
Type of participation: 'Participatory - poster
City of event: Waterville, ME, United States of America
Date of event: 12/06/2010
End date: 13/06/2010
Organising entity: The Gordon Research Conferences
City organizing entity: West Kingston, RI, United States of America
Aitzol Garcia-Etxarri; Javier Aizpurua.
- 67** **Title of the work:** Near-field imaging and tuning of plasmonic particle modes: weak and strong interacting regimes
Name of the conference: 2nd inanoGUNE Workshop
Type of participation: Participatory - oral communication
City of event: San Sebastian, Spain
Date of event: 12/12/2009
End date: 14/12/2009
Organising entity: ASOCIACION CIC NANOGUNE
City organizing entity: San Sebastian, Basque Country, Spain
Aitzol Garcia-Etxarri; Martin Schnell; Isabel Romero; Francisco Javier Garcia de Abajo; Rainer Hillenbrand; Javier Aizpurua.
- 68** **Title of the work:** Control of local near fields in optical antennas by load engineering: bridging the gap
Name of the conference: nanoICT 2009
Type of participation: 'Participatory - poster
City of event: San Sebastian, Basque Country, Spain
Date of event: 26/10/2009
End date: 30/10/2009



Organising entity: FUNDACION PHANTOMS

City organizing entity: Madrid, Community of Madrid, Spain

Martin Schnell; Aitzol Garcia-Etxarri; Andreas Huber; Ken Croazier; Javier Aizpurua; Rainer Hillenbrand.

- 69** **Title of the work:** Metallic nanoantennas for field-enhanced spectroscopy and microscopy
Name of the conference: nanolCT 2009
Type of participation: Participatory - invited/keynote talk
City of event: San Sebastian, Basque Country, Spain
Date of event: 26/10/2009
End date: 30/10/2009
Organising entity: FUNDACION PHANTOMS
City organizing entity: Madrid, Community of Madrid, Spain
Javier Aizpurua; Aitzol Garcia-Etxarri; Nicolas Large; Olalla Perez; Alejandro Reyes-Coronado.

- 70** **Title of the work:** Near-field imaging and tuning of plasmonic particle modes: weak and strong interacting regimes
Name of the conference: Nano2009
Type of participation: Participatory - poster
City of event: San Sebastian, Basque Country, Spain
Date of event: 28/09/2009
End date: 30/09/2009
Organising entity: ASOCIACION CIC NANOGUNE
City organizing entity: San Sebastian, Basque Country, Spain
Aitzol Garcia-Etxarri; Javier Aizpurua.

- 71** **Title of the work:** Near-field imaging and tuning of plasmonic particle modes: weak and strong interacting regimes
Name of the conference: Summer school on plasmonics
Type of participation: Participatory - oral communication
City of event: Porquerolles, France
Date of event: 14/09/2009
End date: 18/09/2009
Organising entity: CNRS, Institute Fresnel
Type of entity: Public Research Body
City organizing entity: Marseille, France
Aitzol Garcia-Etxarri; Isabel Romero; Francisco Javier Garcia de Abajo; Rainer Hillenbrand; Javier Aizpurua.

- 72** **Title of the work:** Near-field imaging and tuning of plasmonic particle modes: weak and strong interacting regimes
Name of the conference: Surface Plasmon Photonics SPP4
Type of participation: Participatory - oral communication
City of event: Amsterdam, Holland
Date of event: 22/06/2009
End date: 26/06/2009
Organising entity: FOM AMOLF
Type of entity: Public Research Body
City organizing entity: Amsterdam, Holland
Aitzol Garcia-Etxarri; Isabel Romero; Francisco Javier Garcia de Abajo; Rainer Hillenbrand; Javier Aizpurua.



- 73** **Title of the work:** Combining the ingredients of field enhancement: Nanospear plasmons
Name of the conference: 1st iNanoGUNE Workshop
Type of participation: 'Participatory - poster
City of event: San Sebastian, Basque Country, Spain
Date of event: 25/05/2009
End date: 26/05/2009
Organising entity: ASOCIACION CIC NANOGUNE
City organizing entity: San Sebastian, Basque Country, Spain
Aitzol Garcia-Etxarri; Javier Aizpurua.
- 74** **Title of the work:** Near-field imaging and probe-assisted nano-mechanical control of plasmonic antennas
Name of the conference: American Physical Society (APS) March Meeting 2009
Type of participation: Participatory - oral communication
City of event: Pittsburg, United States of America
Date of event: 15/03/2009
End date: 20/03/2009
Organising entity: American Physical Society
City organizing entity: College Park, MD, United States of America
Aitzol Garcia-Etxarri; Isabel Romero; Francisco Javier Garcia de Abajo; Rainer Hillenbrand; Javier Aizpurua.
- 75** **Title of the work:** Resonant plasmonic and vibrational coupling in a tailored nanoantenna for infrared detection
Name of the conference: American Physical Society (APS) March Meeting 2009
Type of participation: Participatory - oral communication
City of event: Pittsburg, United States of America
Date of event: 15/03/2009
End date: 20/03/2009
Organising entity: American Physical Society
City organizing entity: College Park, MD, United States of America
Annemarie Pucci; S. Karim; Javier Aizpurua; Aitzol Garcia-Etxarri; T. W. Cornelius; Frank Neubrech.
- 76** **Title of the work:** Control of local near fields in optical antennas by load engineering: bridging the gap
Name of the conference: NanoSpain2009
Type of participation: Participatory - oral communication
City of event: Zaragoza, Aragon, Spain
Date of event: 09/03/2009
End date: 12/03/2009
Organising entity: Nanospain **Type of entity:** Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Martin Schnell; Aitzol Garcia-Etxarri; Andreas Huber; Ken Crozier; Javier Aizpurua; Rainer Hillenbrand.
- 77** **Title of the work:** Near-field mapping of infrared antenna modes in amplitude and phase
Name of the conference: Nanometa 2009
Type of participation: 'Participatory - poster
City of event: Seefeld, Austria
Date of event: 05/01/2009
End date: 09/01/2009
Organising entity: European Physical Society
City organizing entity: Mulhouse, France



Martin Schnell; Andreas Huber; Rainer Hillenbrand; Kenneth Croazier; Aitzol Garcia-Etxarri; Javier Aizpurua.

- 78** **Title of the work:** Near-field imaging and optomechanical tuning of plasmonic nanoantennas
Name of the conference: Metamaterials 2008
Type of participation: Participatory - oral communication
City of event: Pamplona, Foral Community of Navarre, Spain
Date of event: 23/09/2008
End date: 26/09/2008
Organising entity: Universidad Pública de Navarra **Type of entity:** University
City organizing entity: Pamplona, Foral Community of Navarre, Spain
Aitzol Garcia-Etxarri; Isabel Romero; Francisco Javier Garcia de Abajo; Rainer Hillenbrand; Javier Aizpurua.
- 79** **Title of the work:** Plasmonic nanoantennas for field-enhanced infrared spectroscopy and microscopy
Name of the conference: Metamaterials 2008
Type of participation: Participatory - oral communication
City of event: Pamplona, Foral Community of Navarre, Spain
Date of event: 23/09/2008
End date: 26/09/2008
Organising entity: Universidad Pública de Navarra **Type of entity:** University
City organizing entity: Pamplona, Foral Community of Navarre, Spain
Javier Aizpurua; Aitzol Garcia-Etxarri; Thomas Taubner; Rainer Hillenbrand; Frank Neubrech; Annemarie Pucci.
- 80** **Title of the work:** Near-field imaging and optomechanical tuning of plasmonic nanoantennas
Name of the conference: Near Field Optics NFO10
Type of participation: Participatory - oral communication
City of event: Buenos Aires, Argentina
Date of event: 01/09/2008
End date: 05/09/2008
Organising entity: Universidad de Buenos Aires **Type of entity:** University
City organizing entity: Buenos Aires, Argentina
Aitzol Garcia-Etxarri; Isabel Romero; Francisco Javier Garcia de Abajo; Rainer Hillenbrand; Javier Aizpurua.
- 81** **Title of the work:** Plasmonic nanoantennas for field-enhanced infrared spectroscopy and microscopy
Name of the conference: Near Field Optics NFO10
Type of participation: Participatory - oral communication
City of event: Buenos Aires, Argentina
Date of event: 01/09/2008
End date: 01/09/2008
Organising entity: Universidad de Buenos Aires **Type of entity:** University
City organizing entity: Buenos Aires, Argentina
Javier Aizpurua; Aitzol Garcia-Etxarri; Thomas Taubner; Rainer Hillenbrand; Frank Neubrech; Annemarie Pucci.
- 82** **Title of the work:** Nanospear plasmons
Name of the conference: XIV International Summer School "Nicolas Cabrera": nano-photonics and optics
Type of participation: 'Participatory - poster
City of event: Miraflores de la Sierra, Community of Madrid, Spain



Date of event: 17/09/2007

End date: 21/09/2007

Organising entity: Universidad Autónoma de Madrid **Type of entity:** University

City organizing entity: Madrid, Community of Madrid, Spain

Aitzol Garcia Etxarri; Javier Aizpurua.

83 Title of the work: Nanospear plasmons

Name of the conference: Trends in Nanotechnology, TNT2007

Type of participation: 'Participatory - poster

City of event: San Sebastian, Basque Country, Spain

Date of event: 03/09/2007

End date: 07/09/2007

Organising entity: FUNDACION PHANTOMS

City organizing entity: Madrid, Community of Madrid, Spain

Aitzol Garcia-Etxarri; Javier Aizpurua.

84 Title of the work: Nanospear plasmons

Name of the conference: Surface Plasmon Photonics SPP3

Type of participation: 'Participatory - poster

City of event: Dijon, France

Date of event: 17/06/2007

End date: 22/06/2007

Organising entity: The Swiss Federal Institute of Technology Lausanne (EPFL)

City organizing entity: Lausanne, Switzerland

Aitzol Garcia-Etxarri; Javier Aizpurua.

85 Title of the work: Nanoparticle plasmonics for microscopy, spectroscopy and sensing

Name of the conference: Nanotron Workshop

Type of participation: Participatory - oral communication

City of event: San Sebastian, Basque Country, Spain

Date of event: 10/05/2007

End date: 10/05/2007

Organising entity: Donostia International Physics Center **Type of entity:** Foundation

City organizing entity: San Sebastian, Basque Country, Spain

Aitzol Garcia-Etxarri; Javier Aizpurua.

86 Title of the work: Plasmon response in gold nanoparticle aggregates for anion sensing

Name of the conference: Near Field Optics NFO9

Type of participation: 'Participatory - poster

City of event: Lausanne, Switzerland

Date of event: 11/09/2006

End date: 15/09/2006

Organising entity: The Swiss Federal Institute of Technology Lausanne (EPFL)

City organizing entity: Lausanne, Switzerland

Aitzol Garcia-Etxarri; Javier Aizpurua; Rebeca Marcilla; David Mecerreyes.

87 Title of the work: Plasmon response in gold nanoparticle aggregates for anion sensing

Name of the conference: Nano2006

Type of participation: 'Participatory - poster

City of event: San Sebastian, Basque Country, Spain



Date of event: 04/09/2006

End date: 06/09/2006

Organising entity: Donostia International Physics Center **Type of entity:** Foundation

City organizing entity: San Sebastian, Basque Country, Spain
Aitzol Garcia-Etxarri; Javier Aizpurua; Rebeca Marcilla; David Mecerreyes.

Other dissemination activities

- 1** **Title of the work:** Neurotecnologías, hacia la comprensión del cerebro humano
Name of the event: Ciclo Divulgativo
Type of event: Organizador
City of event: Donostia - San Sebastian, Basque Country, Spain
Date of event: 2023
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion
"https://www.youtube.com/watch?v=8HxTqvZldYA".
- 2** **Title of the work:** Seccion mensual en Euskadi Irratia (Baipasa Magazine), Años 2021-2023
Date of event: 2023
Organising entity: EITB **Type of entity:** Radio Television
- 3** **Title of the work:** Nuevos Caminos de la ciencia: "nanoneuro" (conferencia divulgativa)
Name of the event: Nuevos Caminos de la ciencia:
City of event: Donostia - San Sebastian, Basque Country, Spain
Date of event: 25/10/2022
Organising entity: Donostia Kultura
Available on-line at: <https://www.donostiakultura.eus/es/actualidad/noticias/nanoneuro-aitzol-garcia-etxarri-conferencia-2>.
- 4** **Title of the work:** Zinema eta Zientzia 2022 / Cine y Ciencia 2022 (Presentacion de la Pelicula "Inception")
Name of the event: Zinema eta Zientzia 2022 / Cine y Ciencia 2022
City of event: Donostia, Basque Country, Spain
Date of event: 03/10/2022
Organising entity: Donostia International Physics Center **Type of entity:** fundacion
- 5** **Title of the work:** Neurotecnología y derechos humanos
Name of the event: Mesa Redonda
Type of event: Conferences given
City of event: Donostia - San Sebastian, Basque Country, Spain
Date of event: 28/07/2022
Organising entity: San Telmo Museoa **Type of entity:** Museo
"https://www.youtube.com/watch?v=8HxTqvZldYA".
- 6** **Title of the work:** Entrevista en Argia: "ZIENTZIA BAINO KREATIBOAGOA DEN GAUZA GUTXI IMAJINA DEZAKET"
Name of the event: Argia Aldizkaria
Type of event: Media interviews
Date of event: 03/07/2022



Available on-line at: <https://www.argia.eus/astekaria/docs/2785/pdf/2785_Argia-16-20.pdf>.

- 7** **Title of the work:** JotDown Ciencia 2022: Mesa redonda "Invisibilidad en la Ciencia"
Name of the event: JotDown Ciencia 2022
Type of event: Conferences given
Date of event: 11/06/2022
Organising entity: JotDown **Type of entity:** Magazine
- 8** **Title of the work:** Entrevista a Kirmen Uribe en JotDown magazine
Name of the event: Jotdown Magazine
Type of event: Media interviews
Date of event: 06/06/2022
City organizing entity: JotDown Magazine,
Available on-line at: <<https://www.jotdown.es/2022/06/kirmen-uribe/>>.
- 9** **Title of the work:** Ciencia y Ficción (entrevista en elcontraplano.com)
Type of event: Media interviews
Date of event: 30/04/2022
Available on-line at: <<https://elcontraplano.com/2022/05/01/ciencia-y-ficcion-el-problema-de-el-indomable-will-hunting-era-demasiado-facil/>>.
- 10** **Title of the work:** Reportaje en Berria: Arteak inspira dezake zientzia
Type of event: Media interviews
Date of event: 29/04/2022
Organising entity: Berria **Type of entity:** Journal
Available on-line at:
<<https://www.berria.eus/paperekoa/1862/028/001/2022-04-29/artea-inkspira-dezake-zientzia.htm>>.
- 11** **Title of the work:** Ciencia y Ficción: La ciencia en las series
Name of the event: Crossover
Type of event: Conferences given
City of event: Donostia - San Sebastian, Basque Country, Spain
Date of event: 28/04/2022
City organizing entity: Koldo Mitxelena Kulturunea, Basque Country, Spain
Available on-line at: <<https://www.youtube.com/watch?v=OnRNMEHEZAU&t=870s>>.
- 12** **Title of the work:** Nanoneuro (Entrevista canal DIPC Youtube)
Type of event: Media interviews
Date of event: 21/10/2021
"https://www.youtube.com/watch?v=ya-tNCuBWZ8". Available on-line at:
<<https://www.youtube.com/watch?v=ya-tNCuBWZ8>>.
- 13** **Title of the work:** Entrevista en Diario Vasco: «Saiatzen ari gara nanopartikulak erabiltzen burmuina ulertzeko»
Name of the event: Diario Vasco
Type of event: Media interviews
Date of event: 19/10/2021
Organising entity: Diario Vasco (Grupo Vocento)
Available on-line at: <<https://www.diariovasco.com/sociedad/ciencia/saiatzen-gara-nanopartikulak-20211019130211-nt.html?ref=https%3A%2F%2Fwww.google.com%2F>>.

- 14** **Title of the work:** Programa de Visitas de escuelas DIPC (2016-2021)
Name of the event: Programa de Visitas de escuelas DIPC
City of event: San Sebastian, Basque Country, Spain
Date of event: 2021
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion Center
City organizing entity: San Sebastian, Basque Country, Spain
- 15** **Title of the work:** Entrevista a Rafael Yuste en JotDown Magazine
Name of the event: Jotdown Magazine
Type of event: Media interviews
Date of event: 30/12/2020
Available on-line at: <<https://www.jotdown.es/2020/12/rafael-yuste/>>.
- 16** **Title of the work:** Entrevista a Rafael Yuste en Canal Europa
Date of event: 20/08/2020
Available on-line at: <<http://www.canaleuropa.eu/es/entrevista/rafael-yuste/>>.
- 17** **Title of the work:** Reportaje en Diario Vasco: "Donostia activa la luz de la biomedicina"
Name of the event: Diario Vasco
Type of event: Media interviews
Date of event: 24/06/2020
Available on-line at: <<https://www.diariovasco.com/gipuzkoa/donostia-activa-biomedicina-20200624210142-nt.html?ref=https%3A%2F%2Fwww.google.com%2F>>.
- 18** **Title of the work:** Zinema eta Zientzia 2020 / Cine y Ciencia 2020 (Presentacion de pelicula "El dilema de Turing")
Name of the event: Zinema eta Zientzia 2020 / Cine y Ciencia 2020
City of event: Donostia, Basque Country, Spain
Date of event: 22/01/2020
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion Center
- 19** **Title of the work:** Teknopolis: Prueba de Acceso / Atariko Froga (entrevista)
Type of event: Media interviews
Date of event: 26/10/2019
Organising entity: EITB **Type of entity:** Television
City organizing entity: Spain
Available on-line at: <<https://zientzia.eus/zientzia-tb/atariko-proba-aitzol-garcia-etxarri-dipc-ko-fisika/>>.
- 20** **Title of the work:** Entrevista a Juan Ignacio Cirac para Canal Europa
Date of event: 01/10/2019
Available on-line at: <<http://www.canaleuropa.eu/es/entrevista/juan-ignacio-cirac/>>.
- 21** **Title of the work:** Zinemaldia / Festival de Cine de San Sebastian. Presentacion a escuelas en el Velodromo de San Sebastian
Name of the event: Zinemaldia 2019
City of event: Donostia, Basque Country, Spain
Date of event: 23/09/2019
Organising entity: SSIFF **Type of entity:** -



- 22** **Title of the work:** Orgullo y Ciencia 2019 (Conferencia divulgativa)
Name of the event: Orgullo y Ciencia 2019
Type of event: Conferences given
City of event: Donostia San Sebastian, Basque Country, Spain
Date of event: 05/06/2019
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion Center
Available on-line at: <https://www.youtube.com/watch?v=t71Jxv04_UE&t=1398s>.
- 23** **Title of the work:** Zinema eta Zientzia 2019 / Cine y Ciencia 2019 (Presentacion de la pelicula Hidden Figures)
Name of the event: Zinema eta Zientzia 2019 / Cine y Ciencia 2019
Type of event: Conferences given
City of event: Bilbao, Basque Country, Spain
Date of event: 09/02/2019
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion Center
- 24** **Title of the work:** Miembro del equipo del programa "Mestizajes" (2018 - hoy)
Name of the event: Programa Mestizajes
Type of event: Programa
Date of event: 2018
Organising entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
- 25** **Title of the work:** Vidas Cientificas - Bizitza Zientifikoak
Name of the event: Vidas Cientificas - Bizitza Zientifikoak
Type of event: Fairs and exhibitions
City of event: Donsotia San Sebastian, Basque Country, Spain
Date of event: 24/10/2016
Organising entity: Eureka Zientzia Museoa **Type of entity:** Museo
City organizing entity: San Sebastian, Basque Country, Spain
- 26** **Title of the work:** Periodical participation as scientific expert in "Mezularia" Radio show
Name of the event: Mezularia
Type of event: Media interviews
City of event: San Sebastian, Basque Country, Spain
Date of event: 2012
Organising entity: EITB **Type of entity:** Medio de comunicacion
City organizing entity: San Sebastian, Basque Country, Spain
Aitzol Garcia.
- 27** **Title of the work:** Interview in "El Correo"
Name of the event: Interview in "El Correo"
Type of event: Media interviews
Date of event: 13/03/2011
Organising entity: Grupo Vocento
"http://www.elcorreo.com/alava/v/20110313/alava/tengo-presion-porque-trabajo-20110313.html".



- 28** **Title of the work:** Periodical participation as scientific expert in "Mezularia" Radio show
Name of the event: Mezularia
Type of event: Media interviews
City of event: San Sebastian, Basque Country, Spain
Date of event: 2011
Organising entity: EITB **Type of entity:** Medio de comunicacion
City organizing entity: San Sebastian, Basque Country, Spain
Aitzol Garcia.
- 29** **Title of the work:** Periodical participation as scientific expert in "Mezularia" Radio show
Name of the event: Mezularia
Type of event: Media interviews
City of event: San Sebastian, Basque Country, Spain
Date of event: 2010
Organising entity: EITB **Type of entity:** Medio de comunicacion
City organizing entity: San Sebastian, Basque Country, Spain
Aitzol Garcia.
- 30** **Title of the work:** Coordination and management of the Nanoscience and Nanotechnology stand
Name of the event: San Sebastian science outreach fair
Type of event: Fairs and exhibitions
City of event: San Sebastian, Basque Country, Spain
Date of event: 2009
Organising entity: Universidad del País Vasco **Type of entity:** University
City organizing entity: Bilbao, Basque Country, Spain
Aitzol Garcia.
- 31** **Title of the work:** Coordination and management of the Nanoscience and Nanotechnology stand
Name of the event: San Sebastian science outreach fair
Type of event: Fairs and exhibitions
City of event: San Sebastian, Basque Country, Spain
Date of event: 2008
Organising entity: Universidad del País Vasco **Type of entity:** University
City organizing entity: Bilbao, Basque Country, Spain
Aitzol Garcia.
- 32** **Title of the work:** Coordination and management of the Nanoscience and Nanotechnology stand
Name of the event: San Sebastian science outreach fair
Type of event: Fairs and exhibitions
City of event: San Sebastian, Basque Country, Spain
Date of event: 2007
Organising entity: Universidad del País Vasco **Type of entity:** University
City organizing entity: Bilbao, Basque Country, Spain
Aitzol Garcia.
- 33** **Title of the work:** Periodical participation as scientific expert in "Hirian" magazine (2001 - 2008)
Name of the event: Hirian Magazine
Type of event: Outreach column
City of event: Pasaia, Basque Country, Spain
Date of event: 2001
Organising entity: Hirian Magazine **Type of entity:** Medio de comunicacion



City organizing entity: Pasaia, Basque Country, Spain
Aitzol Garcia.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Ramon y Cajal Fellowships 2023
Affiliation entity: MINISTERIO DE EDUCACION Y CIENCIA
Start date: 2023
- 2** **Committee title:** The Austrian Science Fund (FWF)
Affiliation entity: The Austrian Science Fund (FWF) **Type of entity:** State agency
City affiliation entity: Viena, Austria
Start date: 01/06/2022
- 3** **Committee title:** Reviewer for ERC Consolidator Awards
Affiliation entity: European Research Council **Type of entity:** Public Research Body
City affiliation entity: Bruselas, Belgium
Start date: 01/12/2021
- 4** **Committee title:** NKFIH Fellowships
Affiliation entity: National Research, Development and Innovation Office **Type of entity:** State agency
City affiliation entity: Budapest, Hungary
Start date: 01/01/2021
- 5** **Committee title:** Reviewer for National Science Foundation CAREER awards
Affiliation entity: National Science Foundation **Type of entity:** State agency
City affiliation entity: Washigton DC, United States of America
Start date: 11/04/2011
- 6** **Committee title:** Programa Estatal Proyectos de I+D de Generación de Conocimiento
Affiliation entity: Ministerio de Ciencia e Innovación **Type of entity:** Gobierno

R&D management

- 1** **Name of the activity:** Basque NanoNeuro Network (B3N)
Type of management: Management of R&D&I actions and projects
Performed tasks: Coordinador
Entity: Donostia International Physics Center **Type of entity:** Fundacion
Start date: 01/01/2021
- 2** **Name of the activity:** DIPIC Equality Committe
Type of management: Programme management
Performed tasks: Member
Entity: Donostia International Physics Center **Type of entity:** Fundacion
Start date: 01/01/2021



- 3 Name of the activity:** Orgullo en Ciencia / Harrotasuna Zientzian
Type of management: Group management
Performed tasks: Co-fundador y coordinador
Entity: Donostia International Physics Center **Type of entity:** Fundacion
Start date: 01/01/2019
- 4 Name of the activity:** DIPC courses on transferable skills
Type of management: Management of organised events
Performed tasks: Responsable
Entity: Donostia International Physics Center **Type of entity:** Fundacion
Start date: 01/01/2018 **Duration:** 1 year - 10 months
- 5 Name of the activity:** Donostia Transdisciplinary Group
Type of management: Management of organised events
Performed tasks: Organización de encuentros bimensuales entre científicos artistas y filósofos
City of entity: San Sebastian, Basque Country, Spain
Entity: Donostia International Physics Center
Start date: 01/06/2017
Access system: Designated by the corresponding party without competition

National and international forums and committees

- 1 Name of the forum:** Passion for Knowledge 2023
Professional category: Executive Committee
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion Center
City organizing entity: San Sebastian, Basque Country, Spain
Start-End date: 02/10/2023 - 07/10/2023
- 2 Name of the forum:** AI Photonics 2023
Professional category: Organizador
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion Center
City organizing entity: San Sebastian, Basque Country, Spain
Start-End date: 11/09/2023 - 14/09/2023
- 3 Name of the forum:** Basque NanoNeuro Network (B3N) 2nd annual meeting
Professional category: Organizador
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion Center
City organizing entity: Donostia, Basque Country, Spain
Start-End date: 21/07/2023 - 21/07/2023
- 4 Name of the forum:** NanoNeuro2023
Professional category: Organizador
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion Center
City organizing entity: San Sebastian, Basque Country, Spain
Start-End date: 20/07/2023 - 20/07/2023



- 5** **Name of the forum:** Topological Photonics 2023
Professional category: Organizador
Organising entity: Universidad Autónoma de Madrid **Type of entity:** University
City organizing entity: Madrid, Community of Madrid, Spain
Start-End date: 31/05/2023 - 02/06/2023
- 6** **Name of the forum:** Orgullo en Ciencia 2022 / Harrotasuna Zientzian 2022
Professional category: Organizador
Organising entity: Donostia International Physics **Type of entity:** Fundacion Center
City organizing entity: Donostia, Basque Country, Spain
Start-End date: 21/11/2022 - 21/11/2022
- 7** **Name of the forum:** Mole Conference 2022
Professional category: Organizador
Organising entity: Donostia International Physics **Type of entity:** Fundacion Center
City organizing entity: San Sebastian, Basque Country, Spain
Start-End date: 25/07/2022 - 29/07/2022
- 8** **Name of the forum:** Basque NanoNeuro Network (B3N) 1st annual meeting
Professional category: Organizador
Organising entity: Donostia International Physics **Type of entity:** Fundacion Center
City organizing entity: Donostia, Basque Country, Spain
Start-End date: 22/07/2022 - 22/07/2022
- 9** **Name of the forum:** NanoNeuro2022
Professional category: Organizador
Organising entity: Donostia International Physics **Type of entity:** Fundacion Center
City organizing entity: San Sebastian, Basque Country, Spain
Start-End date: 21/07/2022 - 21/07/2022
- 10** **Name of the forum:** Topological Photonics 2022
Professional category: Organizador
Organising entity: Donostia International Physics **Type of entity:** Fundacion Center
City organizing entity: Donostia, Basque Country, Spain
Start-End date: 01/06/2022 - 03/06/2022
- 11** **Name of the forum:** Ciclo Neurotecnologias
Professional category: Coorganizador
Organising entity: San Telmo Museoa **Type of entity:** Museo
City organizing entity: Donostia, Basque Country, Spain
Start-End date: 15/03/2023 - 15/04/2022



- 12** **Name of the forum:** NanoNeuro2021
Professional category: Organizador
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion Center
City organizing entity: San Sebastian, Basque Country, Spain
Start-End date: 23/06/2021 - 23/06/2021
- 13** **Name of the forum:** Orgullo en Ciencia 2020 / Harrotasuna Zientzian 2020
Professional category: Organizador
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion Center
City organizing entity: Donostia, Basque Country, Spain
Start-End date: 19/11/2020 - 19/11/2020
- 14** **Name of the forum:** Orgullo en Ciencia 2019 / Harrotasuna Zientzian 2019
Professional category: Organizador
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion Center
City organizing entity: Donostia, Basque Country, Spain
Start-End date: 05/07/2019 - 05/07/2019
- 15** **Name of the forum:** NanoNeuro2020
Professional category: Organizador
Organising entity: Donostia International Physics Center **Type of entity:** Fundacion Center
City organizing entity: San Sebastian, Basque Country, Spain
Start-End date: 22/06/2020 - 26/06/2019
- 16** **Name of the forum:** Conferencia Española de nanofotonica
Professional category: co-organizador
Organising entity: Donostia International Physics Center **Type of entity:** Foundation Center
City organizing entity: San Sebastian, Basque Country, Spain
Start-End date: 01/10/2018 - 05/10/2018

Evaluation and revision of R&D projects and articles

- 1** **Name of the activity:** ACS Photonics
Performed tasks: Referee
Entity where activity was carried out: ACS Photonics **Type of entity:** Scientific Journal
- 2** **Name of the activity:** Applied Physics Letters
Performed tasks: Referee
Entity where activity was carried out: Applied Physics Letters **Type of entity:** Scientific Journal
- 3** **Name of the activity:** Applied optics
Performed tasks: Referee
Entity where activity was carried out: Applied optics **Type of entity:** Scientific Journal



City of entity: Washington, DC, United States of America

4 Name of the activity: Nano letters

Performed tasks: Referee

Entity where activity was carried out: Nano letters **Type of entity:** Scientific Journal

City of entity: Washington, DC, United States of America

5 Name of the activity: Nature Communications

Performed tasks: Referee

Entity where activity was carried out: Nature Communications **Type of entity:** Scientific Journal

6 Name of the activity: Nature Nanotechnology

Performed tasks: Referee

Entity where activity was carried out: Nature Nanotechnology **Type of entity:** Scientific Journal

7 Name of the activity: Nature Scientific Reports

Performed tasks: Referee

Entity where activity was carried out: Nature Scientific Reports **Type of entity:** Scientific Journal

8 Name of the activity: Optics Express

Performed tasks: Referee

Entity where activity was carried out: Optics Express **Type of entity:** Scientific journal

City of entity: Washington, DC, United States of America

9 Name of the activity: Physical Review A

Performed tasks: Referee

Entity where activity was carried out: Physical Review A **Type of entity:** Scientific Journal

10 Name of the activity: Physical Review B

Performed tasks: Referee

Entity where activity was carried out: Physical Review B **Type of entity:** Scientific Journal

11 Name of the activity: Physical Review Letters

Performed tasks: Referee

Entity where activity was carried out: Physical Review Letters **Type of entity:** Scientific Journal

City of entity: Ridge, NY, United States of America

12 Performed tasks: Referee

Entity where activity was carried out: Materials **Type of entity:** Publicación Científica



Other achievements

Stays in public or private R&D centres

- 1** **Entity:** FOM-AMOLF **Type of entity:** Public Research Body
City of entity: Amsterdam, Holland
Start-End date: 01/10/2012 - 31/10/2012 **Duration:** 1 month
Goals of the stay: Guest
Provable tasks: Collaboration with A. Polman's group on Cathodoluminescence mapping of plasmonic oligomers
- 2** **Entity:** Universidad Autónoma de Madrid **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Start-End date: 01/03/2010 - 31/03/2010 **Duration:** 1 month
Goals of the stay: Guest
Provable tasks: Collaboration with J. J. Saenz on Excitation of magnetic and electric dipolar resonances in metallic and dielectric nanoantennas
- 3** **Entity:** National Institute of Standards and Technology (NIST) **Type of entity:** Public Research Body
City of entity: Gaithersburg, MD, United States of America
Start-End date: 01/02/2009 - 30/04/2009 **Duration:** 3 months
Goals of the stay: Guest
Provable tasks: Collaboration with G. W. Bryant's group on simulations of the interaction of single quantum dot emitters with metallic nanoantennas
- 4** **Entity:** Chalmers University of Technology **Type of entity:** University
Faculty, institute or centre: Bionanophotonics, Applied Physics
City of entity: Göteborg, Sweden
Start-End date: 01/04/2008 - 30/06/2008 **Duration:** 3 months
Goals of the stay: Guest
Provable tasks: Collaboration with M. Käll's group on the optimization of the field enhancement on metallic nanostructures
- 5** **Entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Faculty, institute or centre: Instituto de Optica
City of entity: Madrid, Community of Madrid, Spain
Start-End date: 28/01/2007 - 08/02/2007 **Duration:** 1 month
Provable tasks: Collaboration with F. J. Garcia de abajo's group on tip sample interactions in near field scanning optical microscopy
- 6** **Entity:** Colorado State University **Type of entity:** University
Faculty, institute or centre: Electrical and Computer Engineering
City of entity: Fort Collins, United States of America
Start-End date: 01/09/2005 - 20/12/2005 **Duration:** 3 months - 20 days
Goals of the stay: Final Degree Thesis
Provable tasks: Development of a Laser ablation experiment employing a 46.9nm laser source for the final degree project of telecommunication engineering studies at the University of Navarra



- 7** **Entity:** Stanford University **Type of entity:** University
Faculty, institute or centre: Department of materials science and engineering
City of entity: Stanford, CA, United States of America
Start date: 14/01/2011 **Duration:** 4 years
Goals of the stay: Post-doctoral
Provable tasks: Research on electric, magnetic and chiral optical excitations at the nanoscale

Obtained grants and scholarships

- 1** **Name of the grant:** Ikerbasque Research Fellow
Awarding entity: FUNDACION IKERBASQUE/IKERBASQUE FUNDAZIOA
Conferral date: 01/11/2019 **Duration:** 5 years
End date: 01/11/2024
Entity where activity was carried out: Donostia International Physics Center
Faculty, institute or centre: Fundacion
- 2** **Name of the grant:** Programa de ayudas para personal investigador doctor de perfeccionamiento
Aims: Post-doctoral
Awarding entity: Gobierno Vasco **Type of entity:** 0
Conferral date: 01/01/2011 **Duration:** 1 year
End date: 01/01/2012
Entity where activity was carried out: Gobierno Vasco
Faculty, institute or centre: Departamento de Educación, Universidades e Investigación
- 3** **Name of the grant:** I3P-CSIC predoctoral fellowship
Aims: Pre-doctoral
Awarding entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Conferral date: 01/01/2007 **Duration:** 4 years
End date: 31/12/2010
Entity where activity was carried out: Consejo Superior de Investigaciones Científicas
- 4** **Name of the grant:** Programa de becas para formación de investigadores
Aims: Pre-doctoral
Awarding entity: Gobierno Vasco **Type of entity:** 0
Conferral date: 01/10/2006 **Duration:** 2 months
End date: 31/12/2006
Entity where activity was carried out: Gobierno Vasco
Faculty, institute or centre: Departamento de educación, universidades e investigación
- 5** **Name of the grant:** Beca predoctoral DIPC
Aims: Pre-doctoral
Awarding entity: Donostia International Physics Center **Type of entity:** Foundation
Conferral date: 01/04/2006 **Duration:** 6 months
End date: 01/10/2006
Entity where activity was carried out: Donostia International Physics Center



- 6** **Name of the grant:** Fellows Gipuzkoa
Aims: Research Fellow
Awarding entity: Diputación Foral de Gipuzkoa **Type of entity:** Diputacion
Conferral date: 01/11/2014 **Duration:** 5 years
Entity where activity was carried out: Donostia International Physics Center

Other types of collaboration with researchers or technologists

- 1** **Type of relationship:** Ongoing collaboration nanoneuro sciences
Name principal investigator (PI, Co-PI....): Rafael Yuste
Description of the collaboration: Scientific collaboration
Participating entity/entities:
Columbia University
City participating entity: New York, United States of America
Start date: 01/06/2018
- 2** **Type of relationship:** Ongoing collaboration Topological Photonics
Name principal investigator (PI, Co-PI....): Barry Bradlyn
Description of the collaboration: Scientific collaboration
Participating entity/entities:
University of Illinois at Urbana Champaign **Type of entity:** University
City participating entity: Urbana, United States of America
Start date: 01/05/2017
- 3** **Type of relationship:** Ongoing collaboration on chiral light matter interactions at the nanoscale
Name principal investigator (PI, Co-PI....): Jennifer Dionne
Description of the collaboration: Scientific collaboration
Participating entity/entities:
Stanford University **Type of entity:** University
City participating entity: Stanford, United States of America
Start date: 01/01/2015
- 4** **Type of relationship:** Ongoing research on antenna enhanced third harmonic generation in graphene
Name principal investigator (PI, Co-PI....): Hideo Mabuchi
Description of the collaboration: Scientific collaboration
Participating entity/entities:
Stanford University **Type of entity:** University
City participating entity: Stanford, United States of America
Start date: 01/01/2014
- 5** **Type of relationship:** Confirmed publications
Name principal investigator (PI, Co-PI....): Albert Polman
Description of the collaboration: Scientific collaboration
Participating entity/entities:
FOM-AMOLF **Type of entity:** Public Research Body
City participating entity: Amsterdam, Holland
Start date: 01/10/2012 **Duration:** 1 year - 3 months



- 6** **Type of relationship:** Confirmed publications
Description of the collaboration: Scientific collaboration
Participating entity/entities:
 NIST, National Institute of Standards and Technology **Type of entity:** Public Research Body
City participating entity: Gaithersburg, United States of America
Start date: 01/02/2009 **Duration:** 1 year - 6 months
- 7** **Type of relationship:** Confirmed publications
Name principal investigator (PI, Co-PI....): Peter Apell; Mikael Käll
Description of the collaboration: Scientific collaboration
Participating entity/entities:
 Chalmers Universtiy of Technology **Type of entity:** University
City participating entity: Goteborg, Sweden
Start date: 01/04/2008 **Duration:** 3 years
- 8** **Type of relationship:** Confirmed publications
Name principal investigator (PI, Co-PI....): Annemarie Pucci
Description of the collaboration: Scientific collaboration
Participating entity/entities:
 Heidelberg University **Type of entity:** University
City participating entity: Heidelberg, Germany
Start date: 01/01/2007 **Duration:** 3 years
- 9** **Type of relationship:** Confirmed publications
Name principal investigator (PI, Co-PI....): Rainer Hillenbrand
Description of the collaboration: Scientific collaboration
Participating entity/entities:
 ASOCIACION CIC NANOGUNE
City participating entity: Spain
Start date: 01/04/2006 **Duration:** 4 years - 6 months

Scientific societies and professional associations

Name of the society: PRISMA: Asociación para la Diversidad Afectivo-Sexual y de Género en Ciencia, Tecnología e Innovación
Affiliation entity: PRISMA **Type of entity:** Associations and Groups
City affiliation entity: Madrid, Community of Madrid, Spain
Start date: 01/07/2019



Prizes, mentions and distinctions

- 1** **Description:** Premio extraordinario de doctorado
Awarding entity: Universidad del País Vasco **Type of entity:** University
City awarding entity: Bilbao, Basque Country, Spain
Conferral date: 16/09/2013
- 2** **Description:** Doctorado Europeo
Awarding entity: Universidad del País Vasco **Type of entity:** University
City awarding entity: San Sebastian, Basque Country, Spain
Conferral date: 2010

Obtained accreditations/recognitions

- 1** **Description:** Acreditacion de Personal Doctor Investigador
Accrediting entity: Unibasq **Type of entity:** State agency
City accrediting entity: Vitoria, Basque Country, Spain
Date of recognition: 04/05/2016
- 2** **Description:** Acreditacion de Profesorado Adjunto
Accrediting entity: Unibasq **Type of entity:** State agency
City accrediting entity: Vitoria, Basque Country, Spain
Date of recognition: 04/05/2016