



Macarena Poyatos de Lorenzo

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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.

Macarena Poyatos graduated in Chemistry in 2001 in the Jaume I University (Castellón, Spain). She received her Ph.D. Degree in Chemistry (2005) from the same university, under the supervision of Prof. Eduardo Peris. She co-authored nine articles directly related with the work she developed during her Ph.D. Thesis. In 2005, she joined Louis Pasteur University of Strasbourg, where she worked under the supervision of Prof. Lutz Gade and Dr. Stephane Bellemin-Laponnaz during ten months. During this time, she worked in the synthesis of chiral compounds containing oxazole ligands. In 2006, she moved to Yale University and joined Prof. Robert Crabtree's group, where she stayed for two years with a post-doctoral fellowship of the Ministerio de Educación y Ciencia. During this time, she worked in the search of liquid organic substrates for hydrogen release reactions as well as in the preparation of bis-chelating N-heterocyclic carbene-based complexes. As a result of her work as a post-doctoral fellow, she co-authored seven articles. In 2008, she was awarded a **Juan de la Cierva** contract and she moved back to Jaume I University. One year later, she was awarded a **Ramon y Cajal** contract. Since October 2019, she is "Profesora Titular". She worked first in the preparation of simple and improved catalysts for reactions implying borrowing-hydrogen methodologies. She then focused her attention to the design of multitopic NHC-based ligands for the preparation of improved catalysts and advanced materials. More recently, she has focused her interest to the preparation of luminescent materials. Ever since her incorporation to Jaume I University in 2008, she has co-supervised four doctoral thesis and she is currently co-supervising two Ph.D. students. She has participated in fourteen research projects, being the PI (or second PI) of six of them. Macarena Poyatos has co-authored **66 research papers** in international chemistry journals -including four review articles- and one book chapter. Her papers have achieved a total number of **4927 citations** (4692 without self-citations) with 74.65 citations per article and her '**h**' index is **37**.

**C****V****N**

CURRÍCULUM VÍTAE NORMALIZADO

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Leadership Merits

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

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.

All data extracted from the webofscience, December 2024

- **Three periods** of 6 years on research work (sexenios): 2003/2008, 2009/2014 (both obtained in June 2016) and 2015/2020 (obtained in May 2021)
- Number of co-supervised PhD. Thesis in the last ten years: 5
- Number of citations: 5650 (5393 without self-citations)
- Number of citations/article: **78.47**
- Number of publications: **72**
- h-index: **39**

Invited lectures at international chemistry meetings and seminars

1. Type of contribution: **Oral communication**

Title of the work: Fc-based N-heterocyclic carbenes for the design of redox-switchable catalysts

Name of the conference: 11th Spanish-Italian Symposium on Organic Chemistry

City and dates of the event: San Sebastián, Basque Country (Spain), 13-17 July 2017

Organising entity: Real Sociedad Española de Química, Societa Chimica Italiana

2. Type of contribution: **Oral communication**

Title of the work: IX International School on Organometallic Chemistry Marcial Moreno Mañas

Name of the conference: IX International School on Organometallic Chemistry Marcial Moreno Mañas

City and dates of the event: San Sebastián, Basque Country (Spain), 6-8 July 2017

Organising entity: ORFEO-CINQA Research Network

3. Type of contribution: **Seminar**

Title of the work: Au(I) complexes supported by polyaromatic NHCs. Catalytic, supramolecular and photophysical studies

City and dates of the event: Strasbourg (France), 26 September 2017

Organizing entity: Institut de Physique et Chimie des Matériaux de Strasbourg, Département des Matériaux Organiques

4. Type of contribution: **Oral communication**

Title of the work: Pyrene-based Au(I) complexes: from molecular catalysts to highly fluorescent materials

Name of the conference: 28th International Conference on Organometallic Chemistry ICOMC

City and dates of the event: Florencia, Toscana (Italia), 15-20 July 2018

Organising entity: Institute of Chemistry of Organometallic Compounds (ICCOM) of the Italian National Research Council (CNR)

5. Type of contribution: **Seminar**



Title of the work: Polyaromatic NHC-based complexes: from molecular catalysts to highly fluorescent materials

City and dates of the event: Münster (Germany), December 20178

Organising entity: Institut für Anorganische und Analytische Chemie, Universität Münster

6. Type of contribution: Oral communication

Title of the work: Redox-switchable catalysis with naphthalenediimide-derived NHC complexes

Name of the conference: 29th International Conference on Organometallic Chemistry ICOMC

City and dates of the event: Prague (Czech Republic), July 2022

7. Type of contribution: Oral communication

Title of the work: Redox-switchable catalysis with naphthalenediimide-derived NHC complexes

Name of the conference: XL Reunión del Grupo Especializado de Química Organometálica

City and dates of the event: Barcelona (Spain), September 2022

8. Type of contribution: Oral communication

Title of the work: Redox-switchable catalysis with naphthalenediimide-derived NHC complexes

Name of the conference: 8th EuChemS conference on Nitrogen Ligands

City and dates of the event: Cassis (France), July 2024

Macarena Poyatos de Lorenzo

Surname(s): **Poyatos de Lorenzo**
Name: **Macarena**
ORCID: **0000-0003-2000-5231**
ResearcherID: **K-2005-2017**
Gender: **Female**
Email: **poyatosd@uji.es**
Personal web page: **<http://www.inam.uji.es/users/macarena-poyatos>**

Current professional situation

- 1** **Employing entity:** Universitat Jaume I **Type of entity:** University
Department: Institute of Advanced Materials (INAM) / Escuela Superior de Tecnología y Ciencias Experimentales (ESTCE)
Professional category: Profesora Titular
Start date: 11/11/2019
Type of contract: Civil servant **Dedication regime:** Full time
Primary (UNESCO code): 230307 - Co-ordination compounds; 230321 - Organo-metallic compounds
Identify key words: Organometallic chemistry; Homogenous; Chemical coordination
- 2** **Employing entity:** Universitat Jaume I **Type of entity:** University
Department: Inorganic and Organic Chemistry, Institute of Advanced Materials (INAM) / Escuela Superior de Tecnología y Ciencias Experimentales (ESTCE)
Professional category: Profesora Contratada Doctora
Start date: 09/2015
Type of contract: Permanent employment **Dedication regime:** Full time contract
Primary (UNESCO code): 230307 - Co-ordination compounds; 230321 - Organo-metallic compounds
Identify key words: Organometallic chemistry; Homogenous; Chemical coordination

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universitat Jaume I	Professor/a Contractat/da Doctor/a	23/03/2015
2	MINISTERIO DE EDUCACION Y CIENCIA	Postdoctoral fellow	01/02/2006
3	Universite Louis Pasteur, Strasbourg	Postdoctoral fellow	01/04/2005
4	Universitat Jaume I	Personal investigador (Programa Ramón y Cajal)	01/12/2009
5	Universitat Jaume I	Personal investigador (Programa Juan de la Cierva)	01/02/2008
6	Universitat Jaume I	Personal investigador contractat	10/03/2004



- 1** **Employing entity:** Universitat Jaume I **Type of entity:** University
Department: Dep. de Química Inorgànica i Orgànica
City employing entity: Castellón, Valencian Community, Spain
Professional category: Professor/a **Leadership and management (Y/N):** No
Contractat/da Doctor/a
Start-End date: 23/03/2015 - 13/10/2019 **Duration:** 4 years - 1 month
Dedication regime: Full time
- 2** **Employing entity:** MINISTERIO DE EDUCACION Y CIENCIA
Professional category: Postdoctoral fellow
Start-End date: 01/02/2006 - 31/01/2008 **Duration:** 2 years
- 3** **Employing entity:** Universite Louis Pasteur, Strasbourg
Professional category: Postdoctoral fellow
Start-End date: 01/04/2005 - 30/11/2005 **Duration:** 7 months
- 4** **Employing entity:** Universitat Jaume I **Type of entity:** University
Department: Dep. de Química Inorgànica i Orgànica
City employing entity: Castellón, Valencian Community, Spain
Professional category: Personal investigador **Leadership and management (Y/N):** No
(Programa Ramón y Cajal)
Start date: 01/12/2009 **Duration:** 64 months
Dedication regime: Full time
- 5** **Employing entity:** Universitat Jaume I **Type of entity:** University
Department: Dep. de Química Inorgànica i Orgànica
City employing entity: Castellón, Valencian Community, Spain
Professional category: Personal investigador **Leadership and management (Y/N):** No
(Programa Juan de la Cierva)
Start date: 01/02/2008 **Duration:** 22 months
Dedication regime: Full time
- 6** **Employing entity:** Universitat Jaume I **Type of entity:** University
Department: Dep. de Química Inorgànica i Orgànica
City employing entity: Castellón, Valencian Community, Spain
Professional category: Personal investigador **Leadership and management (Y/N):** No
contractat
Start date: 10/03/2004 **Duration:** 13 months
Dedication regime: Full time



Education

University education

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

University degree: Higher degree

Name of qualification: Licenciado en Ciencias Químicas

Degree awarding entity: Universitat Jaume I

Type of entity: University

Date of qualification: 2001

Doctorates

Doctorate programme: Química Molecular i Materials

Degree awarding entity: Universitat Jaume I

Type of entity: University

City degree awarding entity: Castellón, Valencian Community, Spain

Date of degree: 21/02/2005

DEA awarding entity: Universitat Jaume I

Date DEA was awarded: 22/12/2003

European doctorate: Yes

Date of certificate: 21/02/2005

Thesis title: Synthesis of homogeneous catalysts with bidentate and pincer N-heterocyclic carbene ligands. Study of reactivity and catalytic properties.

Thesis director: Eduardo Víctor Peris Fajarnés

Obtained qualification: Excellent Cum Laude

Recognition of quality: No

Special doctorate award: Yes

Date of award: 31/12/2004

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Catalan	B2	B2	B2	B2	B2
English	B2	B2	B2	B2	B2

Teaching experience



General teaching experience

- 1** **Name of the course:** Operaciones Básicas de Laboratorio
University degree: Grau en Química
Start date: 11/11/2019 **End date:** 11/09/2022
Entity: Universitat Jaume I **Type of entity:** University
Faculty, institute or centre: Escola Superior Tecnologia i Ciències Experimentals
- 2** **Name of the course:** Química
University degree: Grado en Ingeniería Mecánica/Eléctrica/Química y de Tecnologías Industriales
Start date: 12/10/2016 **End date:** 27/09/2020
Entity: Universidad Jaime I **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Tecnología y Ciencias Experimentales
- 3** **Name of the course:** Química I
University degree: Grau en Química
Start date: 28/09/2020
Entity: Universitat Jaume I **Type of entity:** University
Faculty, institute or centre: Escola Superior de Tecnologia i Ciències Experimentals
- 4** **Type of teaching:** Official teaching
Name of the course: Catàlisi Homogènia i Medi Ambient
University degree: Máster Universitario en Química Aplicada y Farmacológica
Frequency of the activity: 6
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 4,2
Entity: Universidad Jaime I **Type of entity:** University
Department: Dep. de Química Inorgànica i Orgànica
City of entity: Castellón, Valencian Community, Spain
Subject language: Spanish
- 5** **Type of teaching:** Official teaching
Name of the course: Catálisis homogénea y medio ambiente
University degree: Máster Universitario en Catálisis Homogénea
Frequency of the activity: 2
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 1,5
Entity: Universidad Jaime I **Type of entity:** University
Department: Dep. de Química Inorgànica i Orgànica
City of entity: Castellón, Valencian Community, Spain
Subject language: Spanish
- 6** **Type of teaching:** Official teaching
Name of the course: Ampliació de Química Inorgànica
University degree: Llicenciatura en Química (Pla de 2002)
Frequency of the activity: 1
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: Universidad Jaime I **Type of entity:** University



Department: Dep. de Química Inorgánica y Orgánica
City of entity: Castellón, Valencian Community, Spain
Subject language: Spanish

7 **Type of teaching:** Official teaching
Name of the course: Fonaments Químics de l'Enginyeria
University degree: Enginyeria Industrial
Frequency of the activity: 1
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 1,5
Entity: Universidad Jaime I **Type of entity:** University
Department: Dep. de Química Inorgánica y Orgánica
City of entity: Castellón, Valencian Community, Spain
Subject language: Spanish

8 **Type of teaching:** Official teaching
Name of the course: Laboratori Avançat en Química I
University degree: Llicenciatura en Química (Pla de 2002)
Frequency of the activity: 1
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 6
Entity: Universidad Jaime I **Type of entity:** University
Department: Dep. de Química Inorgánica y Orgánica
City of entity: Castellón, Valencian Community, Spain
Subject language: Spanish

9 **Type of teaching:** Official teaching
Name of the course: Operacions Bàsiques de Laboratori (Química)
University degree: Grau en Química
Frequency of the activity: 1
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3,38
Entity: Universidad Jaime I **Type of entity:** University
Department: Dep. de Química Inorgánica y Orgánica
City of entity: Castellón, Valencian Community, Spain

10 **Type of teaching:** Official teaching
Name of the course: Química
University degree: Grau en Enginyeria Química
Frequency of the activity: 1
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 0,53
Entity: Universidad Jaime I **Type of entity:** University
Department: Dep. de Química Inorgánica y Orgánica
City of entity: Castellón, Valencian Community, Spain

11 **Type of teaching:** Official teaching
Name of the course: Química
University degree: Grau en Enginyeria Elèctrica
Frequency of the activity: 1
Type of hours/ ECTS credits: Credits



Hours/ECTS credits: 0,99

Entity: Universidad Jaime I

Type of entity: University

Department: Dep. de Química Inorgánica y Orgánica

City of entity: Castellón, Valencian Community, Spain

12 Type of teaching: Official teaching

Name of the course: Química

University degree: Grau en Enginyeria en Tecnologies Industrials

Frequency of the activity: 1

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 1,32

Entity: Universidad Jaime I

Type of entity: University

Department: Dep. de Química Inorgánica y Orgánica

City of entity: Castellón, Valencian Community, Spain

13 Type of teaching: Official teaching

Name of the course: Química

University degree: Grau en Enginyeria Mecànica

Frequency of the activity: 1

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 2,16

Entity: Universidad Jaime I

Type of entity: University

Department: Dep. de Química Inorgánica y Orgánica

City of entity: Castellón, Valencian Community, Spain

14 Type of teaching: Official teaching

Name of the course: Química

University degree: Grau en Enginyeria Química

Frequency of the activity: 2

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 1,51

Entity: Universidad Jaime I

Type of entity: University

Department: Dep. de Química Inorgánica y Orgánica

City of entity: Castellón, Valencian Community, Spain

Subject language: Spanish

15 Type of teaching: Official teaching

Name of the course: Química

University degree: Grau en Enginyeria en Tecnologies Industrials

Frequency of the activity: 2

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 1,79

Entity: Universidad Jaime I

Type of entity: University

Department: Dep. de Química Inorgánica y Orgánica

City of entity: Castellón, Valencian Community, Spain

Subject language: Spanish

16 Type of teaching: Official teaching

Name of the course: Química

University degree: Grau en Enginyeria Elèctrica

Frequency of the activity: 2



Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 1,94

Entity: Universidad Jaime I

Department: Dep. de Química Inorgánica y Orgánica

City of entity: Castellón, Valencian Community, Spain

Subject language: Spanish

Type of entity: University

17 Type of teaching: Official teaching

Name of the course: Química

University degree: Grau en Enginyeria Mecànica

Frequency of the activity: 2

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3,76

Entity: Universidad Jaime I

Department: Dep. de Química Inorgánica y Orgánica

City of entity: Castellón, Valencian Community, Spain

Subject language: Spanish

Type of entity: University

18 Type of teaching: Official teaching

Name of the course: Química II

University degree: Llicenciatura en Química (Pla de 2002)

Frequency of the activity: 3

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 12

Entity: Universidad Jaime I

Department: Dep. de Química Inorgánica y Orgánica

City of entity: Castellón, Valencian Community, Spain

Subject language: Spanish

Type of entity: University

19 Type of teaching: Official teaching

Name of the course: Química Inorgànica I

University degree: Grau en Química

Frequency of the activity: 1

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 3,92

Entity: Universidad Jaime I

Department: Dep. de Química Inorgánica y Orgánica

City of entity: Castellón, Valencian Community, Spain

Type of entity: University

20 Type of teaching: Official teaching

Name of the course: Química Inorgànica II

University degree: Grau en Química

Frequency of the activity: 1

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 2

Entity: Universidad Jaime I

Department: Dep. de Química Inorgánica y Orgánica

City of entity: Castellón, Valencian Community, Spain

Type of entity: University



- 21** **Type of teaching:** Official teaching
Name of the course: Química Inorgànica III
University degree: Grau en Química
Frequency of the activity: 2
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 5
Entity: Universidad Jaime I **Type of entity:** University
Department: Dep. de Química Inorgànica y Orgànica
City of entity: Castellón, Valencian Community, Spain
Subject language: Spanish
- 22** **Type of teaching:** Official teaching
Name of the course: Química Organometàl·lica
University degree: Llicenciatura en Química (Pla de 2002)
Frequency of the activity: 2
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 9
Entity: Universidad Jaime I **Type of entity:** University
Department: Dep. de Química Inorgànica y Orgànica
City of entity: Castellón, Valencian Community, Spain
Subject language: Spanish
- 23** **Type of teaching:** Official teaching
Name of the course: Treball de Final de Grau
University degree: Grau en Química
Frequency of the activity: 1
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 0,48
Entity: Universidad Jaime I **Type of entity:** University
Department: Dep. de Química Inorgànica y Orgànica
City of entity: Castellón, Valencian Community, Spain

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Synthetic route to a pincer-tweezer precursor
Type of project: TFM
Entity: ICIQ/URV **Type of entity:** University Research Institute
Student: Esteban Aicardo Valencia Grajales
Date of reading: 26/07/2021
- 2** **Project title:** Synthesis os bis-NHC precursors and study of their coordinatation capabilities
Entity: Universitat Jaume I **Type of entity:** University
Student: Lucía Ballester Salvador
Date of reading: 25/06/2021
- 3** **Project title:** Tetrametallic (Gold, Iridium and Rhodium) complexes based on NHCs. From lumininscent properties to supramolecular assemblies
Type of project: Doctoral thesis
Entity: Universitat Jaume I **Type of entity:** University
Student: Ana María Gutiérrez Blanco



Date of reading: 03/05/2021

- 4** **Project title:** A review in Janus-type bis-NHC ligands
Type of project: TFG
Entity: Universitat Jaume I **Type of entity:** University Research Institute
Student: Alex Sierra Marrero
Date of reading: 24/09/2020
- 5** **Project title:** Synthetic route to a pincer-tweezer precursor
Entity: Universitat Jaume I **Type of entity:** University Research Institute
Student: Esteban Aicardo Valencia Grajales
Date of reading: 26/06/2020
- 6** **Project title:** Synthesis of flexible tetrakisimidazolium macrocycles
Entity: Universitat Jaume I **Type of entity:** University
Student: Miriam Castell Forcadell
Date of reading: 21/06/2019
- 7** **Project title:** Synthesis and characterization of pyrene-based tetranuclear Ir(I) complexes
Type of project: End of course project
Entity: Universitat Jaume I **Type of entity:** University
Student: Bárbara Adsua
Date of reading: 22/06/2018
- 8** **Project title:** Synthesis and coordination of a tris-N-heterocyclic carbene ligand
Entity: Universitat Jaume I **Type of entity:** University
Student: David Martínez Arriazu
Date of reading: 23/06/2017
- 9** **Project title:** NHC-based gold(I) complexes supported by 1,3,6,8-tetraethynylpyrene: synthesis, photophysical properties and molecular aggregation
Type of project: TFM
Entity: ICIQ/URV **Type of entity:** University Research Institute
City of entity: Tarragona,
Student: Ana María Gutiérrez Blanco
Date of reading: 22/06/2017
- 10** **Project title:** An attempt to prepare a polycyclic pyrene-fused Janus-type bis-N-heterocyclic carbene ligand
Type of project: End of course project
Entity: Univesritat Jaume I **Type of entity:** University
Student: Ana María Gutiérrez Blanco
Date of reading: 24/06/2016
- 11** **Project title:** Synthesis of bis-imidazolium salt for the preparation of a bis-NHC Ir(III)-based complex
Type of project: End of course project
Entity: Universitat Jaume I **Type of entity:** University
Student: Bárbara Torres Rochera
Date of reading: 24/06/2016



- 12** **Project title:** Metal compounds with rigid polyaromatic ligands. Catalytic consequences
Type of project: Doctoral thesis
Co-director of thesis: Eduardo Víctor Peris Fajarnés
Entity: Universitat Jaume I **Type of entity:** University
City of entity: Castellón, Valencian Community, Spain
Student: Hugo Christian Valdés Rivas
Obtained qualification: Excel·lent Cum Laude
Date of reading: 25/09/2015
European doctorate: No
- 13** **Project title:** Design of polytopic ligands for the preparation of multifunctional catalysts
Type of project: Doctoral thesis
Co-director of thesis: Eduardo Víctor Peris Fajarnés
Entity: Universitat Jaume I **Type of entity:** University
City of entity: Castellón, Valencian Community, Spain
Student: Sergio Gonell Gómez
Obtained qualification: Excel·lent Cum Laude
Date of reading: 06/03/2015
European doctorate: No
- 14** **Project title:** NHC-Based multifunctional catalysts of Ru, Ir and Rh in C-H bond activation processes
Type of project: Doctoral thesis
Co-director of thesis: Eduardo Víctor Peris Fajarnés
Entity: Universitat Jaume I **Type of entity:** University
City of entity: Castellón, Valencian Community, Spain
Student: Amparo Prades Ferrer
Obtained qualification: Apte Cum Laude
Date of reading: 28/06/2012
European doctorate: No

Materials and other teaching or educational publications.

- 1** José Antonio Mata Martínez; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. Laboratory Manual. Inorganic Chemistry III Q0924 (352), Publicacions de la Universitat Jaume I. 2011. ISBN -
Legal deposit: CS-272-2011
Format: Book
Degree of contribution: Author or co-author of entire book
Position of signature: 2
- 2** Macarena Poyatos de Lorenzo; Beatriz Julián López. Empleo del visualizador gráfico Jmol en las clases de simetría molecular, REVISTA DE FORMACION E INNOVACION EDUCATIVA UNIVERSITARIA. 4(7), pp. 227 - 232. 2014. ISSN 1989-0257
Format: Article(s)
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Position of signature: 1



Scientific and technological experience

Research and development groups/teams

Name of the group: Química Organometálica y Catálisis Homogénea

Aims of the group: Obtención de compuestos organometálicos con propiedades ópticas no lineales. Síntesis catalítica de metalodendrimeros derivados de ferroceno. Diseño de catalizadores termoestables con ligandos pinza

Name of principal investigator: Eduardo Víctor Peris Fajarnés

Number of members in the group: 8

Standardised code: 138

City of group: Castellón de la Plana, Valencian Community, Spain

Affiliation entity: Universitat Jaume I

Start date: 29/07/2009

Duration: 83 months

Scientific or technological activities

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

- 1 Name of the project:** A combined theoretical and experimental approach to the rational design of high value chemicals with implications for biotherapeutic engineering

Entity where project took place: UNIVERSITAT JAUME I

Type of entity: University

City of entity: Castellón, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Macarena Poyatos; Vicente Moliner

Start-End date: 01/01/2022 - 31/12/2025

Total amount: 574.619,64 €
- 2 Name of the project:** LIGANDOS INTELIGENTES PARA LA REDUCCIÓN DE CO₂

Entity where project took place: Universitat Jaume I

Type of entity: University

Nº of researchers: 3

Funding entity or bodies: Agencia Estatal de Investigación

Start-End date: 01/12/2022 - 30/09/2025

Total amount: 183.655 €
- 3 Name of the project:** Smart N-Heterocyclic Carbenes for Supramolecular Assemblies and Switchable Catalysts

Entity where project took place: Universitat Jaume I

Type of entity: University

City of entity: Castellón, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Macarena Poyatos; Eduardo Peris

Nº of researchers: 3

Funding entity or bodies: Agencia Estatal de Investigación



Start-End date: 01/09/2022 - 31/08/2025

Total amount: 193.600 €

4 Name of the project: SUPRAMOLECULAR ORGANOMETALLIC STRUCTURES FOR CATALYSIS AND MOLECULAR RECOGNITION (SUPRACAT)

Entity where project took place: Universitat Jaume I **Type of entity:** University

City of entity: Castelló, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Eduardo Peris Poyatos; Macarena Poyatos Lorenzo

Nº of researchers: 2

Funding entity or bodies:

MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES

Start-End date: 01/01/2019 - 31/12/2021

Total amount: 145.200 €

5 Name of the project: Complejos poliaromáticos de Au(I) alquinilo: síntesis y propiedades fotofísicas

Entity where project took place: Universitat Jaume I **Type of entity:** University

City of entity: Castelló, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Macarena Poyatos Lorenzo; Beatriz Julián López; Eduardo Peris Fajarnés

Nº of researchers: 3

Funding entity or bodies:

Generalitat Valenciana

Type of entity: Conselleria d'Educació, Cultura i Esport

City funding entity: Valencia, Valencian Community, Spain

Start-End date: 01/01/2019 - 31/12/2020

Total amount: 40.000 €

6 Name of the project: Diseño de ligandos NHC poliaromáticos capaces de coordinar en forma bis-pinza. Propiedades catalíticas y fotofísicas

Entity where project took place: Universitat Jaume I **Type of entity:** University

City of entity: Castellon, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): 1; Macarena Poyatos Lorenzo

Nº of researchers: 2

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

Total amount: 25.813 €

7 Name of the project: DISEÑO DE SISTEMAS POLIAROMÁTICOS PARA LA PREPARACIÓN DE CATALIZADORES QUE INCORPORAN UN CENTRO REDOX

Geographical area: Projecte d'Investigació Local

Degree of contribution: Scientific coordinator

Entity where project took place: Universitat Jaume I

Name principal investigator (PI, Co-PI....): Macarena Poyatos

Nº of researchers: 4

Funding entity or bodies:

Universidad Jaime I

Type of entity: UNIVERSIDAD

City funding entity: Castelló de la Plana, Valencian Community, Spain



Name of the programme: CONVOCATORIA DE PROYECTOS DE INVESTIGACIÓN CIENTÍFICA Y DESARROLLO TECNOLÓGICO DEL PLAN DE PROMOCIÓN DE LA INVESTIGACIÓN DE LA UJI 2015 *
Modalitat B) Projectes d'investigació i desenvolupament tecnològic

Code according to the funding entity: P1·1B2015-24

Start-End date: 01/01/2016 - 31/12/2018

Duration: 36 months

Total amount: 39.872 €

8 Name of the project: LIGANDOS POLIAROMÁTICOS PARA EL DISEÑO DE CATALIZADORES MEJORADOS

Geographical area: Projecte d'Investigació Nacional

Degree of contribution: Scientific coordinator

Entity where project took place: Universitat Jaume I

Name principal investigator (PI, Co-PI....): Eduardo Peris; Macarena Poyatos

Nº of researchers: 2

Funding entity or bodies:

MINISTERIO DE ECONOMIA Y COMPETITIVIDAD **Type of entity:** ADMINISTRACIÓN CENTRAL

City funding entity: Madrid, Spain

Name of the programme: CONVOCATORIA DE AYUDAS CORRESPONDIENTES AL PROGRAMA ESTATAL FOMENTO DE LA INVESTIGACIÓN CIENTÍFICA Y TÉCNICA DE EXCELENCIA, SUBPROGRAMA ESTATAL DE GENERACIÓN DE CONOCIMIENTO 2014 * Proyectos del departamento DTMA (áreas BIA, CGL, CTM, CTQ, ENE, TRA)

Code according to the funding entity: CTQ2014-51999-P

Start-End date: 01/01/2015 - 31/12/2017

Duration: 36 months

Total amount: 138.000 €

Dedication regime: Full time

9 Name of the project: NITRENIUM-MESOIONIC CARBENE BASED DITOPIC CATALYSTS: APPLICATIONS IN CASCADE REACTIONS AND CO2 ACTIVATION FOR THE PREPARATION OF ACTIVE PHARMACEUTIC

Geographical area: Projecte d'Investigació Autònomic

Degree of contribution: Researcher

Entity where project took place: Universitat Jaume I

Name principal investigator (PI, Co-PI....): Gregorio Guisado Barrios

Nº of researchers: 6

Funding entity or bodies:

Generalitat Valenciana CONSELLERIA D'EDUCACIO, CULTURA I ESPORT

Type of entity: ADMINISTRACIÓN AUTONÓMICA

City funding entity: València, Spain

Name of the programme: CONVOCATORIA DE DIFERENTES TIPOS DE AYUDAS DE LA CONSELLERIA DE EDUCACIÓN, CULTURA Y DEPORTE DE LA GENERALIDAD VALENCIANA *
Projectes d'I+D emergents

Code according to the funding entity: GV/2015/097

Start-End date: 01/01/2015 - 31/12/2016

Duration: 24 months

Total amount: 12.000 €

10 Name of the project: Desarrollo de OLEDs a partir de sistemas policonjugados con carbenos N-heterocíclicos (OLEDs from NHCs)

Entity where project took place: Universidad Jaime I **Type of entity:** University

City of entity: Castellón, Valencian Community, Spain

Name principal investigator (PI, Co-PI....): Macarena Poyatos; Sergio Gonell; Eduardo Peris; Germà García; Antonio Guerrero

**Nº of researchers:** 5**Start-End date:** 01/01/2014 - 31/12/2015**Total amount:** 38.000 €**11 Name of the project:** LIGANDOS POLITOPICOS PARA LA PREPARACION DE CATALIZADORES MEJORADOS Y MATERIALES AVANZADOS**Geographical area:** Projecte d'Investigació Nacional**Degree of contribution:** Researcher**Entity where project took place:** Universitat Jaume I**Name principal investigator (PI, Co-PI....):** Eduardo Peris**Nº of researchers:** 12**Funding entity or bodies:**

MINISTERIO DE CIENCIA E INNOVACION

Type of entity: ADMINISTRACIÓN CENTRAL**City funding entity:** Madrid, Spain**Name of the programme:** CONVOCATORIA DE AYUDAS PARA LA REALIZACION DE PROYECTOS DE INVESTIGACIÓN Y ACCIONES COMPLEMENTARIAS DENTRO DEL PROGRAMA NACIONAL DE PROYECTOS DE INVESTIGACION FUNDAMENTAL PARA EL AÑO 2011 * Proyectos áreas ANEP: TM, INF, ICI, IEL, IME, MTM, QMC, COM, TQ**Code according to the funding entity:** CTQ2011-24055**Start-End date:** 01/01/2012 - 30/06/2015**Duration:** 42 months**Total amount:** 193.600 €**Dedication regime:** Full time**12 Name of the project:** DISEÑO DE NUEVOS CATALIZADORES HOMOGENEOS PARA LA FUNCIONALIZACION HETEROATOMO-DIRIGIDA DE ARENOS**Geographical area:** Projecte d'Investigació Local**Degree of contribution:** Scientific coordinator**Entity where project took place:** Universitat Jaume I**Name principal investigator (PI, Co-PI....):** Macarena Poyatos**Nº of researchers:** 3**Funding entity or bodies:**

Universidad Jaime I

Type of entity: UNIVERSIDAD**City funding entity:** Castelló de la Plana, Valencian Community, Spain**Name of the programme:** CONVOCATORIA DE PROYECTOS DE INVESTIGACION CIENTIFICA Y DESARROLLO TECNOLÓGICO 2011 * Modalitat B: Projectes Consolidats**Code according to the funding entity:** P1·1B2011-22**Start-End date:** 01/01/2012 - 31/12/2014**Duration:** 36 months**Total amount:** 32.944,12 €**13 Name of the project:** DISEÑO DE CATALIZADORES MULTIOPTICOS Y PREPARACION DE MOLECULAS ORGANICAS POR CATALISIS TANDEM. ACTIVACION DE CO2 Y APLICACIONES BIOMEDICAS DE LOS COMPUESTOS OBTENIDOS. SOLICITUD: 869804461-4461-4-8**Geographical area:** Projecte d'Investigació Nacional**Degree of contribution:** Researcher**Entity where project took place:** Universitat Jaume I**Name principal investigator (PI, Co-PI....):** Eduardo Víctor Peris Fajarnés**Nº of researchers:** 10**Funding entity or bodies:**

MINISTERIO DE EDUCACION, CULTURA Y DEPORTE

Type of entity: ADMINISTRACIÓN CENTRAL**City funding entity:** Madrid, Spain



Name of the programme: CONVOCATORIA PARA LA REALIZACION DE PROYECTOS DE INVESTIGACION, PROGRAMAS DE ACTIVIDAD INVESTIGADORA Y ACCIONES COMPLEMENTARIAS DENTRO DEL PROGRAMA NACIONAL DE PROYECTOS DE INVESTIGACION FUNDAMENTAL EN EL MARCO DEL VI PLAN NACIONAL DE INVESTIGACION CIENTIFICA, DESARROLLO E INNOVACION TECNOLOGICA 2008-2011. * Subprograma de Proyectos de Investigación Fundamental no orientada en las áreas de: ICI, IEL, IME, INF, MAM,QMC, TM, COM, TQ.

Code according to the funding entity: CTQ2008-04460/BQU

Start-End date: 01/01/2009 - 31/12/2011

Duration: 36 months

Total amount: 141.570 €

Dedication regime: Full time

- 14 Name of the project:** DISEÑO DE CATALIZADORES BASADOS EN LIGANDOS CARBENO N-HETEROCICLICO: DISEÑO DE MATERIALES PARA EL ALMACENAMIENTO DE HIDROGENO Y OBTENCION DE CATALIZADORES RECICLABLES

Geographical area: Projecte d'Investigació Local

Degree of contribution: Scientific coordinator

Entity where project took place: Universitat Jaume I

Name principal investigator (PI, Co-PI....): Macarena Poyatos

Nº of researchers: 2

Funding entity or bodies:

Universidad Jaime I

Type of entity: UNIVERSIDAD

City funding entity: Castelló de la Plana, Valencian Community, Spain

Name of the programme: PLAN DE PROMOCION DE LA INVESTIGACION EN LA UNIVERSITAT JAUME I DE CASTELLON, AÑO 2008 * Projectes d'investigació científica i desenvolupament tecnològic (Emergents)

Code according to the funding entity: P1·1A2008-02

Start-End date: 10/12/2008 - 09/12/2011

Duration: 36 months

Total amount: 24.700 €

- 15 Name of the project:** STABLE CARBENES FOR THE ACTIVATION OF CO2 (SCAC)

Geographical area: Acció complementaria a projecte d'investigació

Degree of contribution: Researcher

Entity where project took place: Universitat Jaume I

Name principal investigator (PI, Co-PI....): Eduardo Víctor Peris Fajarnés

Nº of researchers: 3

Funding entity or bodies:

MINISTERIO DE EDUCACION, CULTURA Y DEPORTE

Type of entity: ADMINISTRACIÓN CENTRAL

City funding entity: Madrid, Spain

Name of the programme: CONVOCATORIA DE AYUDAS PARA LA REALIZACION DE ACCIONES COMPLEMENTARIAS EN EL MARCO DE ALGUNOS PROGRAMAS NACIONALES (2007) * Ayudas complementarias para proyectos de investigación aprobados y en ejecución del Programa Marco de la UE

Code according to the funding entity: CTQ2007-31175-E

Start-End date: 01/04/2008 - 31/03/2011

Duration: 36 months

Total amount: 90.000 €

- 16 Name of the project:** DISEÑO, SINTESIS Y CARACTERIZACION DE CATALIZADORES BASADOS EN COMPUESTOS METALICOS CON LIGANDOS NHC FORMANDO PARTE INTEGRAL DE LA ESTRUCTURA DE MATERIALES HIBRIDOS ORGANICOS INORGANICOS MESOPOROSOS

Geographical area: Projecte d'Investigació Autònomic

Degree of contribution: Scientific coordinator



Entity where project took place: Universitat Jaume I

Name principal investigator (PI, Co-PI....): Macarena Poyatos

Nº of researchers: 5

Funding entity or bodies:

Generalitat Valenciana CONSELLERIA D'EDUCACIO **Type of entity:** ADMINISTRACIÓN AUTONÓMICA

City funding entity: València, Spain

Name of the programme: CONVOCATORIA DIFERENTES TIPOS DE AYUDAS PARA EL FOMENTO DE LA INVESTIGACIÓN EN LA C.VALENCIANA (PREDOCTORALES, ESTANCIAS BECARIOS GV, MOVILIDAD PDI, ORGANIZACION Y DIFUSION CONGRESOS Y PROYECTOS PRECOMPETITIVOS. * Projectes precompetitius d'I+D per a equips d'investigació

Code according to the funding entity: GVPRE/2008/296

Start-End date: 01/01/2008 - 31/12/2008

Duration: 12 months

Total amount: 15.500 €

17 Name of the project: ESTUDIO DE PROCESOS DE FORMACION DE COMPUESTOS CON LIGANDOS DE TIPO CARBENO N-HETEROCICLICO. APLICACIONES EN PROCESOS DE ACTIVACION C-H Y EN CATALISIS ASIMETRICA

Geographical area: Projecte d'Investigació Nacional

Degree of contribution: Researcher

Entity where project took place: Universitat Jaume I

Name principal investigator (PI, Co-PI....): Eduardo Víctor Peris Fajarnés

Nº of researchers: 7

Funding entity or bodies:

MINISTERIO DE EDUCACION, CULTURA Y DEPORTE

Type of entity: ADMINISTRACIÓN CENTRAL

City funding entity: Madrid, Spain

Name of the programme: CONVOCATORIA DE AYUDAS PARA LA REALIZACION DE PROYECTOS DE INVESTIGACION EN EL MARCO DE ALGUNOS PROGRAMAS NACIONALES DEL PLAN NACIONAL DE I+D+I 2004-2007. * Proyectos de Investigación en el marco de los Programas Nacionales de Biotecnología, Biología Fundamental, Energía, Medios de Transporte, Construcción, Ciencias y Tecnol. Químicas, Diseño y Producción Industrial, Astronomía y Astrofísica, Matemáticas, Tecnol. Informáticas y Ciencias Sociales, Económicas y Jurídicas.

Code according to the funding entity: CTQ2005-05187

Start-End date: 31/12/2005 - 31/12/2008

Duration: 36 months

Total amount: 66.045 €

Dedication regime: Full time

18 Name of the project: DISEÑO DE CATALIZADORES HOMOGENEOS BASADOS EN LIGANDOS BIS- Y TRIDENTADOS N-HETEROCICLICO

Geographical area: Projecte d'Investigació Local

Degree of contribution: Researcher

Entity where project took place: Universitat Jaume I

Name principal investigator (PI, Co-PI....): Eduardo Víctor Peris Fajarnés

Nº of researchers: 6

Funding entity or bodies:

Universidad Jaime I

Type of entity: UNIVERSIDAD

City funding entity: Castelló de la Plana, Spain

Name of the programme: PLAN DE PROMOCION DE LA INVESTIGACION EN LA UNIVERSITAT JAUME I PARA EL AÑO 2004. * PROYECTOS DE INVESTIGACION GRUPOS CONSOLIDADOS (MODALIDAD B)

Code according to the funding entity: P1·1B2004-07

Start-End date: 01/12/2004 - 30/11/2007

Duration: 36 months



Total amount: 35.800 €

19 Name of the project: ACTIVACION Y FUNCIONALIZACION DE ALCANOS MEDIANTE LA UTILIZACION DE CATALIZADORES CON LIGANDOS CARBENO N-HETEROCICLICOS

Geographical area: Projecte d'Investigació Autònomic

Degree of contribution: Researcher

Entity where project took place: Universitat Jaume I

Name principal investigator (PI, Co-PI....): José Antonio Mata Martínez

Nº of researchers: 4

Funding entity or bodies:

Generalitat Valenciana D.G. D'INVESTIGACIÓ I TRANSF.TECNOLÒGICA

Type of entity: ADMINISTRACIÓN AUTONÓMICA

City funding entity: València, Spain

Name of the programme: CONVOCATORIA DE LA CONSELLERIA D'EMPRESA, UNIVERSITAT I CIENCIA DE DIFERENT TIPUS D'AJUDES PER AL FOMENT DE LA INVESTIGACIO CIENTIFICA I EL DESENVOLUPAMENT TECNOLÓGIC A LA C.VALENCIANA PER A L'ANY 2005. * Projectes d'Investigació per a grups emergents o de recent creació

Code according to the funding entity: GV05/107

Start-End date: 01/01/2005 - 31/12/2006

Duration: 24 months

Total amount: 10.535 €

20 Name of the project: Acción Integrada España-Portugal.

Name principal investigator (PI, Co-PI....): Eduardo Peris Fajarnés

Funding entity or bodies:

Ministerio de Educación y Ciencia (ref.: HP2004-0019)

21 Name of the project: Activación y funcionalización de alcanos mediante la utilización de catalizadores con ligandos carbene N-heterocíclicos.

Name principal investigator (PI, Co-PI....): Jose A. Mata Martínez

Funding entity or bodies:

Generalitat Valenciana (ref.: GV05/107)

22 Name of the project: Diseño de Catalizadores con Ligandos Tripodales Basados en Carbenos N-Heterocíclicos. Obtención de Sistemas Reciclables y Preparación de Catalizadores Quirales.

Name principal investigator (PI, Co-PI....): Eduardo Peris Fajarnés

Funding entity or bodies:

Generalitat Valenciana (ref.: GV04-017)

23 Name of the project: Diseño de catalizadores basados en ligandos carbene N-heterocíclico: diseño de materiales para el almacenamiento de hidrógeno y obtención de catalizadores reciclables.

Name principal investigator (PI, Co-PI....): Macarena Poyatos Lorenzo

Funding entity or bodies:

Bancaixa-UJI (ref: P1.1A2008-02)

24 Name of the project: Diseño de catalizadores termoestables homogéneos basados en ligandos bis- y tridentados carbene-N-heterocíclico.

Name principal investigator (PI, Co-PI....): Eduardo Peris Fajarnés

Funding entity or bodies:

Bancaixa-UJI (ref.: P1.1B2004-07)



- 25** **Name of the project:** Diseño de catalizadores termoestables homogéneos de Pd y Ru para reacciones de Heck, metátesis y ciclopropanación.
Name principal investigator (PI, Co-PI....): Eduardo Peris Fajarnés
Funding entity or bodies:
Bancaixa-UJI
- 26** **Name of the project:** Diseño de nuevos catalizadores homogéneos para la funcionalización heteroátomo dirigida de arenos.
Name principal investigator (PI, Co-PI....): Macarena Poyatos Lorenzo
Funding entity or bodies:
Bancaixa-UJI (ref: P1.1B2011-22)
- 27** **Name of the project:** Diseño, síntesis y caracterización de catalizadores basados en compuestos metálicos con ligandos NHC formando parte integral de la estructura de materiales híbridos orgánicos-inorgánicos mesoporosos.
Name principal investigator (PI, Co-PI....): Macarena Poyatos Lorenzo
Funding entity or bodies:
Generalitat Valenciana (ref: GVPRE/2008/296)
- 28** **Name of the project:** Estudio teórico de mecanismos de reacción de enzimas utilizando métodos híbridos que combinan mecánica cuántica con mecánica molecular.
Name principal investigator (PI, Co-PI....): Vicente Moliner Ibáñez
Funding entity or bodies:
Bancaixa-UJI (ref.: PB0103201/1)
- 29** **Name of the project:** Síntesis y estudio de la actividad catalítica de nuevos catalizadores con ligandos quirales, pinza y C3. Heterogeneización en matrices sólidas.
Name principal investigator (PI, Co-PI....): Eduardo Peris Fajarnés
Funding entity or bodies:
Ministerio de Ciencia y Tecnología (ref.: MAT2002-04421-C02-01)

Results

Industrial and intellectual property

- 1** **Title registered industrial property:** Sales de pireno-bis-imidazolio
Inventors/authors/obtainers: Macarena Poyatos; Sergio Gonell; Eduardo Peris
Entity holder of rights: Universitat Jaume I
Country of inscription: Spain
Date of register: 10/09/2013
- 2** **Title registered industrial property:** Derivados de trisimidazolio
Inventors/authors/obtainers: Macarena Poyatos; Sergio Gonell; Eduardo Peris
Entity holder of rights: Universitat Jaume I
Country of inscription: Spain
Date of register: 21/12/2012

Scientific and technological activities

Scientific production

H index: 39

Date of application: 08/12/2024

Source of H-Index: WOS

Publications, scientific and technical documents

- 1** Gold(I) Complex with a Photoactive Ligand Behaves as a Two-in-One Dual Metallaphotoredox Cross-Coupling Catalyst. 2024.
Type of production: Scientific paper
- 2** Lone-Pair- π Bond Strength Unveiled by a Combined Experimental and Computational Study. 2024.
Type of production: Scientific paper
- 3** NHC Ligands in Organometallic Chemistry and Catalysis. 2024.
Type of production: Scientific paper
- 4** "Anion-Switchable" Pincer-Mn(I) Catalyst for the Reductive N-Methylation of Amines with Formic Acid and CO₂. 2024.
Type of production: Scientific paper
- 5** Dehydrative Coupling of Alcohols by Iridium(III) Complexes with N-Heterocyclic-Pyridine Chelating Ligands Decorated with Naphthalene-Diimide. 2023.
Type of production: Scientific paper
- 6** Supramolecular Control of the Oxidative Addition as a Way To Improve the Catalytic Efficiency of Pincer-Rhodium (I) Complexes. 2023.
Type of production: Scientific paper
- 7** Tuning the Catalytic Activity of a Pincer Complex of Rhodium(I) by Supramolecular and Redox Stimuli. 2023.
Type of production: Scientific paper
- 8** A Redox-Switchable Gold(I) Complex for the Hydroamination of Acetylenes: A Convenient Way for Studying Ligand-Derived Electronic Effects. 2022.
Type of production: Scientific paper
- 9** A redox-switchable catalyst with an 'unplugged' redox tag. 2022.
Type of production: Scientific paper
- 10** Redox-Switchable Complexes Based on Nanographene-NHCs. 2022.
Type of production: Scientific paper



- 11** Insights into the past and future of Janus-di-N-heterocyclic carbenes. 2021.
Type of production: Scientific paper
- 12** Redox-Switchable Cycloisomerization of Alkynoic Acids with Napthalenediimide-Derived N-Heterocyclic Carbene Complexes. 2021.
Type of production: Scientific paper
- 13** A Twisted Tetragold Cyclophane from a Fused Bis-Imidazolindiyliene. 2020.
Type of production: Scientific paper
- 14** Ligand & band gap engineering: tailoring the protocol synthesis for achieving high-quality CsPbI₃ quantum dots. 2020.
Type of production: Scientific paper
- 15** N-Heterocyclic Carbenes: A Door Open to Supramolecular Organometallic Chemistry. 2020.
Type of production: Scientific paper
- 16** Structural Features of Mono- and Dimetallic Complexes of Palladium Combining Two Types of Aromatic NHC Ligands. 2019.
Type of production: Scientific paper
- 17** The Complex Coordination Landscape of a Digold(I) U-Shaped Metalloligand. 2019.
Type of production: Scientific paper
- 18** Pyrene-Connected Tetraimidazolyliene Complexes of Iridium and Rhodium. Structural Features and Catalytic Applications. 2018.
Type of production: Scientific paper
- 19** Tetra-Au(I) Complexes Bearing a Pyrene Tetraalkynyl Connector Behave as Fluorescence Torches. 2018.
Type of production: Scientific paper
- 20** A D_{3h}-symmetry hexaazatriphenylene-tris-N-heterocyclic carbene ligand and its coordination to iridium and gold: preliminary catalytic studies. 2017.
Type of production: Scientific paper
- 21** Cation-driven self-assembly of a gold(I)-based metallo-tweezer. 2017.
Type of production: Scientific paper
- 22** Cation-Driven Self-Assembly of a Gold(I)-Based Metallo-Tweezer. 2017.
Type of production: Scientific paper
- 23** Gold catalysts with polyaromatic-NHC ligands. Enhancement of activity by addition of pyrene. 2017.
Type of production: Scientific paper
- 24** Gold(I) Metallo-Tweezers for the Recognition of Functionalized Polycyclic Aromatic Hydrocarbons by Combined π - π Stacking and H-Bonding. 2017.
Type of production: Scientific paper



- 25** Platinum-Based Organometallic Folders for the Recognition of Electron-Deficient Aromatic Substrates. 2017.
Type of production: Scientific paper
- 26** A Ferrocenyl-Benzo-Fused Imidazolylidene Complex of Ruthenium as Redox-Switchable Catalyst for the Transfer Hydrogenation of Ketones and Imines. 2016.
Type of production: Scientific paper
- 27** Ferrocenyl-Imidazolylidene Ligand for Redox-Switchable Gold-Based Catalysis. A Detailed Study on the Redox-Switching Abilities of the Ligand. 2016.
Type of production: Scientific paper
- 28** Mono and dimetallic pyrene-imidazolylidene complexes of iridium(III) for the deuteration of organic substrates and the C-C coupling of alcohols. 2016.
Type of production: Scientific paper
- 29** Pincer-CNC mononuclear, dinuclear and heterodinuclear Au(III) and Pt(II) complexes supported by mono- and poly-N-heterocyclic carbenes: Synthesis and photophysical properties. 2016.
Type of production: Scientific paper
- 30** A nanosized Janus bis-N-heterocyclic carbene ligand based on a quinoxalinophenanthrophenazine core, and its coordination to iridium. 2015.
Type of production: Scientific paper
- 31** Experimental and theoretical approaches to the influence of the addition of pyrene to a series of Pd and Ni NHC-based complexes: Catalytic consequences. 2015.
Type of production: Scientific paper
- 32** Fluorescent Pyrene-Based Bis-azole Compounds: Synthesis and Photophysical Analysis. 2015.
Type of production: Scientific paper
- 33** Postmodification of the electronic properties by addition of π -stacking additives in N-heterocyclic carbene complexes with extended polyaromatic systems. 2015.
Type of production: Scientific paper
- 34** A pyrene-based N-heterocyclic carbene: Study of its coordination chemistry and stereoelectronic properties. 2014.
Type of production: Scientific paper
- 35** Main-chain organometallic microporous polymers bearing triphenylene-tris(N- heterocyclic carbene)-gold species: Catalytic properties. 2014.
Type of production: Scientific paper
- 36** Pyrene-based bisazolium salts: From luminescence properties to Janus-type bis-N-heterocyclic carbenes. 2014.
Type of production: Scientific paper
- 37** A tetracyclic bis(imidazolindiyliidene) ligand and its diiridium and dipalladium complexes. 2013.
Type of production: Scientific paper



- 38** Rhodium-NHC complexes mediate diboration versus dehydrogenative borylation of cyclic olefins: A theoretical explanation. 2013.
Type of production: Scientific paper
- 39** Triphenylene-based tris(N-heterocyclic carbene) ligand: Unexpected catalytic benefits. 2013.
Type of production: Scientific paper
- 40** Unveiling the stereoelectronic properties of a triphenylene-based tris N-heterocyclic carbene. 2013.
Type of production: Scientific paper
- 41** Imidazolidines as hydride sources for the formation of late transition-metal monohydrides. 2012.
Type of production: Scientific paper
- 42** Y-shaped tris-N-heterocyclic-carbene ligand for the preparation of multifunctional catalysts of iridium, rhodium, and palladium. 2012.
Type of production: Scientific paper
- 43** A Y-shaped tris-N-heterocyclic carbene for the synthesis of simultaneously chelate-monodentate dipalladium complexes. 2011.
Type of production: Scientific paper
- 44** Double C-H bond activation of C(sp³)H₂ groups for the preparation of complexes with back-to-back bisimidazolynilidenes. 2011.
Type of production: Scientific paper
- 45** Palladium catalysts with sulfonate-functionalized-NHC ligands for Suzuki-Miyaura cross-coupling reactions in water. 2011.
Type of production: Scientific paper
- 46** Recent developments in the applications of palladium complexes bearing n-heterocyclic carbene ligands. 2011.
Type of production: Scientific paper
- 47** Synthesis and properties of chelating N-heterocyclic carbene rhodium(I) complexes: Synthetic experiments in current organometallic chemistry. 2011.
Type of production: Scientific paper
- 48** (η⁶-arene)ruthenium(N-heterocyclic carbene) complexes for the chelation-assisted arylation and deuteration of arylpyridines: Catalytic studies and mechanistic insights. 2010.
Type of production: Scientific paper
- 49** Biomedical properties of a series of Ruthenium-N-heterocyclic carbene complexes based on oxidant activity in vitro and assessment in vivo of biosafety in zebrafish embryos. 2010.
Type of production: Scientific paper
- 50** A simple catalyst for the efficient benzylation of arenes by using alcohols, ethers, styrenes, aldehydes, or ketones. 2009.
Type of production: Scientific paper

- 51** Complexes with poly(N-heterocyclic carbene) ligands: Structural features and catalytic applications. 2009.
Type of production: Scientific paper
- 52** A weak donor, planar chelating bitriazole N-heterocyclic carbene ligand for ruthenium(II), palladium(II), and rhodium. 2008.
Type of production: Scientific paper
- 53** Acetylacetonate anchors for robust functionalization of TiO₂ nanoparticles with Mn(II)-terpyridine complexes. 2008.
Type of production: Scientific paper
- 54** [IrCl₂Cp*(NHC)] complexes as highly versatile efficient catalysts for the cross-coupling of alcohols and amines. 2008.
Type of production: Scientific paper
- 55** A planar chelating bitriazole N-heterocyclic carbene ligand and its rhodium(III) and dirhodium(II) complexes. 2007.
Type of production: Scientific paper
- 56** Shaping and enforcing coordination spheres: The implications of C₃ and C₁ chirality in the coordination chemistry of 1,1,1-Tris(oxazoliny)ethane ("Trisox"). 2007.
Type of production: Scientific paper
- 57** Structural and catalytic properties of chelating bis- and tris-N-heterocyclic carbenes. 2007.
Type of production: Scientific paper
- 58** C-H oxidative addition of bisimidazolium salts to iridium and rhodium complexes, and N-heterocyclic carbene generation. A combined experimental and theoretical study. 2006.
Type of production: Scientific paper
- 59** Can the disproportion of oxidation state III be favored in Ru II-OH₂/RuIV=O systems?. 2006.
Type of production: Scientific paper
- 60** Catalysed low temperature H₂ release from nitrogen heterocycles. 2006.
Type of production: Scientific paper
- 61** Coinage metal complexes with N-heterocyclic carbene ligands as selective catalysts in diboration reaction. 2006.
Type of production: Scientific paper
- 62** Coordination chemistry of a modular N,C-chelating oxazole-carbene ligand and its applications in hydrosilylation catalysis. 2006.
Type of production: Scientific paper
- 63** Synthesis and structural chemistry of arene-ruthenium half-sandwich complexes bearing an oxazoliny-carbene ligand. 2006.
Type of production: Scientific paper
- 64** An N-heterocyclic carbene/iridium hydride complex from the oxidative addition of a ferrocenyl-bisimidazolium salt: Implications for synthesis. 2005.
Type of production: Scientific paper



- 65** A new rhodium(III) complex with a tripodal bis(imidazolylidene) ligand. Synthesis and catalytic properties. 2004.
Type of production: Scientific paper
- 66** Carbene Complexes of Rhodium and Iridium from Tripodal N-Heterocyclic Carbene Ligands: Synthesis and Catalytic Properties. 2004.
Type of production: Scientific paper
- 67** Reactivity Differences in the Syntheses of Chelating N-Heterocyclic Carbene Complexes of Rhodium Are Ascribed to Ligand Anisotropy. 2004.
Type of production: Scientific paper
- 68** Synthesis and Reactivity of New Chelate-N-Heterocyclic Biscarbene Complexes of Ruthenium. 2004.
Type of production: Scientific paper
- 69** New Rh(I) and Rh(III) bisimidazol-2-ylidene complexes: Synthesis, reactivity, and molecular structures. 2003.
Type of production: Scientific paper
- 70** New ruthenium(II) CNC-pincer bis(carbene) complexes: Synthesis and catalytic activity. 2003.
Type of production: Scientific paper
- 71** Preparation of a new clay-immobilized highly stable palladium catalyst and its efficient recyclability in the Heck reaction. 2003.
Type of production: Scientific paper
- 72** Synthesis of a dirhodium(I) bisimidazolium carbene complex and catalytic activity toward hydroformylation of olefins. High-pressure NMR spectroscopy of the catalyst under catalytic conditions. 2003.
Type of production: Scientific paper
- 73** Synthesis, reactivity, crystal structures and catalytic activity of new chelating bisimidazolium-carbene complexes of Rh. 2003.
Type of production: Scientific paper
- 74** Recent Developments in the Synthesis and Applications of Rhodium and Iridium Complexes Bearing N-Heterocyclic Carbene Ligands. 2014.
Type of production: Scientific book or monograph

Works submitted to national or international conferences

- 1** **Title of the work:** Redox-switchable catalysis with naphthalenediimide-derived NHC complexes
Name of the conference: XL Reunión del Grupo Especializado de Química Organometálica
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Barcelona, Spain
Date of event: 07/09/2022
End date: 09/09/2022



- 2** **Title of the work:** Redox-switchable catalysis with naphthalenediimide-derived NHC complexes
Name of the conference: 29th International Conference on Organometallic Chemistry
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Prague, Czech Republic
Date of event: 17/07/2022
End date: 22/07/2022
City organizing entity: Prague, Czech Republic
- 3** **Title of the work:** Pyrene-based Au(I) complexes: from molecular catalysts to highly fluorescent materials
Name of the conference: ICOMC 2018
Type of event: Conference
Geographical area: European Union
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Florence, Italy
Date of event: 16/07/2018
End date: 20/07/2018
Organising entity: Institute of Chemistry of Organometallic Compounds
Type of entity: University Research Institute
City organizing entity: Florence, Italy
With external admission assessment committee: Yes
- 4** **Title of the work:** Fc-based N-heterocyclic carbenes for the design of redox-switchable catalysts
Name of the conference: 11th Spanish-Italian Symposium on Organic Chemistry
Geographical area: European Union
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: San Sebastián, Basque Country, Spain
Date of event: 13/07/2016
End date: 15/07/2016
Organising entity: Real Sociedad Española de Química, Societa Chimica Italiana
City organizing entity: San Sebastián, Basque Country, Spain
Eduardo Peris Fajarnés; Macarena Poyatos Lorenzo; Susana Ibáñez Maella.
- 5** **Title of the work:** Fc-based N-heterocyclic carbenes for the design of redox-switchable catalysts
Name of the conference: IX International School on Organometallic Chemistry Marcial Moreno Mañas
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: San Sebastián, Basque Country, Spain
Date of event: 06/07/2016
End date: 08/07/2016
Eduardo Peris Fajarnés; Macarena Poyatos Lorenzo; Susana Ibáñez Maella.
- 6** **Title of the work:** Fc-based N-heterocyclic carbenes for the design of redox-switchable catalysts
Name of the conference: IX International School on Organometallic Chemistry Marcial Moreno Mañas
Type of event: Conference
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: San Sebastián, Basque Country, Spain



Date of event: 06/07/2016

End date: 08/07/2016

Eduardo Peris Fajarnés; Macarena Poyatos Lorenzo; Susana Ibáñez Maella.

- 7** **Title of the work:** A triphenylene based tris-NHC ligand: from improved catalytic properties to main-chain microporous organometallic polymers

Name of the conference: XI Simposio de Investigadores Jóvenes RSEQ-Sigma Aldrich

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Bilbao, (724), Spain

Date of event: 04/11/2014

Type of contribution: Book chapter

Sergio Gonell Gómez; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: XI Simposio de Investigadores Jóvenes RSEQ-Sigma Aldrich. (Spain): Universidad del País Vasco, Pag 52, PSC-2, 2014. ISBN 978-84-697-1492-8

- 8** **Title of the work:** Experimental and Theoretical Approaches to the Influence of the Addition of Pyrene to a Series of Pd and Ni NHC-Based Complexes: Catalytic Consequences (Pòster)

Name of the conference: XI Simposio de Investigadores Jóvenes RSEQ-Sigma Aldrich

Type of event: Conference

City of event: Bilbao, (724), Spain

Date of event: 04/11/2014

Type of contribution: Book chapter

Hugo Christian Valdés Rivas; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: XI Simposio de Investigadores Jóvenes RSEQ-Sigma Aldrich. (Spain): Universidad del País Vasco, P-26, Pag 136, 2014. ISBN 978-84-697-1492-8

- 9** **Title of the work:** Fluorescent pyrene-based azole compounds: synthesis and photophysical analysis (Pòster)

Name of the conference: XI Simposio de Investigadores Jóvenes RSEQ-Sigma Aldrich

Type of event: Conference

City of event: Bilbao, (724), Spain

Date of event: 04/11/2014

Type of contribution: Book chapter

Ibáñez S.; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: XI Simposio de Investigadores Jóvenes RSEQ-Sigma Aldrich. (Spain): Universidad del País Vasco, P22, Pag 132, 2014. ISBN 978-84-697-1492-8

- 10** **Title of the work:** A Pyrene-Based N[?]-HeterocyclicCarbene: Study of Its Coordination Chemistry and Stereoelectronic Properties (Pòster)

Name of the conference: XXXII Reunión del Grupo Especializado en Química Organometálica (GEOQ 2014)

Type of event: Conference

City of event: Tarragona, (724), Spain

Date of event: 17/09/2014

Type of contribution: Book chapter

Hugo Christian Valdés Rivas; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: XXXII Reunión del Grupo Especializado en Química Organometálica (GEOQ 2014). (Spain): GEOQ 2014, P52, Pag 102, 2014. ISBN 978-84-8424-340-3



- 11 Title of the work:** A Pyrene-Based N-Heterocyclic Carbene: Study of Its Coordination Chemistry and Stereoelectronic Properties (Pòster)
Name of the conference: XXXII Reunión del Grupo Especializado en Química Organometálica (GEOQ 2014)
Type of event: Conference
City of event: Tarragona, (724), Spain
Date of event: 17/09/2014
Type of contribution: Book chapter
Hugo Christian Valdés Rivas; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: XXXII Reunión del Grupo Especializado en Química Organometálica (GEOQ 2014). (Spain): GEOQ 2014, P52, Pag 102, 2014. ISBN 978-84-8424-340-3
- 12 Title of the work:** Fluorescent pyrene-based azole compounds: synthesis and photophysical analysis (Pòster)
Name of the conference: XXXII Reunión del Grupo Especializado en Química Organometálica (GEOQ 2014)
Type of event: Conference
City of event: Tarragona, (724), Spain
Date of event: 17/09/2014
Type of contribution: Book chapter
Ibáñez S.; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: XXXII Reunión del Grupo Especializado en Química Organometálica (GEOQ 2014). (Spain): GEOQ 2014, P87, Pag 137, 2014. ISBN 978-84-8424-340-3
- 13 Title of the work:** Pyrene-Based Bisazolium Salts: From Luminescence Properties to Janus-Type Bis-N-Heterocyclic Carbenes
Name of the conference: XXXII Reunión del Grupo Especializado en Química Organometálica (GEOQ 2014)
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Tarragona, Spain
Date of event: 17/09/2014
Sergio Gonell Gómez; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: XXXII Reunión del Grupo Especializado en Química Organometálica (GEOQ 2014). (Spain): GEOQ 2014, P139, Pag 189, 2014. ISBN 978-84-8424-340-3
- 14 Title of the work:** A novel bis-imidazolinium salt as precursor of a Janus-head-type NHC ligand
Name of the conference: XXX Reunión Grupo Especializado en Química Organometálica
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Castellón, (724), Spain
Date of event: 12/06/2012
Type of contribution: Book chapter
S. Acedo; Amparo Prades Ferrer; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: XXX Reunión Grupo Especializado en Química Organometálica. (Spain): Publicacions de la UJI, 2012. ISBN 978-84-8021-859-7
- 15 Title of the work:** Diseño y síntesis de un nuevo ligando tris-NHC con simetría D_{3h}
Name of the conference: XXX Reunión Grupo Especializado en Química Organometálica
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Castellón, (724), Spain



Date of event: 12/06/2012

Type of contribution: Book chapter

R. Gómez; Sergio Gonell Gómez; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: XXX Reunión Grupo Especializado en Química Organometálica. (Spain): Publicaciones de la UJI, 2012. ISBN 978-84-8021-859-7

- 16 Title of the work:** Synthesis of homo- and hetero-bimetallic compounds based on a y-shaped tris-NHC ligand

Name of the conference: XXX Reunión Grupo Especializado en Química Organometálica

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Castellón, (724), Spain

Date of event: 12/06/2012

Type of contribution: Book chapter

Sergio Gonell Gómez; Macarena Poyatos de Lorenzo; José Antonio Mata Martínez; Eduardo Víctor Peris Fajarnés. En: XXX Reunión Grupo Especializado en Química Organometálica. (Spain): Publicaciones de la UJI, 2012. ISBN 978-84-8021-859-7

- 17 Title of the work:** Diseño y coordinación de nuevos ligandos multitópicos: en busca de catalizadores multifuncionales

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

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Valencia, (724), Spain

Date of event: 25/07/2011

Macarena Poyatos de Lorenzo; Amparo Prades Ferrer; Sergio Gonell Gómez; José Antonio Mata Martínez; Eduardo Víctor Peris Fajarnés. En: XXXIII Reunión Bienal de la Real Sociedad Española de Química. 2011.

- 18 Title of the work:** Generación de complejos con nuevos ligandos NHC mediante doble activación de los hidrógenos geminales de un C(sp³)

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

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Valencia, (724), Spain

Date of event: 25/07/2011

Amparo Prades Ferrer; Macarena Poyatos de Lorenzo; José Antonio Mata Martínez; Eduardo Víctor Peris Fajarnés. En: XXXIII Reunión Bienal de la Real Sociedad Española de Química. 2011.

- 19 Title of the work:** New multitopic ligand based on N-heterocyclic carbenes and its coordination to Pd(II)
Name of the conference: XXXIII Reunión Bienal de la Real Sociedad Española de Química (RSEQ 2011)

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Valencia, (724), Spain

Date of event: 25/07/2011

Sergio Gonell Gómez; Macarena Poyatos de Lorenzo; José Antonio Mata Martínez; Eduardo Víctor Peris Fajarnés. En: XXXIII Reunión Bienal de la Real Sociedad Española de Química (RSEQ 2011). 2011.

- 20 Title of the work:** New multitopic ligand based on N-heterocyclic carbenes and its coordination to Pd(II)

Name of the conference: EUCOMC CONGRESS 2011

Type of event: Conference

Type of participation: Participatory - poster



City of event: Toulouse, Francia,

Date of event: 03/07/2011

Sergio Gonell Gómez; Macarena Poyatos de Lorenzo; José Antonio Mata Martínez; Eduardo Víctor Peris Fajarnés. En: EUCOMC CONGRESS 2011. 2011.

- 21 Title of the work:** Palladium catalysts with sulfonate-functionalized-NHC ligands for Suzuki-Miyaura cross-coupling reactions in water

Name of the conference: 2nd China-Spain bilateral symposium on catalysis

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Tarragona, (724), Spain

Date of event: 22/11/2010

Fernando Godoy; Sergio Gonell; Maria de la Candelaria Segarra Almela; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: 2nd China-Spain bilateral symposium on catalysis. 2010.

- 22 Title of the work:** Arilación y deuteración de arilpiridinas catalizadas por compuestos de tipo Complejos (6-areno)Ru(NHC)

Name of the conference: XXVIII Reunión del Grupo Especializado de Química Organometálica

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Punta Umbría (Huelva),

Date of event: 07/09/2010

Type of contribution: Book chapter

Amparo Prades Ferrer; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: XXVIII Reunión del Grupo Especializado de Química Organometálica. Univ. Huelva, 2010. ISBN 978-84-92944-16-3

- 23 Title of the work:** Diseño de compuestos hidrosolubles de Pd(II)

Name of the conference: XXVIII Reunión del Grupo Especializado de Química Organometálica

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Punta Umbría (Huelva),

Date of event: 07/09/2010

Type of contribution: Book chapter

Maria de la Candelaria Segarra Almela; S. Gonell; Macarena Poyatos de Lorenzo; F. Godoy; Eduardo Víctor Peris Fajarnés. En: XXVIII Reunión del Grupo Especializado de Química Organometálica. Univ. Huelva, 2010. ISBN 978-84-92944-16-3

- 24 Title of the work:** Cp*IrIII(NHC) complexes for the N-alkylation of amines and benzylation of arenes

Name of the conference: 3rd Workshop on Industry-Academia partnerships in catalysis

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Berlin Alemania,

Date of event: 26/09/2009

Amparo Prades Ferrer; Rosa Corberán Roc; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: 3rd Workshop on Industry-Academia partnerships in catalysis. 2009.

- 25 Title of the work:** Bencilación de arenos empleando alcoholes, éteres, estiremos, aldehídos o cetonas

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

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Oviedo,



Date of event: 13/09/2009

Amparo Prades Ferrer; Rosa Corberán Roc; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: XXXII Reunión Bienal de la Sociedad Española de Química. 2009.

- 26 Title of the work:** Propiedades biomédicas de complejos de Ru(II)-NHC: Estudio de la Actividad oxidante In Vitro y de la Bioseguridad In Vivo empleando embriones de pez cebra

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

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Oviedo,

Date of event: 13/09/2009

Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés; Amparo Prades Ferrer. En: XXXII Reunión Bienal de la Sociedad Española de Química. 2009.

- 27 Title of the work:** C-H oxidative addition of bisimidazolium salts to Ir and Rh complexes, and N-Heterocyclic carbene generation

Name of the conference: 8th. FIGIPAS- Meeting in Inorganic Chemistry

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Atenas- Grecia,

Date of event: 06/07/2005

Mónica Viciano Miralles; Macarena Poyatos de Lorenzo; M. Sanaú; Eduardo Víctor Peris Fajarnés. En: 8th. FIGIPAS- Meeting in Inorganic Chemistry. 2005.

- 28 Title of the work:** Síntesis y coordinación de nuevos ligandos tripodales de tipo biscarbena N-Heterocíclico

Name of the conference: XXI Reunión Anual de Química Organometálica

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Ciudad Real,

Date of event: 12/07/2004

Elena Mas Marzá; Macarena Poyatos de Lorenzo; Mónica Viciano Miralles; Mercedes Sanaú; Eduardo Víctor Peris Fajarnés. En: XXI Reunión Anual de Química Organometálica. 2004.

- 29 Title of the work:** Síntesis y coordinación de nuevos ligandos tripodales de tipo biscarbena N-Heterocíclico

Name of the conference: XXII REUNIÓN DEL GRUPO ESPECIALIZADO DE QUÍMICA ORGANOMETÁLICA (GECO)

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Ciudad Real,

Date of event: 12/07/2004

Elena Mas Marzá; Macarena Poyatos de Lorenzo; Mónica Viciano Miralles; M. Sanaú; Eduardo Víctor Peris Fajarnés. En: XXII REUNIÓN DEL GRUPO ESPECIALIZADO DE QUÍMICA ORGANOMETÁLICA (GECO). 2004.

- 30 Title of the work:** Nous complexos amb lligands carbens en coordinació tripodal

Name of the conference: Tercera Trobada de Joves Investigadors dels Països Catalans

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Tarragona,

Date of event: 26/01/2004



Elena Mas Marzá; Macarena Poyatos de Lorenzo. En: Tercera Trobada de Joves Investigadors dels Païssos Catalans. 2004.

31 Title of the work: Nous complexos amb lligands carbens en coordinació tripodal.

Name of the conference: Tercera Trobada de Joves Investigadors dels Païssos Catalans

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Tarragona,

Date of event: 26/01/2004

Elena Mas Marzá; Macarena Poyatos de Lorenzo. En: Tercera Trobada de Joves Investigadors dels Païssos Catalans. 2004.

32 Title of the work: New Rh and Ir complexes with a trisimidazolylidene Tp ligand

Name of the conference: 7th FIGIPS CONFERENCE IN INORGANIC CHEMISTRY

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Lisboa (Portugal),

Date of event: 11/06/2003

Elena Mas Marzá; Macarena Poyatos de Lorenzo; Eduardo Víctor Peris Fajarnés. En: 7th FIGIPS CONFERENCE IN INORGANIC CHEMISTRY. 2003.

33 Title of the work: New Rh(I) and Rh(III) bisimidazolium-carbene complexes

Name of the conference: 7th FIGIPS CONFERENCE IN INORGANIC CHEMISTRY

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Lisboa (Portugal),,

Date of event: 11/06/2003

Macarena Poyatos de Lorenzo; Elena Mas Marzá; M. Sanaú; Eduardo Víctor Peris Fajarnés. En: 7th FIGIPS CONFERENCE IN INORGANIC CHEMISTRY. 2003.

34 Title of the work: Síntesis, estructura y reactividad de nuevos carbenos heterocíclicos pinza de Rh y Ru.

Name of the conference: XX REUNIÓN ANUAL DE QUÍMICA ORGANOMETÁLICA (GECO)

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: S. Sebastian,

Date of event: 17/07/2002

Macarena Poyatos de Lorenzo; Elena Mas Marzá; José Antonio Mata Martínez; Eduardo Víctor Peris Fajarnés. En: XX REUNIÓN ANUAL DE QUÍMICA ORGANOMETÁLICA (GECO). 2002.

35 Title of the work: New Rh(I) and Rh(III) bisimidazol-2-ylidene complexes: Synthesis, reactivity, and molecular structures

Name of the conference: Workshop on the Frontiers of Inorganic Chemistry

City of event: COPPER MOUNTAIN,

Type of contribution: Scientific paper

Poyatos, M; Sanau, M; Peris, E. "INORGANIC CHEMISTRY". 42 - 8, pp. 2572 - 2576. 21/04/2003. ISSN 0020-1669, ISSN 1520-510X

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** ANR-generic call for proposals
Primary (UNESCO code): 230000 - Chemistry
Affiliation entity: Agence Nationale de la Recherche **Type of entity:** State agency
City affiliation entity: France
- 2** **Committee title:** Gestión de Evaluaciones de la Dirección de Evaluación y Acreditación (DEVA) de la Agencia Andaluza del Conocimiento
Primary (UNESCO code): 230000 - Chemistry
Affiliation entity: Agencia Andaluza del Conocimiento
City affiliation entity: Andalusia, Spain
- 3** **Committee title:** Programa Estatal de Fomento de la Investigación Científica y Técnica de Excelencia
Primary (UNESCO code): 230000 - Chemistry
Affiliation entity: MINISTERIO DE ECONOMIA Y COMPETITIVIDAD **Type of entity:** State agency

Organization of R&D activities

- 1** **Title of the activity:** 8th Latin American Symposium on Coordination and Organometallic Chemistry
Type of activity: Conference
Convening entity: Latin American Symposium on Coordination and Organometallic (SILQCOM)
City convening entity: online meeting
Start-End date: 10/03/2022 - 11/03/2022
- 2** **Title of the activity:** XIIth International School on Organometallic Chemistry "Marcial Moreno Mañas"
Type of activity: Escuela **Geographical area:** Internacional
Convening entity: Red ORFEO-CINQA **Type of entity:** Redes de Excelencia
City convening entity: Madrid, Community of Madrid, Spain
Start-End date: 12/06/2019 - 14/06/2019 **Duration:** 3 days
- 3** **Title of the activity:** XXX Reunión Grupo Especializado en Química Organometálica
Type of activity: National meeting on Organometallic Chemistry **Geographical area:** European Union
Convening entity: Grupo Especializado en Química Organometálica (GEQO)
City convening entity: Castellon, Valencian Community, Spain
Start-End date: 12/06/2012 - 14/06/2012 **Duration:** 3 days



Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Laboratoire de Chimie Organométallique et de Catalyse, Université Louis Pasteur
City of entity: Estrasburgo, France
Start date: 2005
Name of programme: Síntesis de nuevos ligandos carbeno-oxazolina, coordinación a diferentes metales de transición y aplicaciones catalíticas
Goals of the stay: Doctorate
- 2** **Entity:** Laboratoire de Chimie Organométallique et de Catalyse, Université Louis Pasteur
City of entity: Estrasburgo, France
Start date: 2004
Name of programme: Síntesis de catalizadores quirales de Ru basados en ligandos carbeno-oxazolina y aplicaciones catalíticas
Goals of the stay: Doctorate
- 3** **Entity:** Yale Chemistry Department, Yale University
City of entity: New Haven, United States of America
Start date: 2003
Name of programme: Reactividad de complejos metálicos con carbenos N-heterocíclicos (NHC) en reacciones de activación C-H
Goals of the stay: Doctorate
- 4** **Entity:** Departament de Química Física i Inorgànica, Universitat Rovira i Virgili
City of entity: Tarragona, Spain
Start date: 2002
Name of programme: Inmovilización de catalizadores de Pd en matrices de tipo montmorillonita. Estudio de su eficacia en reacciones de Heck
Goals of the stay: Doctorate