



Abel Ros Laó

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Abel Ros Laó

Surname(s): **Ros Laó**
Name: **Abel**
ORCID: **0000-0002-3455-5675**
ResearcherID: **E-9256-2011**
Personal web page: **E-9256-2011**

Current professional situation

Employing entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Department: Bioorgánica, Instituto de Investigaciones Químicas
Professional category: Científico Titular
Start date: 01/08/2020
Type of contract: Civil servant **Dedication regime:** Full time
Identify key words: Synthetic organic chemistry

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad de Sevilla	Profesor Titular Interino	16/03/2020
2	Universidad de Sevilla	Contratado Ramón y Cajal	16/03/2015
3	Consejo Superior de Investigaciones Científicas	Contratado JAE-Doc	16/03/2012
4	Instituto de Investigaciones Químicas	Contratado Postdoctoral Proyecto Excelencia/Marie Curie ERG Fellow	01/04/2010
5	Universidad de Huelva	Prof. Sustituto Interino (Tiempo Parcial)	01/10/2010
6	School of Chemistry, University of Bristol	Contratado Postdoctoral Marie Curie (UE)	03/03/2008
7	Departamento Química Orgánica, Universidad de Sevilla	Investigador Contratado	01/06/2007
8	Instituto de Investigaciones Químicas	Contratado Postdoctoral	05/05/2006
9	Instituto de Investigaciones Químicas	Becario Predoctoral	01/01/2002
10	Departamento Química Orgánica, Universidad de Sevilla	Becario de Colaboración (MEC)	02/10/2000

1 **Employing entity:** Universidad de Sevilla **Type of entity:** University
Professional category: Profesor Titular Interino
Start-End date: 16/03/2020 - 31/07/2020 **Duration:** 4 months - 15 days

2 **Employing entity:** Universidad de Sevilla **Type of entity:** University
Professional category: Contratado Ramón y Cajal
Start-End date: 16/03/2015 - 15/03/2020 **Duration:** 5 years



- 3** **Employing entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Department: Instituto de Investigaciones Químicas
Professional category: Contratado JAE-Doc
Start-End date: 16/03/2012 - 15/03/2015 **Duration:** 3 years
Type of contract: Temporary employment contract
- 4** **Employing entity:** Instituto de Investigaciones Químicas **Type of entity:** State agency
Department: Instituto de Investigaciones Químicas
City employing entity: Sevilla, Andalusia, Spain
Professional category: Contratado Postdoctoral Proyecto Excelencia/Marie Curie ERG Fellow
Start-End date: 01/04/2010 - 14/03/2012 **Duration:** 713 days
Type of contract: Temporary employment contract
- 5** **Employing entity:** Universidad de Huelva **Type of entity:** University
Department: Departamento de Ingeniería Química, Química Física y Química Orgánica
City employing entity: Huelva, Andalusia, Spain
Professional category: Prof. Sustituto Interino (Tiempo Parcial)
Start-End date: 01/10/2010 - 18/03/2011 **Duration:** 6 months - 164 days
Type of contract: Temporary employment contract
- 6** **Employing entity:** School of Chemistry, University of Bristol **Type of entity:** University
Department: School of Chemistry
City employing entity: Bristol, United Kingdom
Professional category: Contratado Postdoctoral Marie Curie (UE)
Start-End date: 03/03/2008 - 02/03/2010 **Duration:** 729 days
Type of contract: Temporary employment contract
Identify key words: Synthetic organic chemistry
- 7** **Employing entity:** Departamento Química Orgánica, Universidad de Sevilla **Type of entity:** University
Department: Química Orgánica, Facultad de Química, Universidad de Sevilla
City employing entity: Sevilla, Andalusia, Spain
Professional category: Investigador Contratado
Start-End date: 01/06/2007 - 29/02/2008 **Duration:** 273 days
Type of contract: Temporary employment contract
Identify key words: Synthetic organic chemistry
- 8** **Employing entity:** Instituto de Investigaciones Químicas **Type of entity:** State agency
City employing entity: Sevilla, Andalusia, Spain
Professional category: Contratado Postdoctoral
Start-End date: 05/05/2006 - 04/05/2007 **Duration:** 391 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: Contratado Postdoctoral en proyecto con BayerCropScience
Identify key words: Organic chemistry



- 9** **Employing entity:** Instituto de Investigaciones Químicas **Type of entity:** State agency
City employing entity: Sevilla, Andalusia, Spain
Professional category: Becario Predoctoral
Start-End date: 01/01/2002 - 31/12/2005 **Duration:** 1460 days
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Performed tasks: Becario predoctoral en proyecto financiado por BayerCropScience. Realización de Tesis Doctoral en el marco del desarrollo de una nueva familia de herbicidas.
Identify key words: Organic chemistry
- 10** **Employing entity:** Departamento Química Orgánica, Universidad de Sevilla
City employing entity: Sevilla, Andalusia, Spain
Professional category: Becario de Colaboración (MEC)
Start-End date: 02/10/2000 - 30/06/2001 **Duration:** 270 days
Type of contract: Grant-assisted student (pre or post-doctoral, others)



Education

University education

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

1 University degree: Higher degree

Name of qualification: Licenciatura en Ciencias Químicas

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

Date of qualification: 2001

2 University degree: Others

Name of qualification: REALIZACIÓN DEL CURSO DE APTITUD PEDAGÓGICA (CAP) EN EL INSTITUTO DE CIENCIAS DE LA EDUCACIÓN DE LA UNIVERSIDAD DE SEVILLA (CURSO 2008/2009).

Doctorates

Doctorate programme: Química

Degree awarding entity: UNIVERSIDAD DE SEVILLA. QUÍMICA ORGÁNICA **Type of entity:** University

Date of degree: 2006

DEA awarding entity: Sevilla

European doctorate: No

Thesis title: APLICACIONES DE LA CICLOADICION 1,3-DIPOLAR Y LA HIDROGENACION POR TRANSFERENCIA DE FASE EN LA SINTESIS DE OXAZOLINAS, ALCOHOLES Y AMINAS

Thesis director: Jose María Lassaletta Simon

Thesis co-director: Rosario Fernández Fernández

Obtained qualification: SOBRESALIENTE CUM LAUDE

Recognition of quality: Yes

Language skills

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



Teaching experience

General teaching experience

- 1** **Type of teaching:** Official teaching
Name of the course: Química Orgánica II/Tercero
Type of programme: Grado **Type of teaching:** Laboratory work
Type of subject: Obligatory
University degree: Grado en Química y Doble Grado en Química e Ingeniería de Materiales
Course given: Tercero
Start date: 01/10/2017 **End date:** 15/01/2018
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 38
Entity: Universidad de Sevilla **Type of entity:** University
Faculty, institute or centre: Facultad de Química
Department: Química Orgánica
Subject language: Spanish
- 2** **Type of teaching:** Official teaching
Name of the course: Experimentación en Química II/Segundo
Type of programme: Grado **Type of teaching:** Laboratory work
Type of subject: Obligatory
University degree: Grado en Ingeniería Química Industrial
Course given: Segundo
Start date: 16/03/2017 **End date:** 15/06/2017
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 60
Entity: Universidad de Sevilla **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior
Department: Química Orgánica
Subject language: Spanish
- 3** **Type of teaching:** Official teaching
Name of the course: Química Orgánica III/Tercero
Type of programme: Grado **Type of teaching:** Laboratory work
Type of subject: Obligatory
Assessment type: Survey
University degree: Grado en Química y Doble Grado en Química e Ingeniería de Materiales
Course given: Tercero
Start date: 01/02/2017 **End date:** 15/06/2017
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 15
Entity: Universidad de Sevilla **Type of entity:** University
Faculty, institute or centre: Facultad de Química
Department: Química Orgánica
Assessment entity: Unidad de calidad VICERRECTORADO DE PROFESORADO
Assessment type: Survey



Type of entity: University

Mark obtained: 4.56

Subject language: Spanish

Top mark possible: 5.0

4 **Type of teaching:** Official teaching

Name of the course: Química Orgánica III/Tercero

Type of programme: Grado

Type of subject: Obligatory

Assessment type: Survey

University degree: Grado en Química y Doble Grado en Química e Ingeniería de Materiales

Course given: Tercero

Start date: 01/02/2016

End date: 15/06/2016

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 15

Entity: Universidad de Sevilla

Type of entity: University

Faculty, institute or centre: Facultad de Química

Department: Química Orgánica

Assessment entity: Unidad de Calidad VICERRECTORADO DE PROFESORADO

Assessment type: Survey

Type of entity: University

Mark obtained: 4.12

Top mark possible: 5.0

Subject language: Spanish

5 **Type of teaching:** Official teaching

Name of the course: Química Orgánica II/Tercero

Type of programme: Grado

Type of subject: Obligatory

University degree: Grado en Química y Doble Grado en Química e Ingeniería de Materiales

Course given: Tercero

Start date: 01/10/2015

End date: 15/01/2016

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 38

Entity: Universidad de Sevilla

Type of entity: University

Faculty, institute or centre: Facultad de Química

Department: Química Orgánica

Subject language: Spanish

6 **Type of teaching:** Official teaching

Name of the course: Química Orgánica/Segundo

Type of programme: Grado

Type of subject: Obligatory

University degree: Grado en Ingeniería Química Industrial

Course given: Segundo

Start date: 01/10/2015

End date: 15/01/2016

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 16

Entity: Universidad de Sevilla

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior

Department: Química Orgánica

Subject language: Spanish



7 **Type of teaching:** Official teaching
Name of the course: Experimentación en Química II/Segundo
Type of programme: Grado **Type of teaching:** Laboratory work
Type of subject: Obligatory
Assessment type: Survey
University degree: Grado en Ingeniería Química Industrial
Course given: Segundo
Start date: 16/03/2015 **End date:** 15/06/2015
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 87
Entity: Universidad de Sevilla **Type of entity:** University
Faculty, institute or centre: Escuela Politécnica Superior
Department: Química Orgánica
Assessment entity: Unidad Calidad VICERRECTORADO DE PROFESORADO
Assessment type: Survey
Type of entity: University
Mark obtained: 3.85 **Top mark possible:** 5.0
Subject language: Spanish

8 **Type of teaching:** Official teaching
Name of the course: Introducción al laboratorio Químico II, Grado en Química
Type of programme: Bachelor's degree **Type of teaching:** Laboratory work
Type of subject: Core
University degree: Grado en Química
Course given: 1 **Frequency of the activity:** 1
Start date: 07/03/2011 **End date:** 18/03/2011
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 54
Entity: Universidad de Huelva **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Experimentales
Department: INGENIERIA QUIMICA, QUIMICA FISICA Y QUIMICA ORGANICA
City of entity: Huelva, Andalusia, Spain
Subject language: Spanish

9 **Type of teaching:** Official teaching
Name of the course: Química
Related skills: Conocimientos de química básica
Type of programme: Technical engineering **Type of teaching:** In person theory
Type of subject: Core
Assessment type: Survey
University degree: Grado en Ingeniería en Explotación de Minas y Recursos Energéticos
Course given: 1 **Frequency of the activity:** 1
Start date: 10/10/2010 **End date:** 12/02/2011
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 74
Entity: Universidad de Huelva **Type of entity:** University
Faculty, institute or centre: Escuela Técnica Superior de Ingeniería
Department: Ingeniería Química, Química Física y Química Orgánica
City of entity: Huelva, Andalusia, Spain
Assessment entity: UNIDAD DE CALIDAD UNIVERSIDAD DE HUELVA
City assessment entity: Huelva, Andalusia, Spain



Assessment type: Survey
Type of entity: University
Mark obtained: 4.06
Subject language: Spanish

Top mark possible: 5.00

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Hidroarilación asimétrica de alquinos catalizada por Iridio. Estudio computacional
Type of project: Trabajo Fin de Máster
Co-director of thesis: Joaquín López Serrano
Student: Pablo Ignacio Trigo Sánchez
Obtained qualification: 9.3
Date of reading: 29/09/2020
- 2 Project title:** Síntesis de sistemas metálicos luminiscentes activos en CPL
Type of project: Trabajo Fin de Máster
Co-director of thesis: Rosario Fernández Fernández
Entity: Universidad de Sevilla **Type of entity:** University
Student: Pablo Vázquez Domínguez
Obtained qualification: 9.7
Date of reading: 15/07/2020
- 3 Project title:** DYKAT and desymmetrization strategies for the synthesis of axially chiral heterobiaryls
Type of project: Doctoral thesis
Co-director of thesis: José María Lassaletta Simon; Rosario Fernández Fernández
Entity: Universidad de Sevilla **Type of entity:** University
Student: Antonio Romero Arenas
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 31/01/2020
- 4 Project title:** Hidroarilación asimétrica de hidrazonas y oximas
Type of project: Trabajo Fin de Grado
Co-director of thesis: Rosario Fernández Fernández
Entity: Universidad de Sevilla **Type of entity:** University
Student: Inés María Delgado Garrido
Obtained qualification: 5
Date of reading: 24/09/2019
- 5 Project title:** Helicenos quirales basados en metales de transición
Type of project: Trabajo Fin de Grado
Co-director of thesis: Rosario Fernández Fernández
Entity: Universidad de Sevilla **Type of entity:** University
Student: Alba María Soto de Jesús
Obtained qualification: 8.9
Date of reading: 23/09/2019
- 6 Project title:** Triazoles con quiralidad axial como precursores de carbenos N-heterocíclicos y organocatalizadores de transferencia de fase
Type of project: Trabajo Fin de Grado
Co-director of thesis: Rosario Fernández Fernández



Entity: Universidad de Sevilla
Student: Pablo Vázquez Domínguez
Obtained qualification: 9.6
Date of reading: 10/01/2019

Type of entity: University

- 7** **Project title:** Síntesis de triarilboranos fluorescentes que presentan grupos protectores fotolábiles
Type of project: Trabajo Fin de Grado
Co-director of thesis: Rosario Fernández Fernández
Entity: Universidad de Sevilla
Student: Marina Frutos Maquilón
Obtained qualification: 5.0
Date of reading: 10/09/2018

Type of entity: University

- 8** **Project title:** Ligandos N,N con quiralidad axial. Empleo como ligandos y/u organocatalizadores
Type of project: Trabajo Fin de Grado
Co-director of thesis: Rosario Fernández Fernández
Entity: Universidad de Sevilla
Student: Marta Yanes Sánchez
Obtained qualification: 6.3
Date of reading: 10/01/2018

Type of entity: University

- 9** **Project title:** Síntesis de sistemas heterobiarílicos con quiralidad axial
Type of project: Trabajo Fin de Grado
Co-director of thesis: Rosario Fernández Fernández
Entity: Universidad de Sevilla
Student: Daniel Jiménez Navarro
Obtained qualification: 5.0
Date of reading: 18/07/2017

Type of entity: University

- 10** **Project title:** Aplicación de reacciones de acoplamiento cruzado a la síntesis de sistemas bi- y triarílicos
Type of project: Trabajo Fin de Grado
Co-director of thesis: Rosario Fernández Fernández; Abel Ros Laó
Entity: Universidad de Sevilla
Student: Francisco Javier Caballero Gómez
Obtained qualification: 8.6/10
Date of reading: 25/09/2015

Type of entity: University

- 11** **Project title:** Borilación C(sp²)-H de arenos: Desarrollo y aplicaciones
Type of project: Doctoral thesis
Co-director of thesis: José María Lassaletta Simon; Rosario Fernández Fernández; Abel Ros Laó
Entity: Universidad de Sevilla
Student: Rocío López Rodríguez
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 06/07/2015
Quality recognition: Yes

Type of entity: University

- 12** **Project title:** Catalizadores y Estrategias Innovadoras para la Síntesis Asimétrica de (Hetero)biarilos
Type of project: Doctoral thesis
Co-director of thesis: José M^a Lassaletta Simon; Rosario Fernández Fernández; Abel Ros Laó
Entity: Universidad de Sevilla
Student: Beatriz Estepa Sánchez

Type of entity: University



Obtained qualification: Sobresaliente Cum Laude

Date of reading: 12/12/2014

Quality recognition: Yes

13 Project title: LIGANDOS QUIRALES NITROGENADOS BASADOS EN HIDRAZONAS: APLICACIÓN EN LAS REACCIONES DE DIELS-ALDER Y SUZUKI-MIYAURA

Type of project: Doctoral thesis

Co-director of thesis: Jose María/Rosario Lassaletta/Fernández Simon/Fernández; Abel Ros Laó

Entity: UNIVERSIDAD DE SEVILLA. QUÍMICA ORGÁNICA

Type of entity: University

City of entity: Sevilla, Andalusia, Spain

Student: ANTONIO BERMEJO GÓMEZ

Obtained qualification: SOBRESALIENTE CUM LAUDE

Identify key words: Organic chemistry

Date of reading: 24/02/2011

Quality recognition: No

14 Project title: Borilación orto-dirigida de enlaces C-H arílicos catalizada por complejos de Ir(III)-hidrazona

Type of project: Work leading to an ASD

Co-director of thesis: Jose María/Rosario Lassaletta/Fernández Simon/Fernández; Abel Ros Laó

Entity: UNIVERSIDAD DE SEVILLA - C.S.I.C. FACULTAD DE QUÍMICA - INSTITUTO DE INVESTIGACIONES QUÍMICAS

Type of entity: University

City of entity: Sevilla, Andalusia, Spain

Student: ROCÍO LÓPEZ RODRÍGUEZ

Obtained qualification: 10

Identify key words: Organic chemistry

Date of reading: 2011

Quality recognition: No

Scientific and technological experience

Scientific or technological activities

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

1 Name of the project: CATALIZADORES, LIGANDOS, METODOS Y REACTIVOS PARA SINTESIS ORGANICA SELECTIVA (PID2019-106358GB-C21)

Type of project: Basic research (including archaeological digs, etc)

Degree of contribution: Researcher

Entity where project took place: Instituto de Investigaciones Químicas

Type of entity: University Research Institute

Name principal investigator (PI, Co-PI....): Jose María Lassaletta Simon

Nº of researchers: 6

Funding entity or bodies:

Plan Nacional-Ministerio de Ciencia e Innovacion

Type of entity: Public Research Body

Type of participation: Team member

Name of the programme: Plan Nacional-Ministerio de Ciencia e Innovacion



Start-End date: 01/06/2020 - 31/05/2023

Participating entity/entities: Instituto de Investigaciones Químicas ; Universidad de Sevilla

Total amount: 177.870 €

Dedication regime: Full time

2 Name of the project: DISEÑO RACIONAL DE CATALIZADORES QUIRALES AVANZADOS ORIENTADO A APLICACIONES EN CATÁLISIS ENANTIOSELECTIVA (US-1262867)

Type of project: Basic research (including archaeological digs, etc)

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Universidad de Sevilla

Type of entity: University

Name principal investigator (PI, Co-PI....): Rosario Fernández Fernández

Nº of researchers: 15

Type of participation: Team member

Name of the programme: Junta de Andalucía. Ayudas a proyectos de I+D+I Programa Operativo FEDER

Start-End date: 01/02/2020 - 28/02/2022

Duration: 2 years

Participating entity/entities: Instituto de Investigaciones Químicas ; Universidad de Sevilla

Total amount: 80.000 €

Dedication regime: Full time

3 Name of the project: SÍNTESIS DE SISTEMAS LUMINISCENTES PARA SU APLICACIÓN EN CPL Y FOTOCATÁLISIS ASIMÉTRICA (202080I005)

Type of project: Basic research (including archaeological digs, etc)

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Instituto de Investigaciones Químicas

Type of entity: University Research Institute

Name principal investigator (PI, Co-PI....): Abel Ros Laó

Nº of researchers: 1

Funding entity or bodies:

CSIC (PROYECTOS INTRAMURALES ESPECIALES PARA AYUDA A LA INCORPORACIÓN DE CIENTÍFICO TITULAR) **Type of entity:** Public Research Body

Type of participation: Principal investigator

Name of the programme: CSIC (PROYECTOS INTRAMURALES ESPECIALES PARA AYUDA A LA INCORPORACIÓN DE CIENTÍFICO TITULAR)

Start-End date: 02/10/2020 - 01/10/2021

Duration: 1 year

Total amount: 5.000 €

Dedication regime: Full time

4 Name of the project: DOBLE RESOLUCIÓN CINÉTICA DINÁMICA COMO ESTRATEGIA PARA LA SÍNTESIS DE DERIVADOS DE QUINAP Y MAP (P18-FR-3531)

Type of project: Basic research (including archaeological digs, etc)

Degree of contribution: Researcher

Entity where project took place: Instituto de Investigaciones Químicas

Type of entity: University Research Institute

Name principal investigator (PI, Co-PI....): Jose´María Lassaletta Simon

Nº of researchers: 4

Funding entity or bodies:

Junta de Andalucía. Ayudas a proyectos de I+D+I Programa Operativo FEDER

Type of entity: Public Research Body



Type of participation: Team member

Name of the programme: Junta de Andalucía. Ayudas a proyectos de I+D+I Programa Operativo FEDER

Start-End date: 01/02/2020 - 28/02/2020

Duration: 2 years

Total amount: 149.400 €

Dedication regime: Full time

5 Name of the project: DESARROLLO Y DIVERSIFICACION DE SISTEMAS CATALÍTICOS INNOVADORES. APLICACIONES EN CATÁLISIS ASIMÉTRICA (CTQ2016-76908-C2-1-P)

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Instituto de Investigaciones Químicas

Type of entity: State agency

Name principal investigator (PI, Co-PI....): José M^a Lassaletta Simon

Nº of researchers: 6

Code according to the funding entity: CTQ2013-48164-C2-1-P

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

Duration: 1095 days

Total amount: 116.000 €

Dedication regime: Full time

Applicant's contribution: Investigador Postdoctoral

6 Name of the project: METAL-CATALYZED ASYMMETRIC REACTIONS. DESIGN OF NEW ASYMMETRIC METHODOLOGIES AND CHIRAL LIGANDS (RYC-2013-12585)

Geographical area: National

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: Universidad de Sevilla

Type of entity: University

City of entity: Sevilla, Andalusia, Spain

Nº of researchers: 1

Type of participation: Co-ordinator

Name of the programme: Ayudas Ramón y Cajal

Start-End date: 16/03/2015 - 15/03/2019

Total amount: 40.000 €

Sub-project amount: 40.000 €

7 Name of the project: SISTEMAS CATALITICOS Y REACTIVOS DE NUEVA GENERACION PARA APLICACIONES EN SINTESIS ASIMETRICA (CTQ2013-48164-C2-1-P)

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Instituto de Investigaciones Químicas

Type of entity: State agency

Name principal investigator (PI, Co-PI....): José M^a Lassaletta Simon

Nº of researchers: 8

Code according to the funding entity: CTQ2013-48164-C2-1-P

Start-End date: 01/01/2014 - 31/12/2016

Duration: 1095 days

Total amount: 122.000 €

Dedication regime: Full time

Applicant's contribution: Investigador Postdoctoral

8 Name of the project: ADQUISICIÓN DE UN EQUIPO DE CROMATOGRFÍA LÍQUIDA DE ALTA RESOLUCIÓN Y DE SISTEMAS PARA SÍNTESIS EN CONTINUO, EN PARALELO Y A BAJA TEMPERATURA



Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Sevilla

Type of entity: University

Name principal investigator (PI, Co-PI....): Rosario Fernández Fernández

Nº of researchers: 20

Code according to the funding entity: CTQ2013-48164-C2-1-P

Start-End date: 01/12/2014 - 30/11/2016

Duration: 1095 days

Total amount: 237.689,41 €

Dedication regime: Full time

Applicant's contribution: Investigador Postdoctoral

9 Name of the project: RED DE EXCELENCIA EN CATÁLISIS ASIMÉTRICA (CTQ2014-55571-REDT)

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Sevilla

Type of entity: University

Name principal investigator (PI, Co-PI....): Jose Manuel Saá

Nº of researchers: 8

Code according to the funding entity: CTQ2013-48164-C2-1-P

Start-End date: 01/12/2014 - 30/11/2016

Duration: 1095 days

Total amount: 10.000 €

Dedication regime: Full time

Applicant's contribution: Investigador Postdoctoral

10 Name of the project: RED ORFEO-CINQA "CENTRO DE INNOVACIÓN EN QUÍMICA AVANZADA" (CTQ2014-51912-REDC)

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Sevilla

Type of entity: University

Name principal investigator (PI, Co-PI....): Migel Ángel Esteruelas

Nº of researchers: 8

Code according to the funding entity: CTQ2013-48164-C2-1-P

Start-End date: 01/12/2014 - 30/11/2016

Duration: 1095 days

Total amount: 41.000 €

Dedication regime: Full time

Applicant's contribution: Investigador Postdoctoral

11 Name of the project: ESTRATEGIAS INNOVADORAS EN CATÁLISIS ASIMÉTRICA. APLICACIONES A LA SÍNTESIS DE COMPUESTOS DE ALTO VALOR AÑADIDO

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Facultad de Química, Universidad de Sevilla

Type of entity: University

City of entity: Sevilla, Andalusia, Spain

Name principal investigator (PI, Co-PI....): ROSARIO FERNÁNDEZ FERNÁNDEZ

Nº of researchers: 19

Code according to the funding entity: P09-FQM-4537

**Start-End date:** 03/02/2010 - 02/02/2014**Duration:** 1461 days**Total amount:** 293.939,7 €

12 Name of the project: LIGANDOS MONODENTADOS, HETEROMULTIDENTADOS Y HEMILABILES BASADOS EN CARBENOS N-HETEROCICLICOS. DEL DISEÑO RACIONAL A LAS SOLUCIONES EN CATALISIS ASIMETRICA

Type of project: Basic research (including archaeological digs, etc)**Geographical area:** National**Degree of contribution:** Researcher**Entity where project took place:** Instituto de Investigaciones Químicas**Type of entity:** State agency**City of entity:** Sevilla, Andalusia, Spain**Name principal investigator (PI, Co-PI....):** José M^a Lassaletta Simon**Nº of researchers:** 9**Code according to the funding entity:** CTQ2010-15297**Start-End date:** 01/01/2011 - 12/12/2013**Duration:** 1095 days**Total amount:** 120.000 €**Applicant's contribution:** Investigador Postdoctoral

13 Name of the project: APPLICATIONS OF NEW CHIRAL NITROGEN BASED LIGANDS IN ASYMMETRIC CATALYSIS

Type of project: Basic research (including archaeological digs, etc)**Geographical area:** European Union**Degree of contribution:** Coordinator of total project, network or consortium**Entity where project took place:** Instituto de Investigaciones Químicas**Type of entity:** State agency**City of entity:** Sevilla, Andalusia, Spain**Name principal investigator (PI, Co-PI....):** ABEL ROS LAO**Nº of researchers:** 2**Type of participation:** Co-ordinator**Code according to the funding entity:** FP7-PEOPLE-2009-RG-256461**Start-End date:** 01/05/2010 - 30/04/2013**Duration:** 1095 days**Total amount:** 45.000 €

14 Name of the project: APROXIMACIONES ORGANOCATALÍTICAS A LA SÍNTESIS ENANTIOSELECTIVA DE BETA-AMINO ÁCIDOS, ÁCIDOS GAMMA-AMINO BUTÍRICOS (GABAS) E HIDRACINO PÉPTIDOS

Geographical area: Regional**Degree of contribution:** Researcher**Entity where project took place:** Instituto de Investigaciones Químicas**Type of entity:** State agency**City of entity:** Sevilla, Andalusia, Spain**Name principal investigator (PI, Co-PI....):** JOSE M^a LASSALETTA SIMON**Nº of researchers:** 20**Code according to the funding entity:** FQM-3833**Start-End date:** 13/01/2009 - 12/01/2013**Duration:** 1460 days**Total amount:** 291.923,7 €

15 Name of the project: GENERAL AND CONVERGENT STRATEGY FOR ASYMMETRIC SYNTHESIS

Geographical area: National**Degree of contribution:** Researcher**Entity where project took place:** School of Chemistry, University of Bristol**Type of entity:** University



City of entity: Bristol, United Kingdom

Name principal investigator (PI, Co-PI....): Varinder Kumar Aggarwal

N° of researchers: 25

Name of the programme: EPSRC (Engineering and Physical Sciences Research Council) UK Government.

Code according to the funding entity: EP/E052185/1

Start-End date: 01/10/2007 - 30/09/2012

Duration: 1826 days

Total amount: 1.002.293 €

16 Name of the project: DISEÑO DE NUEVOS CARBENOS N-HETEROCÍCLICOS Y CATALIZADORES DERIVADOS. MODULACIÓN DE PROPIEDADES Y APLICACIONES EN CATÁLISIS ASIMÉTRICA.

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Instituto de Investigaciones Químicas

Type of entity: State agency

City of entity: Sevilla, Andalusia, Spain

Name principal investigator (PI, Co-PI....): JOSE M^a LASSALETTA SIMON

N° of researchers: 13

Code according to the funding entity: CTQ2007-61915/BQU

Start-End date: 01/10/2007 - 30/09/2010

Duration: 1095 days

Total amount: 100.000 €

Applicant's contribution: Investigador Doctor

17 Name of the project: NEW ASYMMETRIC REACTIONS AND THEIR APPLICATION IN TOTAL SYNTHESIS

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: School of Chemistry, University of Bristol

Type of entity: University

City of entity: Bristol, United Kingdom

Name principal investigator (PI, Co-PI....): Aggarwal, Varinder K.

N° of researchers: 2

Name of the programme: EPSRC (Engineering and Physical Sciences Research Council) UK Government.

Code according to the funding entity: EP/D501725/1

Start-End date: 01/10/2005 - 30/09/2010

Duration: 1825 days

Total amount: 1.494.410 €

18 Name of the project: CHIRAL ORGANOMETALLICS FOR ASYMMETRIC SYNTHESIS (PIEF-GA-2008-220537)

Type of project: Basic research (including archaeological digs, etc)

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: School of Chemistry, University of Bristol

Type of entity: University

City of entity: Bristol, United Kingdom

Name principal investigator (PI, Co-PI....): Varinder Kumar Aggarwal; Abel Ros Lao

N° of researchers: 2

Type of participation: Others

Name of the programme: Marie Curie IntraEuropean Fellowships

Code according to the funding entity: PIEF-GA-2008-220537

Start-End date: 03/03/2008 - 02/03/2010

Duration: 729 days

Total amount: 161.792,99 €



- 19** **Name of the project:** DISEÑO Y APLICACIONES DE NUEVOS CATALIZADORES BASADOS EN HIDRAZONAS Y CARBENOS N-DIALQUILAMINO HETEROCÍCLICOS QUIRALES.
Geographical area: Regional
Degree of contribution: Researcher
Entity where project took place: Departamento de Química Orgánica, Universidad de Sevilla
Type of entity: University
City of entity: Sevilla, Andalusia, Spain
Name principal investigator (PI, Co-PI....): ROSARIO FERNÁNDEZ FERNÁNDEZ
Nº of researchers: 17
Code according to the funding entity: EXC/2005/FQM-658
Start-End date: 01/03/2006 - 28/02/2009
Duration: 1095 days
Total amount: 138.600 €
- 20** **Name of the project:** CARBENOS N-DIALQUILAMINO HETEROCICLICOS QUIRALES. APLICACIONES EN CATALISIS HOMOGENEA ENANTIOSELECTIVA.
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Instituto de Investigaciones Químicas
Type of entity: State agency
City of entity: Sevilla, Andalusia, Spain
Name principal investigator (PI, Co-PI....): JOSE M^a LASSALETTA SIMON
Nº of researchers: 9
Code according to the funding entity: CTQ2004-00290
Start-End date: 13/12/2004 - 12/12/2007
Total amount: 100.250 €
- 21** **Name of the project:** SÍNTESIS ESTEREOSELECTIVA/FQM 263 (PAI 2009)
Geographical area: Regional
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): ROSARIO FERNÁNDEZ FERNÁNDEZ
Nº of researchers: 22
Code according to the funding entity: FQM 263 (PAI 2009)
Start date: 08/09/2009
Duration: 364 days
Total amount: 17.120 €
- 22** **Name of the project:** SÍNTESIS ESTEREOSELECTIVA (FQM-263)/PAI 2008
Geographical area: Regional
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): ROSARIO FERNÁNDEZ FERNÁNDEZ
Nº of researchers: 22
Start date: 04/12/2008
Duration: 365 days
Total amount: 46.911,13 €
- 23** **Name of the project:** SÍNTESIS ESTEREOSELECTIVA (FQM 263)/PAI 2007
Geographical area: Regional
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): ROSARIO FERNÁNDEZ FERNÁNDEZ
Nº of researchers: 19
Start date: 28/04/2008
Total amount: 36.387,96 €



24 **Name of the project:** SÍNTESIS ESTEREOSELECTIVA (FQM-263)/PAI 2006
Geographical area: Regional
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): ROSARIO FERNÁNDEZ FERNÁNDEZ
N° of researchers: 14
Start date: 27/03/2007
Total amount: 87.000 €

25 **Name of the project:** SÍNTESIS ESTEREOSELECTIVA (FQM263)/PAI 2005
Geographical area: Regional
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): ROSARIO FERNÁNDEZ FERNÁNDEZ
N° of researchers: 17
Start date: 24/01/2006
Total amount: 87.000 €

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

1 **Name of the project:** DEVELOPMENT OF CHIRAL AND/OR ACHIRAL CHEMICAL SYNTHESIS
Type of project: Industrial research **Entity where project took place:** Instituto de Investigaciones Químicas
Degree of contribution: Researcher
Entity where project took place: Instituto de Investigaciones Químicas **Type of entity:** State agency
City of entity: Sevilla, Andalusia, Spain
Name principal investigator (PI, Co-PI....): JOSE M^a LASSALETTA SIMON
N° of researchers: 2
Participating entity/entities: Bayer CropScience, S.L.; Instituto de Investigaciones Químicas
Funding entity or bodies:
Bayer CropScience **Type of entity:** Business
City funding entity: Germany
Code according to the funding entity: BAYERCROPSCIENCE
Start date: 01/03/2006 **Duration:** 365 days
Total amount: 83.520 €

2 **Name of the project:** SYNTHESIS OF CHIRAL BCS COMPOUNDS AND INTERMEDIATES (1 RENOVACION)
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): JOSE M^a LASSALETTA SIMON
N° of researchers: 3
Participating entity/entities: BayerCropScience; Instituto de Investigaciones Químicas
Funding entity or bodies:
BayerCropScience **Type of entity:** Business
City funding entity: Germany
Code according to the funding entity: AVENTIS-2
Start date: 27/11/2004 **Duration:** 364 days
Total amount: 44.000 €



- 3** **Name of the project:** SYNTHESIS OF CHIRAL ACS COMPOUNDS AND INTERMEDIATES THEREOF
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): JOSE M^a LASSALETTA SIMON
Nº of researchers: 3
Funding entity or bodies: BayerCropScience **Type of entity:** Business
City funding entity: Germany
Code according to the funding entity: AVENTIS-2
Start date: 26/11/2001 **Duration:** 1096 days
Total amount: 132 €

Results

Industrial and intellectual property

- 1** **Title registered industrial property:** PROCEDIMIENTO DE SÍNTESIS DE COMPUESTOS HETEROBIARÍLICOS CON QUIRALIDAD AXIAL, COMPUESTOS OBTENIDOS Y USO
Inventors/authors/obtainers: José M^a Lassaletta Simon; Abel Ros Laó; Rosario Fernández Fernández; Beatriz Estepa Sánchez; Pedro Ramírez López
Entity holder of rights: CSIC/Universidad de Sevilla
Nº of application: P201331068
Country of inscription: Spain
Date of register: 12/07/2013
- 2** **Title registered industrial property:** Derivado 2,6-diborilado de areno y su obtención mediante diborilación orto-dirigida
Type of industrial property: Patent of invention
Inventors/authors/obtainers: JOSE M^a LASSALETTA SIMON; ABEL ROS LAO; ROCÍO LÓPEZ RODRÍGUEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; BEATRIZ ESTEPA SÁNCHEZ
Entity holder of rights: CSIC/Universidad de Sevilla
Nº of application: P201230260
Country of inscription: Spain
Date of register: 21/02/2012
- 3** **Title registered industrial property:** PROCESS FOR PREPARING OPTICALLY ACTIVE CYCLIC AMINES (PCT/WO2006/072374)
Description of qualities: T_RESUMEN: THE INVENTION RELATES TO THE TECHNICAL FIELD OF PROCESSES FOR PREPARING OPTICALLY ACTIVE INTERMEDIATES WHICH CAN BE USED FOR SYNTHESSES OF ACTIVE INGREDIENTS, FOR EXAMPLE ACTIVE INGREDIENTS FOR CROP PROTECTION COMPOSITIONS OR MEDICAMENTS. [0002] OPTICALLY ACTIVE COMPOUNDS ARE FREQUENTLY REQUIRED AS INTERMEDIATES FOR THE PREPARATION OF OPTICALLY ACTIVE ACTIVE INGREDIENTS. THIS IS TRUE OF ENANTIOSELECTIVE PREPARATION PROCESSES IN WHICH THE DESIRED SPATIAL STRUCTURE IS INTRODUCED AT CERTAIN CHIRAL CENTERS AT THE STAGE OF AN INTERMEDIATE AND IS RETAINED UP TO THE ACTIVE INGREDIENT THROUGH ONE OR MORE PROCESS STEPS. SUITABLE INTERMEDIATES ARE OPTICALLY ACTIVE NATURAL SUBSTANCES OR COMPOUNDS IN WHICH A CHIRAL CENTER IS OBTAINED FROM ACHIRAL COMPOUNDS WITH THE AID OF ENANTIOSELECTIVE REACTIONS, OR RACEMIC COMPOUNDS FOR WHICH, IN A SELECTIVE MANNER, ONLY ONE OF THE ENANTIOMERS PRESENT IS CONVERTED ENANTIOSELECTIVELY AND USED FURTHER. [0003] AMINO COMPOUNDS HAVE GREAT SIGNIFICANCE AS INTERMEDIATES FOR ACTIVE CROP PROTECTION INGREDIENTS AND ACTIVE MEDICAMENT INGREDIENTS. NUMEROUS PROCESSES FOR PREPARING OPTICALLY



ACTIVE AMINES ARE KNOWN; SEE, FOR EXAMPLE, ANGEW. CHEM. INT. ED. 2004 (116) 806-843 AND LITERATURE CITED THERE. IN ADDITION TO CLASSICAL OPTICAL RESOLUTION VIA DIASTEREOMERIC SALTS WITH OPTICALLY ACTIVE ACIDS, SOME RELATE TO THE USE OF OPTICALLY ACTIVE STARTING MATERIALS AND ENANTIOSELECTIVE CONVERSIONS UP TO THE DESIRED COMPOUND. OTHER PROCESSES ARE BASED ON ENZYMATIC REACTIONS, FOR EXAMPLE TRANSAMINATIONS USING ENZYMES OR MICROORGANISMS. OTHER PROCESSES AGAIN UTILIZE THE USE OF SYNTHETIC OPTICALLY ACTIVE REAGENTS AND THEIR PROPERTIES IN REACTIONS TO OBTAIN CHIRAL CENTERS ENANTIOSELECTIVELY.

Type of industrial property: Patent of invention

Inventors/authors/obtainers: ABEL ROS LAO; JOSE M^a LASSALETTA SIMON; ANTONIO MAGRIZ TASCON

Entity holder of rights: Bayer CropScience GmbH

Nº of application: DE200410063443 20041230

Country of inscription: Germany

Date of register: 30/12/2004

Nº of patent: PCT/WO 2006/072374

EU patent: Yes

International non-EU patent: Yes

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** ABEL ROS LAO; ELEUTERIO ALVAREZ GONZALEZ; Diectrich-,Hansjoerg; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. A PRACTICAL SYNTHESIS OF ENANTIOPURE 4,5-DIHYDROISOXAZOLE-5-CARBOXYLIC ACIDS. Synlett. 19, pp. 2899 - 2904. Thieme-Verlag, 2005. ISSN 0936-5214

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 2.693

Position of publication: 13

Source of citations: WOS

Source of citations: SCOPUS

Relevant results: Highlighted in ChemInform, 2006, 37, DOI: 10.1002/chin.200615118.

Reviews in journals: 1

Relevant publication: No

Format: Journal

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

Category: Química Orgánica

Journal in the top 25%: Yes

No. of journals in the cat.: 55

Citations: 23

Citations: 24

- 2** ABEL ROS LAO; ANTONIO MAGRIZ TASCON; Diectrich-,Hansjoerg; ROSARIO FERNÁNDEZ FERNÁNDEZ; ELEUTERIO ALVAREZ GONZALEZ; JOSE M^a LASSALETTA SIMON. ENANTIOSELECTIVE SYNTHESIS OFF VICINAL HALOHYDRINS VIA DYNAMIC KINETIC RESOLUTION. Org. lett.8 - 1, pp. 127 - 130. ACS Publications, 2006. Available on-line at: <<http://dx.doi.org/10.1021/ol052821k>>. ISSN 1523-7060

Type of production: Scientific paper

Position of signature: 1

Format: Journal



Impact source: ISI

Impact index in year of publication: 4.659

Position of publication: 5

Source of citations: WOS

Source of citations: SCOPUS

Relevant results: Highlighted in SYNFACTS 2006, 4, 369. Highlighted in ChemInform, 2006, 37, DOI: 10.1002/chin.200620027.

Reviews in journals: 2

Relevant publication: No

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

Category: Química Orgánica

Journal in the top 25%: Yes

No. of journals in the cat.: 56

Citations: 65

Citations: 58

- 3** ABEL ROS LAO; ANTONIO MAGRIZ TASCON; Dieckrich-, Hansjoerg; JOSE M^a LASSALETTA SIMON; ROSARIO FERNÁNDEZ FERNÁNDEZ. STEREOSELECTIVE SYNTHESIS OF SYN BETA-HYDROXY CYCLOALKANE CARBOXYLATES: TRANSFER HYDROGENATION OF CYCLIC BETA-KETO ESTERS VIA DYNAMIC KINETIC RESOLUTION. Tetrahedron. 63, pp. 7532 - 7537. Elsevier, 2007. ISSN 0040-4020

Type of production: Scientific paper

Position of signature: 1

Impact source: ISI

Impact index in year of publication: 2.869

Position of publication: 14

Source of citations: WOS

Source of citations: SCOPUS

Relevant results: Highlighted in ChemInform, 2007, 38, DOI: 10.1002/chin.200746026.

Reviews in journals: 1

Relevant publication: No

Format: Journal

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

Category: Química Orgánica

Journal in the top 25%: Yes

No. of journals in the cat.: 56

Citations: 37

Citations: 38

- 4** ROSARIO FERNÁNDEZ FERNÁNDEZ; ABEL ROS LAO; ANTONIO MAGRIZ TASCON; Dieckrich-, Hansjoerg; JOSE M^a LASSALETTA SIMON. ENANTIOSELECTIVE SYNTHESIS OF CIS-ALPHA-SUBSTITUTED CYCLOALKANOLS AND TRANS-CYCLOALKYL AMINES THEREOF. Tetrahedron. 63 - 29, pp. 6755 - 6763. Elsevier, 2007. ISSN 0040-4020

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 2.869

Position of publication: 14

Source of citations: WOS

Source of citations: SCOPUS

Relevant results: Highlighted in SYNFACTS 2007, 10, 1054. Highlighted in ChemInform, 2007, 38, DOI: 10.1002/chin.200743022.

Reviews in journals: 2

Relevant publication: No

Format: Journal

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

Category: Química Orgánica

Journal in the top 25%: Yes

No. of journals in the cat.: 56

Citations: 33

Citations: 30



- 5** ABEL ROS LAO; Aggarwal-, Varinder K.. COMPLETE STEREORETENTION IN THE RHODIUM-CATALYZED 1,2-ADDITION OF CHIRAL SECONDARY AND TERTIARY ALKYL POTASSIUM TRIFLUOROBORATE SALTS TO ALDEHYDES. *Angew. Chem. Int. Ed.*48, pp. 6289 - 6292. Wiley-VCH, 2009. Available on-line at: <fb72f674-ceab-4ca9-abdb-ba9bdd214fa4>. ISSN 1433-7851
- Type of production:** Scientific paper
Position of signature: 1
Total no. authors: 2
Impact source: ISI
Impact index in year of publication: 11.829
Position of publication: 5
Source of citations: WOS
Source of citations: SCOPUS
Relevant results: Highlighted in *ChemInform* 2010, 41, DOI: 10.1002/chin.201001052
Reviews in journals: 1
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Química Multidisciplinar
Journal in the top 25%: Yes
No. of journals in the cat.: 140
Citations: 59
Citations: 66
- 6** Illa-,Ona; Arshad-,Muhammad; ABEL ROS LAO; MCGARRIGLE-,Eoghan M.; Aggarwal-, Varinder K.. PRACTICAL AND HIGHLY SELECTIVE SULFUR YLIDE-MEDIATED ASYMMETRIC EPOXIDATIONS AND AZIRIDINATIONS USING AN INEXPENSIVE, READILY AVAILABLE CHIRAL SULFIDE. APPLICATIONS TO THE SYNTHESIS OF QUININE AND QUINIDINE. *J. Am. Chem. Soc.*132, pp. 1828 - 1830. ACS Publications, 2010. ISSN 0002-7863
- Type of production:** Scientific paper
Position of signature: 3
Total no. authors: 5
Impact source: ISI
Impact index in year of publication: 9.023
Position of publication: 11
Source of citations: WOS
Source of citations: SCOPUS
Relevant results: Highlighted in *Chemical & Engineering News* 2010, 88, 49 and *Chemistry World* 2010, 37, 3, 32. Highlighted in *ChemInform*, 2010, 41, DOI: 10.1002/chin.201029113.
Reviews in journals: 2
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Química Multidisciplinar
Journal in the top 25%: Yes
No. of journals in the cat.: 147
Citations: 113
Citations: 113
- 7** Rocío López Rodríguez; Abel Ros Laó; Rosario Fernández Fernández; Jose M^a Lassaletta Simon. Pinacolborane as the Boron Source in Nitrogen-Directed Borylations of Aromatic N,N-Dimethylhydrazones. *The Journal of Organic Chemistry*. 77, pp. 9915 - 9920. ACS Publications, 2012. ISSN 0022-3263
- Type of production:** Scientific paper
Position of signature: 2
Total no. authors: 4
Impact source: ISI
Impact index in year of publication: 4.564
Position of publication: 10
Source of citations: WOS
Source of citations: SCOPUS
Relevant results: *Corresponding author Resaltado en *ChemInform* 2013, 44, 11, DOI: 10.1002/chin.201311183. Esta publicación es fruto de la Tesis de Rocío López-Rodríguez la cual he codirigido.
Reviews in journals: 1
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Química Orgánica
Journal in the top 25%: Yes
No. of journals in the cat.: 57
Citations: 19
Citations: 21



- 8** ABEL ROS LAO; BEATRIZ ESTEPA SÁNCHEZ; ANTONIO BERMEJO GÓMEZ; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. Phosphino-Hydrazones as Suitable Ligands in the Asymmetric Suzuki-Miyaura Cross-Coupling. *The Journal of Organic Chemistry*. 77, pp. 4740 - 4750. ACS Publications, 2012. Available on-line at: <34f6c2b5-2627-48b5-8b9f-a4d80a7eee08>. ISSN 0022-3263

Type of production: Scientific paper

Position of signature: 1

Impact source: ISI

Impact index in year of publication: 4.45

Position of publication: 9

Impact source: ISI

Impact index in year of publication: 4.564

Position of publication: 10

Source of citations: WOS

Source of citations: SCOPUS

Relevant results: Highlighted in ChemInform 2012, 43, 01, DOI: 10.1002/chin.201236038. Esta publicación es fruto de la Tesis de Antonio Bermejo y Tesis de Beatriz Estepa las cuales he codirigido.

Reviews in journals: 1

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

Category: Química Orgánica

Journal in the top 25%: Yes

Category: Química Orgánica

Journal in the top 25%: Yes

No. of journals in the cat.: 57

Citations: 67

Citations: 69

- 9** ANTONIO BERMEJO GÓMEZ; ABEL ROS LAO; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. C2-SYMMETRIC BIS-HYDRAZONES AS LIGANDS IN THE ASYMMETRIC SUZUKI-MIYAUURA CROSS-COUPLING. *J. Am. Chem. Soc.* 130 - 47, pp. 15798 - 15799. ACS Publications, 2008. Available on-line at: <058e0ae9-4085-408b-abde-af90a686ca64>. ISSN 0002-7863

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 8.091

Position of publication: 7

Source of citations: WOS

Source of citations: SCOPUS

Relevant results: Highlighted in Organic Chemistry Portal:

<http://www.organic-chemistry.org/abstracts/lit2/351.shtm> Highlighted in ChemInform 2009, 40, DOI:

10.1002/chin.200916094. Esta publicación es fruto de la Tesis de Antonio Bermejo la cual he codirigido.

Reviews in journals: 2

Relevant publication: Yes

Format: Journal

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

Category: Química Multidisciplinar

Journal in the top 25%: Yes

No. of journals in the cat.: 127

Citations: 160

Citations: 166

- 10** ABEL ROS LAO; BEATRIZ ESTEPA SÁNCHEZ; ROCÍO LÓPEZ RODRÍGUEZ; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. USE OF HEMILABILE N,N LIGANDS IN NITROGEN-DIRECTED Iridium-CATALYZED BORYLATIONS OF ARENES. *Angew. Chem. Int. ed.* 50, pp. 11724 - 11728. WILEY-VCH, 2011. Available on-line at: <765df1ed-46d4-4f97-9f11-608f6658d8d4>. ISSN 1433-7851

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 6

Format: Journal

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

Impact source: ISI
Impact index in year of publication: 13.455
Position of publication: 7

Source of citations: WOS

Source of citations: SCOPUS

Relevant results: Highlighted in SYNFACTS 2012, 8, 197. Highlighted in ChemInform 2012, 43, DOI: 10.1002/chin.201219184 Esta publicación es fruto de la Tesis de Rocío López-Rodríguez y Beatriz Estepa las cuales he codirigido

Reviews in journals: 2

Relevant publication: Yes

Category: Química Multidisciplinar

Journal in the top 25%: Yes

No. of journals in the cat.: 154

Citations: 108

Citations: 110

- 11** Abel Ros; Pedro Ramírez-López; Beatriz Estepa; Eleuterio Álvarez; Rosario Fernández; José M. Lassaletta. Dynamic Kinetic Cross-Coupling Strategy for the Asymmetric Synthesis of Axially Chiral Heterobiaryls. Journal of the American Chemical Society. 135, pp. 15730 - 15733. (United States of America): ACS publications, 2013. ISSN 0002-7863

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 6

Impact source: ISI

Impact index in year of publication: 11.444

Position of publication: 10

Source of citations: WOS

Source of citations: SCOPUS

Relevant results: Highlighted in ChemInform 2014, 45, 01, DOI: 10.1002/chin.201415169. Highlighted in <http://allorganicchemistry.blogspot.com.es/2013/10/dynamic-kinetic-cross-coupling-strategy.html>

Reviews in journals: 2

Relevant publication: Yes

Format: Journal

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

Category: Química Multidisciplinar

Journal in the top 25%: Yes

No. of journals in the cat.: 148

Citations: 105

Citations: 105

- 12** Pedro Ramírez-López; Abel Ros; Antonio Romero-Arenas; Javier Iglesias-Sigüenza; Rosario Fernández; José M. Lassaletta. Synthesis of IAN-type N,N-Ligands via Dynamic Kinetic Asymmetric Buchwald-Hartwig Amination. Journal of the American Chemical Society. 138, pp. 12053 - 12056. (United States of America): ACS Publications, 2016. ISSN 0002-7863

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 6

Impact source: ISI

Impact index in year of publication: 13.858

Position of publication: 10

Source of citations: WOS

Source of citations: SCOPUS

Relevant results: Contribución igual del primer y segundo autor. Artículo fruto de la Tesis de Antonipo Romero Arenas que estoy actualmente codirigiendo. Highlighted in SYNFACTS 2016, 12(12), 1278. DOI: 10.1055/s-0036-1589650.

Reviews in journals: 1

Relevant publication: Yes

Format: Journal

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

Category: Química Multidisciplinar

Journal in the top 25%: Yes

No. of journals in the cat.: 166

Citations: 35

Citations: 36



- 13** Valentin Hornillos; Abel Ros; Pedro Ramírez-López; Javier Iglesias-Sigüenza; Rosario Fernández; José M. Lassaletta. Synthesis of Axially Chiral Heterobiaryl Alkynes via Dynamic Kinetic Asymmetric Alkynylation. *Chemical Communications*. 52, pp. 14121 - 14124. (United Kingdom): RSC, 2016. ISSN 1359-7345
- Type of production:** Scientific paper
Position of signature: 2
Total no. authors: 6
Impact source: ISI
Impact index in year of publication: 6.319
Position of publication: 23
Source of citations: WOS
Source of citations: SCOPUS
Relevant results: Highlighted in SYNFACTS 2017, 13, 0180
Reviews in journals: 1
Relevant publication: Yes
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Química Multidisciplinar
Journal in the top 25%: Yes
No. of journals in the cat.: 166
Citations: 13
Citations: 15
- 14** Valentin Hornillos; Jose Alberto Carmona; Abel Ros; Javier Iglesias-Sigüenza; Joaquín López-Serrano; Rosario Fernández; Jose M. Lassaletta. Dynamic Kinetic Resolution of Heterobiaryl Ketones by Zinc-Catalyzed Asymmetric Hydrosilylation. *Angew. Chem. Int. Ed.* 57, pp. 3777 - 3781. (Germany): Wiley, 2018. ISSN 1433-7851
- Type of production:** Scientific paper
Position of signature: 3
Total no. authors: 7
Impact source: ISI
Impact index in year of publication: 12.257
Position of publication: 17
Source of citations: WOS
Source of citations: SCOPUS
Relevant results: Highlighted in SYNFACTS 2018, 14, 0507
Reviews in journals: 1
Relevant publication: Yes
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Química Multidisciplinar
Journal in the top 25%: Yes
No. of journals in the cat.: 172
Citations: 27
Citations: 24
- 15** Antonio Romero Arenas; Valentin Hornillos; Javier Iglesias Sigüenza; Rosario Fernández Fernández; Joaquín López Serrano; Abel Ros; Jose María Lassaletta. Ir-Catalyzed Atroposelective Desymmetrization of Heterobiaryls: Hydroarylation of Vinyl Ethers and Bicycloalkenes. *Journal of the American Chemical Society*. 142, pp. 2628 - 2639. (United States of America): ACS Publications, 2020. ISSN 0002-7863
- Type of production:** Scientific paper
Position of signature: 6
Total no. authors: 7
Impact source: ISI
Impact index in year of publication: 14.612
Position of publication: 13
Source of citations: WOS
Source of citations: SCOPUS
Relevant publication: Yes
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Química multidisciplinar
Journal in the top 25%: Yes
No. of journals in the cat.: 177
Citations: 9
Citations: 9

- 16** Zoe Domínguez; Rocío López-Rodríguez; Eleuterio Álvarez; Sergio Abbate; Giovanna Longhi; Uwe Pischel; Abel Ros. Azabara[5]helicene Charge-Transfer Dyes Show Efficient and Spectrally Variable Circularly Polarized Luminescence. *Chemistry a European Journal*. 24, pp. 12660 - 12668. (Germany): Wiley, 2018. ISSN 0947-6539
Type of production: Scientific paper
Position of signature: 7
Total no. authors: 7
Impact source: ISI
Impact index in year of publication: 5.160
Position of publication: 37
Source of citations: WOS
Source of citations: SCOPUS
Relevant results: Corresponding author
Relevant publication: Yes
Format: Journal
Degree of contribution: Author or co-author of reserved scientific or technical document
Corresponding author: Yes
Category: Química Multidisciplinar
Journal in the top 25%: Yes
No. of journals in the cat.: 172
Citations: 16
Citations: 18
- 17** Vania F. Pais; Maria M. Alcaide; Rocío López Rodríguez; Daniel Collado; Francisco Nájera; Ezequiel Pérez-Inestrosa; Eleuterio Álvarez; José M. Lassaletta; Rosario Fernández; Abel Ros; Uwe Pischel. Strongly emissive and photostable four-coordinate organoboron N,C-chelates and their use in fluorescence microscopy. *Chemistry A european Journal*. 21, pp. 15369 - 15376. (Germany): Wiley, 2015. ISSN 0947-6539
Type of production: Scientific paper
Position of signature: 10
Total no. authors: 11
Impact source: ISI
Impact index in year of publication: 5.771
Position of publication: 24
Source of citations: WOS
Source of citations: SCOPUS
Relevant results: Soy autor de correspondencia junto a Uwe Pischel
Relevant publication: Yes
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Química Multidisciplinar
Journal in the top 25%: Yes
No. of journals in the cat.: 163
Citations: 38
Citations: 37
- 18** Vania F. Pais; Tristan Neumann; Ignacio Vayá; M. Consuelo Jiménez; Abel Ros; Uwe Pischel. Arylisoquinoline-derived Organoboron Dyes with a Triaryl Skeleton Show Dual Fluorescence. *BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY*. 15, pp. 2612 - 2622. BEILSTEIN-INSTITUT, 2019. ISSN 1860-5397
Type of production: Scientific paper
Position of signature: 5
Total no. authors: 6
Impact source: ISI
Impact index in year of publication: 2.622
Position of publication: 13
Source of citations: WOS
Source of citations: SCOPUS
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Química Orgánica
Journal in the top 25%: No
No. of journals in the cat.: 57
Citations: 0
Citations: 0
- 19** Zoe Domínguez; Vania F. Pais; Daniel Collado; Pablo Vázquez Domínguez; Francisco Nájera Albendín; Ezequiel Pérez Inestrosa; Abel Ros; Uwe Pischel. π -Extended Four-Coordinate Organoboron N,C-Chelates as Two-Photon Absorbing Chromophores. *Journal of Organic Chemistry*. 84, pp. 1338 - 13393. (United States of America): ACS Publications, 2019. ISSN 0022-3263

Type of production: Scientific paper

Position of signature: 7

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 4.335

Position of publication: 9

Source of citations: WOS

Format: Journal

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

Corresponding author: Yes

Category: Química Orgánica

Journal in the top 25%: Yes

No. of journals in the cat.: 57

Citations: 3

- 20** Jose Alberto Carmona; Valentin Hornillos; Perro Ramírez-López; Abel Ros; Javier Iglesias-Sigüenza; Enrique Gómez-Bengoia; Rosario Fernández; Jose M. Lassaletta. Dynamic Kinetic Asymmetric Heck Reaction for the Simultaneous Generation of Central and Axial Chirality. *J. Am. Chem. Soc.* 140, pp. 11067 - 11075. (United States of America): ACS, 2018. ISSN 0002-7863

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 14.695

Position of publication: 12

Source of citations: WOS

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of reserved scientific or technical document

Category: Química Multidisciplinar

Journal in the top 25%: Yes

No. of journals in the cat.: 172

Citations: 27

Citations: 27

- 21** Francisco Boscá; M. Consuelo Cuquerella; Vânia F. Pais; Abel Ros; Uwe Pischel. Excited-State Pathways of Four-Coordinate N,C-Chelate Organoboron Dyes. *ChemphotoChem.* 2, pp. 34 - 41. (Germany): Wiley, 2018. ISSN 2367-0932

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 2.838

Position of publication: 81

Source of citations: WOS

Source of citations: SCOPUS

Format: Journal

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

Category: Química Física

Journal in the top 25%: No

No. of journals in the cat.: 159

Citations: 8

Citations: 8

Relevant results: Elegido como Cover Feature del correspondiente número

- 22** Pedro Ramírez-López; Abel Ros; Beatriz Estepa; Rosario Fernández; Béla Fiser; Enrique Gómez-Bengoia; José M. Lassaletta. A Dynamic Kinetic C–P Cross–Coupling for the Asymmetric Synthesis of Axially Chiral P,N Ligands. *ACS Catalysis.* 6, pp. 3955 - 3964. (United States of America): ACS Publications, 2016. ISSN 2155-5435

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 10.614

Position of publication: 11

Format: Journal

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

Corresponding author: Yes

Category: Química Física

Journal in the top 25%: Yes

No. of journals in the cat.: 146

Source of citations: WOS

Citations: 29

Source of citations: SCOPUS

Citations: 32

Relevant results: Soy co-corresponding author

- 23** Yolanda Álvarez-Casao; Beatriz Estepa; David Monge; Abel Ros; Javier Iglesias-Sigüenza; Eleuterio Álvarez; Rosario Fernández; José M. Lassaletta. PYRIDINE-HYDRAZONE LIGANDS IN ENANTIOSELECTIVE PALLADIUM-CATALYZED SUZUKI-MIYAUURA CROSS-COUPPLINGS. *Tetrahedron (Simposia in print Axial Chirality)*. 72, pp. 5184 - 5190. (Holland): Elsevier, 2016. ISSN 0040-4020

Type of production: Scientific paper

Format: Journal

Position of signature: 4

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

Total no. authors: 8

Impact source: ISI

Category: Química Orgánica

Impact index in year of publication: 2.651

Journal in the top 25%: No

Position of publication: 21

No. of journals in the cat.: 59

Source of citations: WOS

Citations: 9

Source of citations: SCOPUS

Citations: 9

- 24** Vânia F. Pais; Pedro Ramírez-López; Antonio Romero-Arenas; Daniel Collado; Francisco Nájera; Ezequiel Pérez-Inestrosa; Rosario Fernández; José M. Lassaletta; Abel Ros; Uwe Pischel. Red-Emitting Tetracoordinate Organoboron Chelates: Synthesis, Photophysical Properties, and Fluorescence Microscopy. *Journal of Organic Chemistry*. 81, pp. 9605 - 9611. (United States of America): ACS Publications, 2016. ISSN 0022-3263

Type of production: Scientific paper

Format: Journal

Position of signature: 9

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

Total no. authors: 10

Impact source: ISI

Corresponding author: Yes

Impact index in year of publication: 4.849

Category: Química Orgánica

Position of publication: 8

Journal in the top 25%: Yes

Source of citations: WOS

Citations: 21

Source of citations: SCOPUS

Citations: 21

Relevant results: Soy autor de correspondencia junto a Uwe Pischel.

- 25** Léo Egger; Cecilia Tortoreto; Thierry Achard; David Monge; Abel Ros; Rosario Fernández; Jose M. Lassaletta; Jérôme Lacour. Regio and Enantioselective Allylation of Phenols via Decarboxylative Allylic Etherification of Allyl Aryl Carbonates Catalyzed by (Cyclopentadienyl)ruthenium(II) Complexes and Pyridine-Hydrazone Ligands. *Advanced Synthesis and Catalysis*. 357, pp. 3325 - 3331. Wiley, 2015. ISSN 1615-4150

Type of production: Scientific paper

Format: Journal

Position of signature: 5

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

Total no. authors: 8

Impact source: ISI

Category: Química aplicada

Impact index in year of publication: 6.453

Journal in the top 25%: Yes

Position of publication: 1

No. of journals in the cat.: 72

Impact source: ISI

Category: Química Orgánica

Impact index in year of publication: 6.453

Journal in the top 25%: Yes

Position of publication: 5

No. of journals in the cat.: 59



Source of citations: WOS

Citations: 5

Source of citations: SCOPUS

Citations: 5

- 26** Abel Ros; Rosario Fernández; José María Lassaletta. Functional Group Directed C–H Borylation. *Chemical Society Reviews*. 43, pp. 3229 - 3243. (United Kingdom): RSC publishing, 2014. ISSN 0306-0012
- Type of production:** Scientific paper **Format:** Journal
- Position of signature:** 1 **Degree of contribution:** Author or co-author of review
- Total no. authors:** 3 **Corresponding author:** Yes
- Impact source:** ISI **Category:** Química Multidisciplinar
- Impact index in year of publication:** 33.383 **Journal in the top 25%:** Yes
- Position of publication:** 2 **No. of journals in the cat.:** 155
- Source of citations:** WOS **Citations:** 298
- Source of citations:** SCOPUS **Citations:** 304
- Relevant results:** Soy co-corresponding author
- 27** Vânia F. Pais; José M. Lassaletta; Rosario Fernández; Hamdy S. El-Sheshtawy; Abel Ros; Uwe Pischel. Organic Fluorescent Thermometers Based on Borylated Arylisoquinoline Dyes. *Chemistry A European Journal*. 20, pp. 7638 - 7645. (Germany): Wiley-VCH, 2014. ISSN 0947-6539
- Type of production:** Scientific paper **Format:** Journal
- Position of signature:** 5 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
- Total no. authors:** 6 **Corresponding author:** Yes
- Impact source:** ISI **Category:** Química Multidisciplinar
- Impact index in year of publication:** 5.731 **Journal in the top 25%:** Yes
- Position of publication:** 22 **No. of journals in the cat.:** 155
- Source of citations:** WOS **Citations:** 33
- Source of citations:** SCOPUS **Citations:** 33
- Relevant results:** Soy corresponding author junto con Uwe Pischel
- 28** Vânia F. Pais; Hamdy S. El-Sheshtawy; Rosario Fernández; José M. Lassaletta; Abel Ros; Uwe Pischel. Borylated Arylisoquinolines: Photophysical Properties and Switching Behavior of Promising Tunable Fluorophores. *Chemistry a European Journal*. 19, pp. 6650 - 6661. (Germany): Wiley-VCH, 2013. ISSN 0947-6539
- Type of production:** Scientific paper **Format:** Journal
- Position of signature:** 5 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
- Total no. authors:** 6 **Corresponding author:** Yes
- Impact source:** ISI **Category:** Química Multidisciplinar
- Impact index in year of publication:** 5.696 **Journal in the top 25%:** Yes
- Position of publication:** 22 **No. of journals in the cat.:** 148
- Source of citations:** WOS **Citations:** 16
- Source of citations:** SCOPUS **Citations:** 16
- Relevant results:** Soy corresponding author junto al Dr Uwe Pischel

- 29** Vania F Pais; Mauricio Lineros; Rocío López-Rodríguez; Hamdy S. El-Sheshtawy; Rosario Fernández; Jose M. Lassaletta; Abel Ros; Uwe Pischel. Preparation and pH-Switching of Fluorescent Borylated Arylisoquinolines for Multilevel Molecular Logic. *Journal of Organic Chemistry*. 78, pp. 7949 - 7961. (United States of America): ACS Publications, 2013. ISSN 0022-3263
- Type of production:** Scientific paper
Position of signature: 7
- Total no. authors:** 8
Impact source: ISI
Impact index in year of publication: 4.638
Position of publication: 8
- Source of citations:** WOS
Source of citations: SCOPUS
- Relevant results:** Soy corresponding author junto con el Dr Uwe pischel
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Química Orgánica
Journal in the top 25%: Yes
No. of journals in the cat.: 58
Citations: 21
Citations: 20
- 30** ABEL ROS LAO; ROCÍO LÓPEZ RODRÍGUEZ; BEATRIZ ESTEPA SÁNCHEZ; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. Hydrazone as the Directing Group for Ir-Catalyzed Arene Diborylations and Sequential Functionalizations. *Journal of the American Chemical Society*. 134, pp. 4573 - 4576. ACS Publications, 2012. Available on-line at: <5f88f88a-65ff-4aca-908a-5d7d4c945e00>. ISSN 0002-7863
- Type of production:** Scientific paper
Position of signature: 1
- Total no. authors:** 6
Impact source: ISI
Impact index in year of publication: 10.677
Position of publication: 11
- Source of citations:** WOS
Source of citations: SCOPUS
- Relevant results:** Esta publicación es fruto de la Tesis de Rocío López-Rodríguez y Beatriz Estepa las cuales he codirigido.
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Química Multidisciplinar
Journal in the top 25%: Yes
No. of journals in the cat.: 152
Citations: 81
Citations: 81
- 31** ABEL ROS LAO; ANTONIO BERMEJO GÓMEZ; Aggarwal-, Varinder K.. BENZYLIC BORON REAGENTS BEHAVING AS ALLYLIC BORON REAGENTS TOWARDS ALDEHYDES: A NEW ASYMMETRIC REACTION LEADING TO HOMOALLYLIC ALCOHOLS WITH CONCOMITANT DEAROMATISATION. *Chemistry a European Journal*. 16, pp. 9741 - 9745. Wiley-VCH, 2010. ISSN 0947-6539
- Type of production:** Scientific paper
Position of signature: 1
- Total no. authors:** 3
Impact source: ISI
Impact index in year of publication: 5.476
Position of publication: 18
- Source of citations:** WOS
Source of citations: SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Química Multidisciplinar
Journal in the top 25%: Yes
No. of journals in the cat.: 147
Citations: 7
Citations: 9

- 32** FRANCISCO JAVIER IGLESIAS SIGÜENZA; ABEL ROS LAO; ELENA DÍEZ MARTÍN; ANTONIO MAGRIZ TASCON; ARCADIO VÁZQUEZ ÁLVAREZ; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. C2-SYMMETRIC S/C/S LIGANDS BASED ON N-HETEROCYCLIC CARBENES: A NEW LIGAND ARCHITECTURE FOR ASYMMETRIC CATALYSIS. Dalton Transactions. pp. 8485 - 8488. RSC, 2009. Available on-line at: <cd3bacca-c036-487b-8e33-2f8e0d97c6ad>. ISSN 1477-9226
- Type of production:** Scientific paper
Position of signature: 2
- Impact source:** ISI
Impact index in year of publication: 4.081
Position of publication: 7
- Source of citations:** WOS
Source of citations: SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Química Inorgánica
Journal in the top 25%: Yes
No. of journals in the cat.: 44
Citations: 39
Citations: 41
- 33** Bagutski-,Viktor; ABEL ROS LAO; Aggarwal-, Varinder K.. IMPROVED METHOD FOR THE CONVERSION OF PINACOLBORANIC ESTERS INTO TRIFLUOROBORATE SALTS: FACILE SYNTHESIS OF CHIRAL SECONDARY AND TERTIARY TRIFLUOROBORATES. Tetrahedron. 65, pp. 9956 - 9960. Elsevier, 2009. Available on-line at: <b90ee137-39c5-41ed-8b8a-9c7962ef6727>. ISSN 0040-4020
- Type of production:** Scientific paper
Position of signature: 2
- Total no. authors:** 3
Impact source: ISI
Impact index in year of publication: 3.219
Position of publication: 13
- Source of citations:** WOS
Source of citations: SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Química Orgánica
Journal in the top 25%: Yes
No. of journals in the cat.: 57
Citations: 70
Citations: 71
- 34** FRANCISCO JAVIER IGLESIAS SIGÜENZA; ABEL ROS LAO; ELENA DÍEZ MARTÍN; ELEUTERIO ALVAREZ GONZALEZ; MANUEL ALCARAZO VELASCO; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. SYNTHESIS, STRUCTURE AND PROPERTIES OF [1,2,4]TRIAZOLO[4,3-A]PYRIDIN-3-YLIDENE RHODIUM AND PALLADIUM COMPLEXES. Dalton Transactions. pp. 7113 - 7120. RSC, 2009. Available on-line at: <7cab55b8-c172-4fdd-956a-4196f324e760>. ISSN 1477-9226
- Type of production:** Scientific paper
Position of signature: 2
- Total no. authors:** 7
Impact source: ISI
Impact index in year of publication: 4.081
Position of publication: 7
- Source of citations:** WOS
Source of citations: SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Química inorgánica
Journal in the top 25%: Yes
No. of journals in the cat.: 44
Citations: 19
Citations: 16
- 35** ABEL ROS LAO; MANUEL ALCARAZO VELASCO; FRANCISCO JAVIER IGLESIAS SIGÜENZA; ELENA DÍEZ MARTÍN; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. STEREOSELECTIVE SYNTHESIS OF RHODIUM(I) 4-(DIALKYLAMINO)TRIAZOL-5-YLIDENE

COMPLEXES. Organometallics. 27 - 18, pp. 4555 - 4564. ACS Publications, 2008. Available on-line at: <efdfd028-0aa6-461b-9134-7ea4d799a988>. ISSN 0276-7333

Type of production: Scientific paper

Position of signature: 1

Impact source: ISI

Impact index in year of publication: 3.815

Position of publication: 5

Impact source: ISI

Impact index in year of publication: 3.815

Position of publication: 8

Impact source: ISI

Impact index in year of publication: 3.815

Position of publication: 8

Source of citations: WOS

Source of citations: SCOPUS

Format: Journal

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

Category: Química Inorgánica

Journal in the top 25%: Yes

No. of journals in the cat.: 43

Category: Química Orgánica

Journal in the top 25%: Yes

Category: Química Orgánica

Journal in the top 25%: Yes

No. of journals in the cat.: 55

Citations: 41

Citations: 39

- 36** STEPHEN JAMES ROSEBLADE -; ABEL ROS LAO; DAVID MONGE FERNÁNDEZ; MANUEL ALCARAZO VELASCO; ELEUTERIO ALVAREZ GONZALEZ; JOSE M^a LASSALETTA SIMON; ROSARIO FERNÁNDEZ FERNÁNDEZ. IMIDAZO[1,5-A]PYRIDIN-3-YLIDENE/THIOETHER MIXED C/S LIGANDS AND COMPLEXES THEREOF. Organometallics. 26 - 10, pp. 2570 - 2578. ACS Publications, 2007. Available on-line at: <<http://dx.doi.org/10.1021/om070063r>>. ISSN 0276-7333

Type of production: Scientific paper

Position of signature: 2

Impact source: ISI

Impact index in year of publication: 3.833

Position of publication: 10

Impact source: ISI

Impact index in year of publication: 3.833

Position of publication: 6

Source of citations: WOS

Source of citations: SCOPUS

Format: Journal

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

Category: Química Orgánica

Journal in the top 25%: Yes

No. of journals in the cat.: 56

Category: Química Inorgánica

Journal in the top 25%: Yes

No. of journals in the cat.: 43

Citations: 114

Citations: 116

- 37** ABEL ROS LAO; DAVID MONGE FERNÁNDEZ; MANUEL ALCARAZO VELASCO; ELEUTERIO ALVAREZ GONZALEZ; JOSE M^a LASSALETTA SIMON; ROSARIO FERNÁNDEZ FERNÁNDEZ. SYNTHESIS, STRUCTURE, AND APPLICATIONS OF N-DIALKYLAMINO-N₂-ALKYLIMIDAZOL-2-YLIDENES AS A NEW TYPE OF NHC LIGANDS. Organometallics. 25 - 26, pp. 6039 - 6046. ACS Publications, 2006. Available on-line at: <<http://dx.doi.org/10.1021/om060788f>>. ISSN 0276-7333

Type of production: Scientific paper

Position of signature: 1

Impact source: ISI

Impact index in year of publication: 3.632

Position of publication: 9

Source of citations: WOS

Format: Journal

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

Category: Química Orgánica

Journal in the top 25%: Yes

No. of journals in the cat.: 56

Citations: 67

**Source of citations:** SCOPUS**Citations:** 67

- 38** ABEL ROS LAO; ANTONIO MAGRIZ TASCON; Dietrich-, Hansjoerg; Ford-, Mark; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. TRANSFER HYDROGENATION OF ALPHA-BRANCHED KETIMINES: ENANTIOSELECTIVE SYNTHESIS OF CYCLOALKYLAMINES VIA DYNAMIC KINETIC RESOLUTION. *Adv. Synth. Catal.* 347 - 15, pp. 1917 - 1920. Wiley-VCH, 2005. Available on-line at: <<http://dx.doi.org/10.1002/adsc.200505291>>. ISSN 1615-4150
- Type of production:** Scientific paper
Position of signature: 1
- Total no. authors:** 6
Impact source: ISI
Impact index in year of publication: 4.632
Position of publication: 1
- Impact source:** ISI
Impact index in year of publication: 4.632
Position of publication: 4
- Source of citations:** WOS
Source of citations: SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Category:** Química aplicada
Journal in the top 25%: Yes
No. of journals in the cat.: 59
- Category:** Química Orgánica
Journal in the top 25%: Yes
No. of journals in the cat.: 55
- Citations:** 49
Citations: 49
- 39** ABEL ROS LAO; MANUEL ALCARAZO VELASCO; DAVID MONGE FERNÁNDEZ; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. STEREOSELECTIVE SYNTHESIS OF CATIONIC HETEROBIDENTATE C(NHC)/SR RHODIUM(I) COMPLEXES USING STEREODIRECTING N,N-DIALKYLAMINO GROUPS. *Tetrahedron: asymmetry.* 21, pp. 1557 - 1562. Elsevier, 2010. ISSN 0957-4166
- Type of production:** Scientific paper
Position of signature: 1
- Total no. authors:** 6
Impact source: ISI
Impact index in year of publication: 2.484
Position of publication: 21
- Source of citations:** WOS
Source of citations: SCOPUS
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Category:** Química Orgánica
Journal in the top 25%: No
No. of journals in the cat.: 56
- Citations:** 4
Citations: 4
- Relevant publication:** No
- 40** ABEL ROS LAO; ELENA DÍEZ MARTÍN; MARÍA EUGENIA MARQUÉS LÓPEZ; MARÍA ELOÍSA MARTÍN ZAMORA; JUAN VÁZQUEZ CABELLO; FRANCISCO JAVIER IGLESIAS SIGÜENZA; RAFAEL RODRÍGUEZ PAPPALARDO; ELEUTERIO ALVAREZ GONZALEZ; JOSE M^a LASSALETTA SIMON; ROSARIO FERNÁNDEZ FERNÁNDEZ. EXPERIMENTAL AND THEORETICAL STUDIES ON THE ASYMMETRIC CYANOSILYLATION OF C2-SYMMETRIC HYDRAZONES. *Tetrahedron: asymmetry.* 19 - 8, pp. 998 - 1004. Elsevier, 2008. Available on-line at: <[ad9b4a05-ac8a-4165-8068-4e16d257f2d5](http://dx.doi.org/10.1016/j.asymt.2008.04.005)>. ISSN 0957-4166
- Type of production:** Scientific paper
Position of signature: 1
- Impact source:** ISI
Impact index in year of publication: 2.796
Position of publication: 17
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- Category:** Química Orgánica
Journal in the top 25%: No
No. of journals in the cat.: 55

Source of citations: WOS

Citations: 12

Source of citations: SCOPUS

Citations: 14

Relevant publication: No

- 41** Abel Ros; Pedro Ramírez-López; Rosario Fernández; José María Lassaletta. Chapter 1. Asymmetric Synthesis of axially chiral biaryls and heterobiaryls. Atropoisomerism and Axial Chirality. pp. doi.org/10.1142/q0192. World Scientific, 2018. ISBN 978-1-78634-645-2
Type of production: Book chapter **Format:** Book
Position of signature: 1 **Degree of contribution:** Author or co-author of chapter in book
Total no. authors: 4
- 42** Abel Ros; Rosario Fernández; José María Lassaletta. 2.12. C-B Bond Formation by Arene C-H Activation. Science of Synthesis. Catalytic Transformations via C-H Activation Vol 2. (Ed. Jin-Quan Yu). pp. 405 - 446. Georg Thieme Verlag, 2015. ISBN 9783132057210
Type of production: Book chapter **Format:** Book
Position of signature: 1 **Degree of contribution:** Author or co-author of chapter in book
- 43** Abel Ros; Inmaculada Matas. Chapter 3. Metal Catalyzed Multicomponent Reactions. Multicomponent Reactions: Concepts and Applications for Design and Synthesis. (Ed. Eugenia Marqués-López and Raquel P. Herrera). pp. 72 - 126. John Wiley & Sons, 2015. ISBN 978-1-118-01600-8
Type of production: Book chapter **Format:** Book
Position of signature: 1 **Degree of contribution:** Author or co-author of chapter in book
- 44** Abel Ros; Rosario Fernández; José María Lassaletta. 4,4,5,5-TETRAMETHYL-1,3,2-DIOXABOROLANE. e-Eros: Encyclopedia of Reagents for Organic Synthesis (Ed André B. Charette). pp. DOI: 10.1002/047084289X.rn00574.pub2. John Wiley & Sons Ltd., 2014.
Type of production: Book chapter **Format:** Book

Works submitted to national or international conferences

- 1** **Title of the work:** Catalytic Asymmetric synthesis of Axially Chiral Diamines by Reductive Amination and DKR
Name of the conference: XXXVII REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: San Sebastián, Spain
Date of event: 26/05/2019
End date: 30/05/2019
Organising entity: RSEQ
 Valentin Hornillos; Jose Alberto Carmona; carlos Rodríguez Franco; Abel Ros; Javier Iglesias Sigüenza; Rosario Fernández; Jose María Lassaletta. "OC-18".
- 2** **Title of the work:** Hydroarylation of double bonds via Ir-catalysed C-H activation for the synthesis of heterobiaryls with axial and central chirality
Name of the conference: XXXVII REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: San Sebastián, Spain

Date of event: 26/05/2019

End date: 30/05/2019

Organising entity: RSEQ

Antonio Romero Arenas; Abel Ros; Valentin Hornillos; Javier Iglesias Sigüenza; Joaquín López Serrano; Rosario Fernández; Jose María Lassaletta. "FP-18".

3 Title of the work: A Dynamic Kinetic Asymmetric Heck Reaction for the Simultaneous Generation of Central and Axial Chirality

Name of the conference: XXVII Reunión Bienal de Química Orgánica

Type of event: Conference

Type of participation: Participatory - others

Reasons for participation: Open access

Corresponding author: No

City of event: Santiago de Compostela, Spain

Date of event: 20/06/2018

End date: 22/06/2018

Organising entity: GEQOrg/Universidad de Santiago de Compostela

Jose Alberto Carmona; Valentin Hornillos; Pedro Ramírez; Abel Ros; Javier Iglesias-Sigüenza; Rosario Fernández; José M. Lassaletta. En: Comunicación Flash FP-5.

4 Title of the work: Asymmetric Synthesis of Heterobiaryls with Simultaneous Generation of Central and Axial Chirality: Ir-catalyzed Hydroarylation of Vinylethers

Name of the conference: XXVII Reunión Bienal de Química Orgánica

Type of event: Conference

Type of participation: Participatory - oral communication

Reasons for participation: Open access

Corresponding author: Yes

City of event: Santiago de Compostela, Spain

Date of event: 20/06/2018

End date: 22/06/2018

Organising entity: GEQOrg/Universidad de Santiago de Compostela

En: OC-13.

5 Title of the work: Circularly Polarized Luminescence of Azabora[5]helicenes

Name of the conference: XXVII Reunión Bienal de Química Orgánica

Type of event: Conference

Type of participation: Participatory - poster

Reasons for participation: Open access

Corresponding author: Yes

City of event: Santiago de Compostela, Spain

Date of event: 20/06/2018

End date: 22/06/2018

Organising entity: GEQOrg/Universidad de Santiago de Compostela

Zoe Domínguez; Giovanna Longhi; Uwe Pischel; Abel Ros. En: P-173.

6 Title of the work: Dynamic Kinetic Asymmetric Cross-Coupling for the Synthesis of Axially Chiral Heterobiaryl Alkenes: A Carbene Strategy

Name of the conference: XXVII Reunión Bienal de Química Orgánica

Type of event: Conference

Type of participation: Participatory - poster

Reasons for participation: Open access

Corresponding author: No

City of event: Santiago de Compostela, Spain

Date of event: 20/06/2018



End date: 22/06/2018

Organising entity: GEQOrg/Universidad de Santiago de Compostela

Shivashankar Kattela; Carlos Roque D. Correia; Abel Ros; Valentin Hornillos; Rosario Fernández; José M. Lassaletta. En: P-197.

7 Title of the work: Dynamic Kinetic Resolution of Heterobiaryl Ketones via Zn-catalyzed Asymmetric Hydrosilylation

Name of the conference: XXVII Reunión Bienal de Química Orgánica

Type of event: Conference

Type of participation: Participatory - poster

Reasons for participation: Open access

Corresponding author: No

City of event: Santiago de Compostela, Spain

Date of event: 20/06/2018

End date: 22/06/2018

Organising entity: GEQOrg/Universidad de Santiago de Compostela

Valentin Hornillos; Jose Alberto Carmona; Abel Ros; Javier Iglesias-Sigüenza; Joaquín López-Serrano; Rosario Fernández; José M. Lassaletta. En: P-198.

8 Title of the work: IAN-type amine N-oxides as catalysts for the asymmetric allylation and crotylation of aromatic aldehydes

Name of the conference: XXVII Reunión Bienal de Química Orgánica

Type of event: Conference

Type of participation: Participatory - others

Reasons for participation: Open access

Corresponding author: Yes

City of event: Santiago de Compostela, Spain

Date of event: 20/06/2018

End date: 22/06/2018

Organising entity: GEQOrg/Universidad de Santiago de Compostela

Antonio Romero-Arenas; Abel Ros; Pedro Ramírez; Javier Iglesias-Sigüenza; Rosario Fernández; José M. Lassaletta. En: Comunicación Flash FP-81.

9 Title of the work: Dynamic kinetic resolution of heterobiaryl ketones via Zn-catalyzed asymmetric hydrosilylation

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

Type of event: Conference

Type of participation: Participatory - others

Reasons for participation: Open access

Corresponding author: No

City of event: Oviedo, Spain

Date of event: 06/06/2018

End date: 08/06/2018

Organising entity: Universidad de Oviedo

Type of entity: University

Jose Alberto Carmona; Valentin Hornillos; Abel Ros; Javier Iglesias-Sigüenza; Joaquín López-Serrano; Rosario Fernández; Jose M. Lassaletta. En: Comunicación Flash P-22.

10 Title of the work: Ir-catalysed hydroarylation of Vinyl Ethers: Asymmetric Synthesis of heterobiaryls with Central and Axial Chirality

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

Type of event: Conference

Type of participation: Participatory - others

Reasons for participation: Open access

Corresponding author: Yes

City of event: Oviedo, Spain



Date of event: 06/06/2018

End date: 08/06/2018

Organising entity: Universidad de Oviedo

Type of entity: University

Antonio Romero-Arenas; Abel Ros; Valentin Hornillos; Javier Iglesias-Sigüenza; Joaquín López-Serrano; Rosario Fernández; Jose M. Lassaletta. En: Comunicación Flash P-29.

- 11 Title of the work:** Synthesis of axially chiral heterobiaryl alkynes via dynamic kinetic asymmetric alkynylation

Name of the conference: 245th ACS National Meeting & Exposition

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

City of event: Washington, United States of America

Date of event: 20/08/2017

End date: 24/08/2017

Organising entity: American Chemical Society

Valentin Hornillos; Abel Ros; Pedro Ramírez-López; Javier Iglesias-Sigüenza; Rosario Fernández; José M^a Lassaletta. En: ORGN 355.

- 12 Title of the work:** Highly diastereo- and enantioselective Heck reaction for the synthesis of heterobiaryls with both central and axial chirality

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

Type of event: Conference

Geographical area: National

Type of participation: Participatory - poster

City of event: Ciudad Real, Spain

Date of event: 05/07/2017

End date: 07/07/2017

Organising entity: Universidad Castilla la Mancha/ Red Orfeo-Cinca

Jose Alberto Carmona; Valentin Hornillos; Pedro Ramírez-López; Abel Ros; Rosario Fernández; Javier Iglesias-Sigüenza; José M^a Lassaletta. En: FP4.

- 13 Title of the work:** Highly diastereo- and enantioselective Heck reaction for the synthesis of heterobiaryls with both central and axial chirality

Name of the conference: XXXVI Reunión Bienal de la RSEQ

Type of event: Conference

Geographical area: National

Type of participation: Participatory - poster

City of event: Sitges (Tarragona), Spain

Date of event: 25/06/2017

End date: 29/06/2017

Organising entity: Universidad Autónoma de Barcelona/RSEQ

Jose Alberto Carmona; Valentin Hornillos; Pedro Ramírez-López; Abel Ros; Rosario Fernández; Javier Iglesias-Sigüenza; José M^a Lassaletta. En: PP-149.

- 14 Title of the work:** TWO-PHOTON FLUORESCENCE AS TOOL FOR IMAGING IN CELLS

Name of the conference: XXXVI Reunión Bienal de la RSEQ

Type of event: Conference

Geographical area: National

Type of participation: Participatory - poster

City of event: Sitges (Tarragona), Spain

Date of event: 25/06/2017

End date: 29/06/2017

Organising entity: Universidad Autónoma de Barcelona/RSEQ



Daniel Collado; Yolanda Vida; Francisco Nájera; Vania F. Pais; Patricia Remón; A. Domínguez; Abel Ros; Uwe Pischel; Ezequiel Pérez-Inestrosa. En: PP-254.

- 15** **Title of the work:** Dynamic Kinetic Asymmetric Buchwald-Hartwig Reaction for the Synthesis of IAN-Amines
Name of the conference: XXVI Reunión Bienal de Química Orgánica
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication
City of event: Punta Umbría (Huelva), Spain
Date of event: 14/06/2016
End date: 17/06/2016
Organising entity: Universidad de Huelva/RSEQ **Type of entity:** Associations and Groups
Antonio Romero-Arenas; Pedro Ramírez-López; Abel Ros; Javier Iglesias-Sigüenza; Rosario Fernández; José M. Lassaletta. "978-84-92944-16-3". En: CF38 (Comunicación Flash Antonio Romero). ISBN 978-84-92944-16-3
- 16** **Title of the work:** Enantioselective Synthesis of QUINAP and Its Congeners via Dynamic Kinetic Asymmetric Transformation (DYKAT)
Name of the conference: XXVI Reunión Bienal de Química Orgánica
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication
City of event: Punta Umbría (Huelva), Spain
Date of event: 14/06/2016
End date: 17/06/2016
Organising entity: Universidad de Huelva/RSEQ **Type of entity:** Associations and Groups
Abel Ros; Pedro Ramírez-López; Beatriz Estepa; Bela Fiser; Enrique Gómez-Bengoia; Rosario Fernández; José M. Lassaletta. "978-84-92944-16-3". En: CO3 (Comunicación Oral Pedro Ramírez). ISBN 978-84-92944-16-3
- 17** **Title of the work:** Red-Emitting Novel N,N-Organoboron Chelates and their use in Bioimaging
Name of the conference: XXVI Reunión Bienal de Química Orgánica
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - poster
City of event: Punta Umbría (Huelva), Spain
Date of event: 14/06/2016
End date: 17/06/2016
Organising entity: Universidad de Huelva/RSEQ **Type of entity:** Associations and Groups
Vania F. Pais; Daniel Collado; Ezequiel Pérez-Inestrosa; Rosario Fernández; José M. Lassaletta; Abel Ros; Uwe Pischel. "978-84-92944-16-3". En: P182. ISBN 978-84-92944-16-3
- 18** **Title of the work:** Asymmetric Synthesis of Axially Chiral P,N-Ligands via Dynamic Asymmetric C-P Cross-Coupling Reaction
Name of the conference: XXXV Bienal de la Real Sociedad Española de Química (RSEQ)
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - poster
City of event: A Coruña, Spain
Date of event: 19/07/2015
End date: 23/07/2015
Organising entity: Universidad de A Coruña/RSEQ
Abel Ros; Pedro Ramírez-López; Beatriz Estepa; Rosario Fernández; José M. Lassaletta. ISBN 978-84-606-9786-2



- 19** **Title of the work:** Asymmetric Synthesis of Axially Chiral P,N-ligands via Dynamic Asymmetric C–P Cross–Coupling Reaction
Name of the conference: 18th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS 18)
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Tarragona, Spain
Date of event: 28/06/2015
End date: 02/07/2015
Organising entity: FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ)
Enrique Gómez-Bengoia; Pedro Ramírez-López; Abel Ros; Rosario Fernández; José M. Lassaletta; Beatriz Estepa; Béla Fiser.
- 20** **Title of the work:** Asymmetric Synthesis of heterobiaryls via dynamic kinetic resolution
Name of the conference: 7th Spanish-Portuguese-Japanese Organic Chemistry Symposium
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Sevilla, Spain
Date of event: 23/06/2015
End date: 26/06/2015
Organising entity: Universidad de Sevilla/CSIC
Rocío López-Rodríguez; Abel Ros; Rosario Fernández; José M. Lassaletta.
- 21** **Title of the work:** Enantioselective Synthesis of QUINAP and its Congeners via Dynamic Kinetic Asymmetric Transformation (DYKAT)
Name of the conference: 7th Spanish-Portuguese-Japanese Organic Chemistry Symposium
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Sevilla, Spain
Date of event: 23/06/2015
End date: 26/06/2015
Organising entity: Universidad de Sevilla/CSIC
Pedro Ramírez-López; Abel Ros; Beatriz Estepa; Béla Fiser; Enrique Gómez-Bengoia; Rosario Fernández; José M. Lassaletta.
- 22** **Title of the work:** Asymmetric Synthesis of heterobiaryls via dynamic kinetic resolution
Name of the conference: VIII School on Organometallic Chemistry Marcial Moreno Mañas
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication
City of event: Sevilla, Spain
Date of event: 15/06/2015
End date: 17/06/2015
Organising entity: Universidad de Sevilla/CSIC
Rocío López-Rodríguez; Abel Ros; Rosario Fernández; José M. Lassaletta.
- 23** **Title of the work:** On the Mechanism of the Dynamic Kinetic Strategy for the Asymmetric Synthesis of Chiral Heterobiaryls
Name of the conference: 10th Triennial Congress of the World Association of Theoretical and Computational Chemists - WATOC 2014
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Santiago de Chile, Chile



Date of event: 05/10/2014

End date: 10/10/2014

Béla Fiser; Abel Ros; Pedro Ramírez-López; Rosario Fernández; José M. Lassaletta; Enrique Gómez-Bengoa.

24 Title of the work: "Asymmetric Synthesis of Heterobiaryls via Dynamic Asymmetric Cross Coupling"

Name of the conference: "XXV Reunión Bienal de Química Orgánica"

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Reasons for participation: Upon invitation

City of event: Alicante, Valencian Community, Spain

Date of event: 04/06/2014

End date: 06/06/2014

Organising entity: Departamento de Química Orgánica, Universidad de Alicante
Abel Ros Laó.

Type of entity: University Department

25 Title of the work: ACOPLAMIENTO CRUZADO VIA TRANSFORMACIÓN CINÉTICA DINÁMICA ASIMÉTRICA. SÍNTESIS ASIMÉTRICA DE COMPUESTOS HETEROBIARÍLICOS

Name of the conference: XXXIV Reunión Bienal de la RSEQ

Type of event: Conference

Geographical area: National

Type of participation: Participatory - poster

City of event: Santander, Spain

Date of event: 15/09/2013

End date: 18/09/2013

Organising entity: Universidad de Cantabria/RSEQ

Abel Ros; Beatriz Estepa; Pedro Ramírez-López; Eleuterio Álvarez; Rosario Fernández; José M. Lassaletta. ISBN 978-84-695-8511-5

26 Title of the work: BOR?ON OR OFF: AN UNEXPECTED DISCOVERY OF A VERSATILE CLASS OF FLUORESCENT ORGANOBORON SWITCHES AND THEIR APPLICATIONS

Name of the conference: XXXIV Reunión Bienal de la RSEQ

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

City of event: Santander, Spain

Date of event: 15/09/2013

End date: 18/09/2013

Organising entity: Universidad de Cantabria/RSEQ

Uwe Pischel; Vania F. Pais; Abel Ros; Rosario Fernández; Jose M. Lassaletta; H. S. El?Sheshtawy. ISBN 978-84-695-8511-5

27 Title of the work: SINTESIS ASIMÉTRICA DE COMPUESTOS HETEROBIARILICOS VÍA RESOLUCIÓN CINÉTICA DINÁMICA

Name of the conference: XXXIV Reunión Bienal de la RSEQ

City of event: Santander, Spain

Date of event: 15/09/2013

End date: 18/09/2013

Organising entity: Universidad de Cantabria/RSEQ

Rocío López-Rodríguez; Abel Ros; Rosario Fernández; Jose M. Lassaletta. ISBN 978-84-695-8511-5



- 28** **Title of the work:** Ir-CATALYZED ORTHO-BORYLATION OF ARENES USING HEMILABILE N,N₂ LIGANDS: A DFT MECHANISTIC STUDY
Name of the conference: XXV International Conference on Organometallic Chemistry
Type of event: Conference
City of event: LISBOA (PORTUGAL), Portugal
Date of event: 02/09/2012
End date: 07/09/2012
Organising entity: Universidad de Lisboa **Type of entity:** University
Jover, Jesús; ABEL ROS LAO; ROCÍO LÓPEZ RODRÍGUEZ; Ujaque, Gregori; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON; FELIU MASERAS CUNI.
- 29** **Title of the work:** NITROGEN-DIRECTED Ir-CATALYZED BORYLATION AND DIBORYLATION OF ARENES USING HYDRAZONE-BASED LIGANDS
Name of the conference: XXV International Conference on Organometallic Chemistry
Type of event: Conference **Geographical area:** Non EU International
City of event: LISBOA, Portugal
Date of event: 02/09/2012
End date: 07/09/2012
Organising entity: Universidad de Lisboa **Type of entity:** University
Publication in conference proceedings: Yes
ABEL ROS LAO; ROCÍO LÓPEZ RODRÍGUEZ; BEATRIZ ESTEPA SÁNCHEZ; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON.
- 30** **Title of the work:** On the origin of the enantioselectivity in an asymmetric Suzuki-Miyaura coupling: a DFT study
Name of the conference: XXV International Conference on Organometallic Chemistry
Type of event: Conference **Geographical area:** Non EU International
City of event: LISBOA, Portugal
Date of event: 02/09/2012
End date: 07/09/2012
Organising entity: Universidad de Lisboa **Type of entity:** University
García-melchor, Max; ABEL ROS LAO; ANTONIO BERMEJO GÓMEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON; Lledós, Agustí; Ujaque, Gregori.
- 31** **Title of the work:** Fosfino-hidrazonas como Ligandos en la Reacción Asimétrica de Suzuki-Miyaura
Name of the conference: XXIV Reunión Bienal de Química Orgánica
Type of event: Conference **Geographical area:** National
City of event: SAN SEBASTIÁN, Basque Country, Spain
Date of event: 11/07/2012
End date: 13/07/2012
Organising entity: Universidad del País Vasco/RSEQ **Type of entity:** University
ABEL ROS LAO; ANTONIO BERMEJO GÓMEZ; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON; BEATRIZ ESTEPA SÁNCHEZ.
- 32** **Title of the work:** Hidrazonas como grupo director y ligando en la borylación orto-dirigida de arenos
Name of the conference: XXIV Reunión Bienal de Química Orgánica
Type of event: Conference **Geographical area:** National
City of event: SAN SEBASTIÁN, Basque Country, Spain
Date of event: 11/07/2012
End date: 13/07/2012
Type of entity: University



Organising entity: Universidad del País Vasco/RSEQ

ROCÍO LÓPEZ RODRÍGUEZ; BEATRIZ ESTEPA SÁNCHEZ; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON; ABEL ROS LAO.

- 33** **Title of the work:** Diborilacion o,o-dirigida de arenos catalizada por iridio: hidrazona como grupo director
Name of the conference: XXX Reunión del grupo especializado en Química Organometálica
Type of event: Conference **Geographical area:** National
City of event: CASTELLÓN, Valencian Community, Spain
Date of event: 12/06/2012
End date: 14/06/2012
Organising entity: Universidad Jaume I/GEQO **Type of entity:** University
ROCÍO LÓPEZ RODRÍGUEZ; ABEL ROS LAO; BEATRIZ ESTEPA SÁNCHEZ; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON.
- 34** **Title of the work:** Mechanistic DFT study of nitrogen-directed Ir-catalyzed arene borylations using hemilabile N,N-ligands
Name of the conference: XXX Reunión del grupo especializado en Química Organometálica
Type of event: Conference **Geographical area:** National
City of event: CASTELLÓN, Valencian Community, Spain
Date of event: 12/06/2012
End date: 14/06/2012
Organising entity: Universidad Jaume I/GEQO
Jover, Jesús; ABEL ROS LAO; ROCÍO LÓPEZ RODRÍGUEZ; Ujaque, Gregori; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON; Maseras, Feliu.
- 35** **Title of the work:** Nitrogen-directed Ir-Catalyzed arene borylation using hydrazone-based ligands
Name of the conference: 9th Spanish-Italian Symposium on Organic Chemistry
Type of event: Conference **Geographical area:** Non EU International
City of event: Tenerife, Canary Islands, Spain
Date of event: 10/02/2012
End date: 14/02/2012
Organising entity: Universidad de la Laguna/RSEQ
ABEL ROS LAO; BEATRIZ ESTEPA SÁNCHEZ; ROCÍO LÓPEZ RODRÍGUEZ; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON.
- 36** **Title of the work:** Nitrogen-directed Ir-catalyzed arene borylation using hydrazone-based ligands
Name of the conference: VIII Simposio de Jóvenes Investigadores RSEQ-Sigma Aldrich
Type of event: Conference
City of event: TORREMOLINOS, Andalusia, Spain
Date of event: 24/10/2011
End date: 28/10/2011
Organising entity: Grupo de Jóvenes Investigadores **Type of entity:** Associations and Groups de la RSEQ
ROSARIO FERNÁNDEZ FERNÁNDEZ; ABEL ROS LAO; BEATRIZ ESTEPA SÁNCHEZ; ROCÍO LÓPEZ RODRÍGUEZ; ELEUTERIO ALVAREZ GONZALEZ.
- 37** **Title of the work:** DISEÑO DE CATALIZADORES DE IR(III) CON LIGANDOS N,N HEMILÁBILES: BORILACIÓN DIRECTA DE ARENOS DIRIGIDA POR FUNCIONES NITROGENADAS
Name of the conference: REUNION BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA
Type of event: Conference **Geographical area:** National
City of event: VALENCIA, Valencian Community, Spain



Date of event: 25/07/2011

End date: 28/07/2011

Organising entity: Universidad de Valencia/RSEQ **Type of entity:** University

ROCÍO LÓPEZ RODRÍGUEZ; ABEL ROS LAO; BEATRIZ ESTEPA SÁNCHEZ; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. "DISEÑO DE CATALIZADORES DE IR(III) CON LIGANDOS N,N HEMILÁBILES: BORILACIÓN DIRECTA DE ARENOS DIRIGIDA POR FUNCIONES NITROGENADAS". En: CD DE ACTAS DE LA XXXIII REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA. pp. F27 - F27.

38 Title of the work: NEW HYDRAZONE-BASED LIGANDS FOR NITROGEN-DIRECTED IR-CATALYZED ARENE BORYLATION

Name of the conference: 22ND INTERNATIONAL SYMPOSIUM: SYNTHESIS IN ORGANIC CHEMISTRY

Type of event: Conference

Geographical area: Non EU International

City of event: CAMBRIDGE, United Kingdom

Date of event: 11/07/2011

End date: 14/07/2011

Organising entity: University of Cambridge/ RSC **Type of entity:** University

BEATRIZ ESTEPA SÁNCHEZ; ABEL ROS LAO; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. "NEW HYDRAZONE-BASED LIGANDS FOR NITROGEN-DIRECTED IR-CATALYZED ARENE BORYLATION". En: 22ND INTERNATIONAL SYMPOSIUM: SYNTHESIS IN ORGANIC CHEMISTRY. pp. P31 - P31.

39 Title of the work: NITROGEN-DIRECTED IR-CATALYZED ARENE BORYLATION USING HYDRAZONE-BASED LIGANDS

Name of the conference: 17TH EUROPEAN SYMPOSIUM ON ORGANIC CHEMISTRY

Type of event: Conference

Geographical area: Non EU International

City of event: CRETA, Greece

Date of event: 10/07/2011

End date: 15/07/2011

Organising entity: University of Crete **Type of entity:** University

ABEL ROS LAO; BEATRIZ ESTEPA SÁNCHEZ; ELEUTERIO ALVAREZ GONZALEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. "NITROGEN-DIRECTED IR-CATALYZED ARENE BORYLATION USING HYDRAZONE-BASED LIGANDS". En: 17TH EUROPEAN SYMPOSIUM ON ORGANIC CHEMISTRY. pp. P2.241 - P2.241.

40 Title of the work: MODULACIÓN ESTEREOELECTRÓNICA DE LIGANDOS BASADOS EN HIDRAZONAS. APLICACIÓN EN LA REACCIÓN DE SUZUKI-MIYAUURA ASIMÉTRICA.

Name of the conference: XXVIII REUNIÓN BIENAL DEL GRUPO ESPECIALIZADO DE QUÍMICA ORGANOMETÁLICA

Type of event: Conference

Geographical area: National

City of event: PUNTA HUMBRÍA, HUELVA, Andalusia, Spain

Date of event: 07/09/2010

End date: 10/09/2010

Organising entity: Universidad de Huelva/GEQO **Type of entity:** University

ABEL ROS LAO; ANTONIO BERMEJO GÓMEZ; BEATRIZ ESTEPA SÁNCHEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. "MODULACIÓN ESTEREOELECTRÓNICA DE LIGANDOS BASADOS EN HIDRAZONAS. APLICACIÓN EN LA REACCIÓN DE SUZUKI-MIYAUURA ASIMÉTRICA.". En: XXVIII REUNIÓN BIENAL DEL GRUPO ESPECIALIZADO DE QUÍMICA ORGANOMETÁLICA. pp. P136 - P136.

41 Title of the work: HYDRAZONES AND BIS-HYDRAZONES AS LIGANDS IN ASYMMETRIC CATALYSIS

Name of the conference: 8TH SPANISH-ITALIAN SYMPOSIUM ON ORGANIC CHEMISTRY

Type of event: Conference

Geographical area: European Union



City of event: PADOVA, Italy

Date of event: 03/07/2010

End date: 06/07/2010

Organising entity: Universidad de Padova

Type of entity: University

ROSARIO FERNÁNDEZ FERNÁNDEZ; ANTONIO BERMEJO GÓMEZ; BEATRIZ ESTEPA SÁNCHEZ; ABEL ROS LAO; DAVID MONGE FERNÁNDEZ; MANUEL ALCARAZO VELASCO; JUAN VÁZQUEZ CABELLO; JOSE M^a LASSALETTA SIMON. "HYDRAZONES AND BIS-HYDRAZONES AS LIGANDS IN ASYMMETRIC CATALYSIS". En: 8TH SPANISH-ITALIAN SYMPOSIUM ON ORGANIC CHEMISTRY. pp. P49 - P49.

- 42 Title of the work:** STEREOELECTRONIC MODULATION OF 2,5-DISUBSTITUTED PYRROLIDINES. SYNTHESIS OF BISHYDRAZONES AND THEIR APPLICATION IN THE ASYMMETRIC SUZUKI-MIYAUURA REACTION

Name of the conference: 6TH EURASIAN MEETING ON HETEROCYCLIC CHEMISTRY

Type of event: Conference

Geographical area: Non EU International

City of event: ALICANTE, Valencian Community, Spain

Date of event: 30/06/2010

End date: 04/07/2010

Organising entity: Departamento Química Orgánica, **Type of entity:** University
Universidad de Alicante

ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON; ANTONIO BERMEJO GÓMEZ; ABEL ROS LAO; BEATRIZ ESTEPA SÁNCHEZ. "STEREOELECTRONIC MODULATION OF 2,5-DISUBSTITUTED PYRROLIDINES. SYNTHESIS OF BISHYDRAZONES AND THEIR APPLICATION IN THE ASYMMETRIC SUZUKI-MIYAUURA REACTION". En: 6TH EURASIAN MEETING ON HETEROCYCLIC CHEMISTRY. pp. 50 - 50.

- 43 Title of the work:** ADICIÓN 1,2 DE TRIFLUOROBORATOS ALQUÍLICOS QUIRALES A ALDEHÍDOS CATALIZADA POR RH (I)

Name of the conference: XXIII REUNIÓN BIENAL DE QUÍMICA ORGÁNICA

Type of event: Conference

Geographical area: National

City of event: MURCIA, ESPAÑA, Region of Murcia, Spain

Date of event: 16/06/2010

End date: 18/06/2010

Organising entity: Departamento Química
Orgánica/Universidad de Murcia

Type of entity: University

ABEL ROS LAO; Aggarwal-, Varinder K. "ADICIÓN 1,2 DE TRIFLUOROBORATOS ALQUÍLICOS QUIRALES A ALDEHÍDOS CATALIZADA POR RH (I)". En: XXIII REUNIÓN BIENAL DE QUÍMICA ORGÁNICA. pp. CO-085 - CO-085.

- 44 Title of the work:** FORMACIÓN DE ENLACES C-C EN SÍNTESIS ASIMÉTRICA: REACCIÓN DE SUZUKI-MIYAUURA

Name of the conference: V CONGRESO DE ESTUDIANTES DE QUÍMICA

Type of event: Conference

Geographical area: Regional

City of event: SEVILLA, Andalusia, Spain

Date of event: 2010

Organising entity: Facultad de Química, Universidad de Sevilla

ROCÍO LÓPEZ RODRÍGUEZ; BEATRIZ ESTEPA SÁNCHEZ; ANTONIO BERMEJO GÓMEZ; ABEL ROS LAO; ROSARIO FERNÁNDEZ FERNÁNDEZ. "FORMACIÓN DE ENLACES C-C EN SÍNTESIS ASIMÉTRICA: REACCIÓN DE SUZUKI-MIYAUURA". En: V CONGRESO DE ESTUDIANTES DE QUÍMICA. pp. P27 - P27.



- 45** **Title of the work:** C2-SYMMETRIC BIS-HYDRAZONES AS LIGANDS IN THE ASYMMETRIC SUZUKI-MIYAUURA CROSS-COUPPLING
Name of the conference: THE ELEVENTH INTERNATIONAL KYOTO CONFERENCE ON NEW ASPECTS OF ORGANIC CHEMISTRY
Type of event: Conference **Geographical area:** Non EU International
City of event: KYOTO, Japan
Date of event: 09/11/2009
End date: 13/11/2009
Organising entity: The Kinki Chemical Society **Type of entity:** Associations and Groups
Japan
ANTONIO BERMEJO GÓMEZ; ABEL ROS LAO; BEATRIZ ESTEPA SÁNCHEZ; JOSE M^a LASSALETTA SIMON; ROSARIO FERNÁNDEZ FERNÁNDEZ. "C2-SYMMETRIC BIS-HYDRAZONES AS LIGANDS IN THE ASYMMETRIC SUZUKI-MIYAUURA CROSS-COUPPLING". En: THE ELEVENTH INTERNATIONAL KYOTO CONFERENCE ON NEW ASPECTS OF ORGANIC CHEMISTRY. pp. PB-186 - PB-186.
- 46** **Title of the work:** ASYMMETRIC SUZUKI-MIYAUURA CROSS-COUPPLING USING C2-SYMMETRIC BIS-HYDRAZONES/PD CATALYSTS
Name of the conference: 5TH SPANISH-PORTUGUESE-JAPANESE ORGANIC CHEMISTRY SYMPOSIUM
Type of event: Conference **Geographical area:** Non EU International
City of event: OSAKA, Japan
Date of event: 06/11/2009
End date: 08/11/2009
ANTONIO BERMEJO GÓMEZ; ABEL ROS LAO; BEATRIZ ESTEPA SÁNCHEZ; JOSE M^a LASSALETTA SIMON; ROSARIO FERNÁNDEZ FERNÁNDEZ. "ASYMMETRIC SUZUKI-MIYAUURA CROSS-COUPPLING USING C2-SYMMETRIC BIS-HYDRAZONES/PD CATALYSTS". En: 5TH SPANISH-PORTUGUESE-JAPANESE ORGANIC CHEMISTRY SYMPOSIUM. pp. PP-04 - PP-04.
- 47** **Title of the work:** BIS-HIDRAZONAS C2-SIMÉTRICAS COMO LIGANDOS EN LA REACCIÓN ASIMÉTRICA DE ACOPLAMIENTO CRUZADO DE SUZUKI-MIYAUURA
Name of the conference: XXXII REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA
Type of event: Conference **Geographical area:** National
City of event: OVIEDO, Principality of Asturias, Spain
Date of event: 13/09/2009
End date: 18/09/2009
Organising entity: Universidad de Oviedo **Type of entity:** University
ABEL ROS LAO; BEATRIZ ESTEPA SÁNCHEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON; ANTONIO BERMEJO GÓMEZ. "BIS-HIDRAZONAS C2-SIMÉTRICAS COMO LIGANDOS EN LA REACCIÓN ASIMÉTRICA DE ACOPLAMIENTO CRUZADO DE SUZUKI-MIYAUURA". En: XXXII REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA. pp. OG1-10 - OG1-10.
- 48** **Title of the work:** DISEÑO, SÍNTESIS Y APLICACIONES DE COMPLEJOS DE RH(I) DE 4-DIALQUILAMINO-1,2,4-TRIAZOL-5-ILIDENOS QUIRALES
Name of the conference: XXXII REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA
Type of event: Conference **Geographical area:** National
City of event: OVIEDO, Principality of Asturias, Spain
Date of event: 13/09/2009
End date: 18/09/2009
Organising entity: Universidad de Oviedo **Type of entity:** University
ELENA DÍEZ MARTÍN; MANUEL ALCARAZO VELASCO; ABEL ROS LAO; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON; FRANCISCO JAVIER IGLESIAS SIGÜENZA. "DISEÑO, SÍNTESIS Y APLICACIONES DE COMPLEJOS DE RH(I) DE



4-DIALQUILAMINO-1,2,4-TRIAZOL-5-ILIDENOS QUIRALES". En: XXXII REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA. pp. PG1-80 - PG1-80.

- 49** **Title of the work:** DISEÑO, SÍNTESIS Y APLICACIONES DE NUEVOS CARBENOS N-HETEROCÍCLICOS TIPO Pincer S/CNH/S
Name of the conference: XXXII REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA
Type of event: Conference **Geographical area:** National
City of event: OVIEDO, Principality of Asturias, Spain
Date of event: 13/09/2009
End date: 18/09/2009
Organising entity: Universidad de Oviedo **Type of entity:** University
FRANCISCO JAVIER IGLESIAS SIGÜENZA; ABEL ROS LAO; ELENA DÍEZ MARTÍN; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON; ARCADIO VÁZQUEZ ÁLVAREZ. "DISEÑO, SÍNTESIS Y APLICACIONES DE NUEVOS CARBENOS N-HETEROCÍCLICOS TIPO Pincer S/CNH/S". En: XXXII REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA. pp. PG1-82 - PG1-82.
- 50** **Title of the work:** RHODIUM CATALYZED 1,2-ADDITION OF CHIRAL SECONDARY/TERTIARY ALKYL POTASSIUM TRIFLUOROBORATE SALTS ALDEHYDES
Name of the conference: XXXII REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA
Type of event: Conference **Geographical area:** National
City of event: OVIEDO, Principality of Asturias, Spain
Date of event: 13/09/2009
End date: 18/09/2009
Organising entity: Universidad de Oviedo **Type of entity:** University
ABEL ROS LAO; Aggarwal-, Varinder K. "RHODIUM CATALYZED 1,2-ADDITION OF CHIRAL SECONDARY/TERTIARY ALKYL POTASSIUM TRIFLUOROBORATE SALTS ALDEHYDES". En: XXXII REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA. pp. PG1-57 - PG1-57.
- 51** **Title of the work:** DESIGN, SYNTHESIS AND APLICATIONS OF NEW S/C/S Pincer TYPE N-HETEROCYCLIC CARBENES
Name of the conference: INTERNATIONAL CONFERENCE ON HETEROATOM CHEMISTRY
Type of event: Conference **Geographical area:** Non EU International
City of event: OVIEDO, Principality of Asturias, Spain
Date of event: 30/06/2009
End date: 04/07/2009
Organising entity: Universidad de Oviedo **Type of entity:** University
FRANCISCO JAVIER IGLESIAS SIGÜENZA; ABEL ROS LAO; ELENA DÍEZ MARTÍN; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON; ARCADIO VÁZQUEZ ÁLVAREZ. "DESIGN, SYNTHESIS AND APLICATIONS OF NEW S/C/S Pincer TYPE N-HETEROCYCLIC CARBENES". En: INTERNATIONAL CONFERENCE ON HETEROATOM CHEMISTRY. pp. 188 - 188.
- 52** **Title of the work:** C2-SYMMETRIC BIS-HYDRAZONES AS LIGANDS IN ASYMMETRIC CATALYSIS
Name of the conference: TENTH TETRAHEDRON SYMPOSIUM
Type of event: Conference **Geographical area:** Non EU International
City of event: PARIS, France
Date of event: 23/06/2009
End date: 26/06/2009
Organising entity: Tetrahedron/Elsevier **Type of entity:** Revista Científica/Editorial
ANTONIO BERMEJO GÓMEZ; ABEL ROS LAO; DAVID MONGE FERNÁNDEZ; JUAN VÁZQUEZ CABELLO; JOSE M^a LASSALETTA SIMON; ROSARIO FERNÁNDEZ FERNÁNDEZ. "C2-SYMMETRIC BIS-HYDRAZONES AS LIGANDS IN ASYMMETRIC CATALYSIS". En: TENTH TETRAHEDRON SYMPOSIUM. pp. C107 - C107.



53 Title of the work: C2-SYMMETRIC S/C/S LIGANDS BASED IN N-HETEROCYCLIC CARBENES: A NEW LIGAND ARCHITECTURE FOR ASYMMETRIC CATALYSIS

Name of the conference: TENTH TETRAHEDRON SYMPOSIUM

Type of event: Conference

Geographical area: Non EU International

City of event: PARIS, France

Date of event: 23/06/2009

End date: 26/06/2009

Organising entity: Tetrahedron/Elsevier

Type of entity: Revista Científica/Editorial

FRANCISCO JAVIER IGLESIAS SIGÜENZA; ABEL ROS LAO; ELENA DÍEZ MARTÍN; ARCADIO VÁZQUEZ ÁLVAREZ; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON.

"C2-SYMMETRIC S/C/S LIGANDS BASED IN N-HETEROCYCLIC CARBENES: A NEW LIGAND ARCHITECTURE FOR ASYMMETRIC CATALYSIS". En: TENTH TETRAHEDRON SYMPOSIUM. pp. B120 - B120.

54 Title of the work: RHODIUM CATALYZED 1,2-ADDITION OF CHIRAL SECONDARY/TERTIARY ALKYL POTASSIUM TRIFLUOROBORATE SALTS TO ALDEHYDES

Name of the conference: TENTH TETRAHEDRON SYMPOSIUM

Type of event: Conference

Geographical area: Non EU International

City of event: PARIS, France

Date of event: 23/06/2009

End date: 26/06/2009

Organising entity: Tetrahedron/Elsevier

Type of entity: Revista Científica/Editorial

ABEL ROS LAO; Aggarwal-, Varinder K. "RHODIUM CATALYZED 1,2-ADDITION OF CHIRAL SECONDARY/TERTIARY ALKYL POTASSIUM TRIFLUOROBORATE SALTS TO ALDEHYDES". En: TENTH TETRAHEDRON SYMPOSIUM. pp. B061 - B061.

55 Title of the work: CARBENOS N-HETEROCICLICOS DE PLATA: APLICACION EN CICLOADICIONES 1,3-DIPOLARES ENANTIOSELECTIVAS

Name of the conference: XXII REUNION BIENAL DE QUIMICA ORGANICA

Type of event: Conference

Geographical area: National

City of event: TARRAGONA, Catalonia, Spain

Date of event: 25/06/2008

End date: 28/06/2008

Organising entity: Universidad Rovira Virgili/RSEQ

Type of entity: University

FRANCISCO JAVIER IGLESIAS SIGÜENZA; ELENA DÍEZ MARTÍN; ABEL ROS LAO; ANTONIO MAGRIZ TASCON; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON.

"CARBENOS N-HETEROCICLICOS DE PLATA: APLICACION EN CICLOADICIONES 1,3-DIPOLARES ENANTIOSELECTIVAS". En: XXII REUNION BIENAL DE QUIMICA ORGANICA. pp. CO93 - CO93.

56 Title of the work: CARBENOS DE PLATA QUIRALES: CATALIZADORES EN CICLOADICIONES 1,3-DIPOLARES

Name of the conference: PRIMER SIMPOSIO IBEROAMERICANO DE QUÍMICA ORGÁNICA

Type of event: Conference

Geographical area: Non EU International

City of event: MAR DEL PLATA - BUENOS AIRES, Argentina

Date of event: 11/11/2007

End date: 16/11/2007

Organising entity: Sociedad Argentina de Investigación en Química Orgánica

Type of entity: Associations and Groups

FRANCISCO JAVIER IGLESIAS SIGÜENZA; ABEL ROS LAO; ANTONIO MAGRIZ TASCON; ELENA DÍEZ MARTÍN; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. "CARBENOS DE PLATA QUIRALES: CATALIZADORES EN CICLOADICIONES 1,3-DIPOLARES". En: PRIMER SIMPOSIO IBEROAMERICANO DE QUÍMICA ORGÁNICA. pp. SO-237 - SO-237.



- 57** **Title of the work:** CARBENOS DE PLATA QUIRALES: CATALIZADORES EN CICLOADICIONES 1,3-DIPOLARES
Name of the conference: REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA
Type of event: Conference **Geographical area:** National
City of event: TOLEDO, Castile-La Mancha, Spain
Date of event: 09/09/2007
End date: 14/09/2007
Organising entity: Universidad Castilla-La Mancha/RSEQ **Type of entity:** University
FRANCISCO JAVIER IGLESIAS SIGÜENZA; ABEL ROS LAO; ANTONIO MAGRIZ TASCON; ELENA DÍEZ MARTÍN; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. "CARBENOS DE PLATA QUIRALES: CATALIZADORES EN CICLOADICIONES 1,3-DIPOLARES". En: XXXI REUNIÓN BIENAL DE LA RSEQ. pp. 465 - 465.
- 58** **Title of the work:** SÍNTESIS, ESTRUCTURA Y PROPIEDADES DE COMPLEJOS DE NUEVOS TIPOS DE CARBENOS N-HETEROCÍCLICOS
Name of the conference: REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA
Type of event: Conference **Geographical area:** National
City of event: TOLEDO, Castile-La Mancha, Spain
Date of event: 09/09/2007
End date: 14/09/2007
Organising entity: Universidad Castilla-La Mancha/RSEQ
FRANCISCO JAVIER IGLESIAS SIGÜENZA; ELENA DÍEZ MARTÍN; MANUEL ALCARAZO VELASCO; ABEL ROS LAO; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. "SÍNTESIS, ESTRUCTURA Y PROPIEDADES DE COMPLEJOS DE NUEVOS TIPOS DE CARBENOS N-HETEROCÍCLICOS". En: XXXI REUNIÓN BIENAL DE LA RSEQ. pp. 441 - 441.
- 59** **Title of the work:** SÍNTESIS Y APLICACIONES DE LIGANDOS QUIRALES MIXTOS C/S BASADOS EN CARBENOS N-HETEROCÍCLICOS
Name of the conference: REUNIÓN BIENAL DE QUÍMICA ORGÁNICA
Type of event: Conference **Geographical area:** National
City of event: VALLADOLID, Spain
Date of event: 18/09/2006
End date: 20/09/2006
Organising entity: Universidad de Valladolid/RSEQ **Type of entity:** University
ABEL ROS LAO; DAVID MONGE FERNÁNDEZ; MANUEL ALCARAZO VELASCO; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. "SÍNTESIS Y APLICACIONES DE LIGANDOS QUIRALES MIXTOS C/S BASADOS EN CARBENOS N-HETEROCÍCLICOS". En: XXI REUNIÓN BIENAL DE QUÍMICA ORGÁNICA. pp. C-06 - C-06.
- 60** **Title of the work:** NEW TYPES OF CHIRAL N-HETEROCYCLIC CARBENE-SULFUR MIXED LIGANDS IN ASYMMETRIC CATALYSIS
Name of the conference: 16TH INTERNATIONAL CONFERENCE ON ORGANIC SYNTHESIS
Type of event: Conference **Geographical area:** Non EU International
City of event: MÉRIDA, Mexico
Date of event: 11/06/2006
End date: 15/06/2006
Organising entity: IUPAC **Type of entity:** Asociación Internacional
ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON; MANUEL ALCARAZO VELASCO; ABEL ROS LAO; STEPHEN JAMES ROSEBLADE -; DAVID MONGE FERNÁNDEZ. "NEW TYPES OF CHIRAL N-HETEROCYCLIC CARBENE-SULFUR MIXED LIGANDS IN ASYMMETRIC CATALYSIS". En: 16TH INTERNATIONAL CONFERENCE ON ORGANIC SYNTHESIS. pp. 233 - 233.



- 61** **Title of the work:** TRANSFER HYDROGENATION OF ALPHA-ALKYL(ARYL) KETIMINES: ENANTIOSELECTIVE SYNTHESIS OF CYCLOALKYL AMINES VIA DYNAMIC KINETIC RESOLUTION
Name of the conference: INTERNATIONAL SFB-SYMPOSIUM (9)
Type of event: Conference **Geographical area:** Non EU International
City of event: AACHEN, Germany
Date of event: 10/10/2005
End date: 11/10/2005
Organising entity: RWTH Aachen University
ABEL ROS LAO; ANTONIO MAGRIZ TASCON; Diectrich-,Hansjoerg; Ford-,Mark; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. "TRANSFER HYDROGENATION OF ALPHA-ALKYL(ARYL) KETIMINES: ENANTIOSELECTIVE SYNTHESIS OF CYCLOALKYL AMINES VIA DYNAMIC KINETIC RESOLUTION". En: 9. INTERNATIONAL SFB-SYMPOSIUM. pp. P130 - P130.
- 62** **Title of the work:** TRANSFER HYDROGENATION OF ALPHA-ALKYL(ARYL) KETIMINES: ENANTIOSELECTIVE SYNTHESIS OF CYCLOALKYL AMINES VIA DYNAMIC KINETIC RESOLUTION
Name of the conference: INTERNATIONAL SYMPOSIUM: SYNTHESIS IN ORGANIC CHEMISTRY
Type of event: Conference **Geographical area:** Non EU International
City of event: OXFORD, United Kingdom
Date of event: 18/07/2005
End date: 25/07/2005
Organising entity: University of Oxford/Royal Society of Chemistry
ABEL ROS LAO; ANTONIO MAGRIZ TASCON; Diectrich-,Hansjoerg; Ford-,Mark; ROSARIO FERNÁNDEZ FERNÁNDEZ; JOSE M^a LASSALETTA SIMON. "TRANSFER HYDROGENATION OF ALPHA-ALKYL(ARYL) KETIMINES: ENANTIOSELECTIVE SYNTHESIS OF CYCLOALKYL AMINES VIA DYNAMIC KINETIC RESOLUTION". En: 19TH INTERNATIONAL SYMPOSIUM: SYNTHESIS IN ORGANIC CHEMISTRY. pp. P020 - P020.
- 63** **Title of the work:** ENANTIOSELECTIVE SYNTHESIS OF ALPHA-AMINOACIDS AND 1,2-DIAMINES. ADDITION OF TMSCN TO N,N-DIALKYLHYDRAZONES
Name of the conference: 7TH INTERNATIONAL SYMPOSIUM ON CARBANION CHEMISTRY (7) (7.2004.ALICANTE)
Type of event: Conference **Geographical area:** Non EU International
City of event: ALICANTE, Valencian Community, Spain
Date of event: 07/07/2004
End date: 11/07/2004
Organising entity: Departamento Química **Type of entity:** University
Orgánica/Universidad de Alicante
ABEL ROS LAO; ROSARIO FERNÁNDEZ FERNÁNDEZ; ANTONIO MAGRIZ TASCON; JOSE M^a LASSALETTA SIMON. "ENANTIOSELECTIVE SYNTHESIS OF ALPHA-AMINOACIDS AND 1,2-DIAMINES. ADDITION OF TMSCN TO N,N-DIALKYLHYDRAZONES". En: 7TH INTERNATIONAL SYMPOSIUM ON CARBANION CHEMISTRY. pp. P-93 - P-93.
- 64** **Title of the work:** SÍNTESIS ENANTIOSELECTIVA DE ALPHA-AMINOÁCIDOS Y 1,2-DIAMINAS. ADICIÓN DE TMSCN A N,N-DIALQUILHIDRAZONAS.
Name of the conference: CENTENARIO DE LAS REALES SOCIEDADES DE FÍSICA Y QUÍMICA. XXIX REUNIÓN BIENAL DE FÍSICA () (.2003.MADRID)
Type of event: Conference **Geographical area:** National
City of event: MADRID, Community of Madrid, Spain
Date of event: 2003
Organising entity: Real Sociedad Española de **Type of entity:** RSEQ
Química



ABEL ROS LAO; JOSE M^a LASSALETTA SIMON; ANTONIO MAGRIZ TASCON; MANUEL ALCARAZO VELASCO; JOSE MANUEL LLERA FERNANDEZ; ROSARIO FERNÁNDEZ FERNÁNDEZ. "SÍNTESIS ENANTIOSELECTIVA DE ALPHA-AMINOÁCIDOS Y 1,2-DIAMINAS. ADICIÓN DE TMSCN A N,N-DIALQUILHIDRAZONAS.". En: CENTENARIO DE LAS REALES SOCIEDADES DE FÍSICA Y QUÍMICA. XXIX REUNIÓN BIENAL DE FÍSICA (AÑO: 2003, DIFUSIÓN: NACIONAL). pp. 133 - 133.

R&D management and participation in scientific committees

Organization of R&D activities

- 1** **Title of the activity:** 7th Spanish-Portuguese-Japanese Organic Chemistry Symposium
Type of activity: Reunión Científica **Geographical area:** Non EU International
City of event: Sevilla, Spain
Convening entity: Universidad de Sevilla **Type of entity:** University
City convening entity: Sevilla
Type of participation: Organiser
Nº assistants: 140
Start-End date: 23/06/2015 - 26/06/2015
- 2** **Title of the activity:** VIII Feria de la Ciencia 2010 "La biodiversidad es la vida, la biodiversidad es nuestra vida"
Type of activity: Divulgativa **Geographical area:** Regional
City of event: Sevilla, Spain
Convening entity: Instituto de Investigaciones Químicas **Type of entity:** University Research Institute
Type of participation: Organiser
Start-End date: 06/05/2010 - 08/05/2010

Other achievements

Stays in public or private R&D centres

Entity: UNIVERSITY OF BRISTOL **Type of entity:** University
Faculty, institute or centre: School of Chemistry
City of entity: BRISTOL, United Kingdom
Start-End date: 03/03/2008 - 02/03/2010 **Duration:** 730 days
Goals of the stay: Post-doctoral
Provable tasks: Estancia en UNIVERSITY OF BRISTOL - Posdoctoral

Obtained grants and scholarships

- 1** **Name of the grant:** Contrato JAE-Doc
Aims: Post-doctoral
Awarding entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Conferral date: 16/03/2012 **Duration:** 3 years
End date: 15/03/2015



Entity where activity was carried out: Instituto de Investigaciones Químicas

- 2** **Name of the grant:** Marie Curie Reintegration Grant
City awarding entity: Sevilla, Andalusia, Spain
Aims: Ayuda para creación de grupo de Investigación
Awarding entity: Unión Europea **Type of entity:** Unión Europea
Amount of the grant: 45.000 €
Conferral date: 01/05/2010 **Duration:** 3 years
End date: 30/04/2013
Entity where activity was carried out: Instituto de Investigaciones Químicas
- 3** **Name of the grant:** Contrato Postdoctoral Proyectos de Excelencia Junta de Andalucía
Aims: Post-doctoral
Awarding entity: Consejería de Innovación y Ciencia, Junta de Andalucía **Type of entity:** Public Research Body
Conferral date: 01/04/2010 **Duration:** 1 year - 11 months - 15 days
End date: 15/03/2012
Entity where activity was carried out: Instituto de Investigaciones Químicas
- 4** **Name of the grant:** Contrato Ramón y Cajal
Aims: Post-doctoral
Awarding entity: Ministerio de Economía y Competitividad
Conferral date: 16/03/2015
End date: 15/03/2010
Entity where activity was carried out: Universidad de Sevilla
Faculty, institute or centre: Facultad de Química
- 5** **Name of the grant:** Marie Curie IntraEuropean Fellowship
City awarding entity: Bristol, United Kingdom
Aims: Post-doctoral
Awarding entity: Unión Europea **Type of entity:** Unión Europea
Amount of the grant: 161.792,99 €
Conferral date: 03/03/2008 **Duration:** 2 years
End date: 02/03/2010
Entity where activity was carried out: School of Chemistry, University of Bristol
- 6** **Name of the grant:** Becario de Colaboración
Aims: Introducción a la Investigación
Awarding entity: Ministerio de Ciencia e Innovación. **Type of entity:** Ministerio Universidades
Conferral date: 02/10/2000
End date: 30/06/2001



Obtained accreditations/recognitions

- 1** **Description:** Colaborador Honorario del Departamento de Química Orgánica de la Universidad de Sevilla
Accrediting entity: Universidad de Sevilla **Type of entity:** University
Date of recognition: 2013
- 2** **Description:** Colaborador Honorario del Departamento de Química Orgánica de la Universidad de Sevilla
Accrediting entity: Universidad de Sevilla **Type of entity:** University
Date of recognition: 2012
- 3** **Description:** Acreditación para la figura de Contratado Doctor (Número PCD: 2011-2610)Or
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** Organismo Público
City accrediting entity: Spain
Date of recognition: 18/05/2011
- 4** **Description:** Colaborador Honorario del Departamento de Química Orgánica de la Universidad de Sevilla
Accrediting entity: Universidad de Sevilla **Type of entity:** University
Date of recognition: 2011
- 5** **Description:** Colaborador Honorario del Departamento de Química Orgánica de la Universidad de Sevilla
Accrediting entity: Universidad de Sevilla **Type of entity:** University
Date of recognition: 2010
- 6** **Description:** Acreditación para la figura de Ayudante Doctor (Número PAD:2009-2550)
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** Organismo público
City accrediting entity: Spain
Date of recognition: 23/07/2009
- 7** **Description:** Colaborador Honorario del Departamento de Química Orgánica de la Universidad de Sevilla
Accrediting entity: Universidad de Sevilla **Type of entity:** University
Date of recognition: 2009
- 8** **Description:** Colaborador Honorario del Departamento de Química Orgánica de la Universidad de Sevilla
Accrediting entity: Universidad de Sevilla **Type of entity:** University
Date of recognition: 2008
- 9** **Description:** Colaborador Honorario del Departamento de Química Orgánica de la Universidad de Sevilla
Accrediting entity: Universidad de Sevilla **Type of entity:** University
Date of recognition: 2007
- 10** **Description:** Colaborador Honorario del Departamento de Química Orgánica de la Universidad de Sevilla
Accrediting entity: Universidad de Sevilla **Type of entity:** University
Date of recognition: 2006