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Comisión Interministerial de Ciencia y  
Tecnología

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## Curriculum vitae

Nombre: Anton Vidal Ferran

Fecha: January 2021

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Family name: Vidal Ferran  
ID/Passport no: 39.858.368-N  
Nationality: Spanish

Date of birth: 06/12/1962

Forename: Anton

Gender: M

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### Present Professional Position

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Institution: University of Barcelona  
Faculty, School or Institute: Faculty of Chemistry  
Department: "Section of Inorganic Chemistry" in the "Department of Inorganic and Organic Chemistry"  
Address: Carrer Martí i Franquès 1-11. E-08028 Barcelona  
Country: Spain

Telephone (indicate prefix, number and extension): (+34) 93 403 91 35

Fax:

E-mail: anton.vidal@ub.edu

Field of study (UNESCO codes): 2306

Professional status: ICREA Research Professor Start date 01/09/2003  
Host Institution: Section of Inorganic Chemistry at 28/10/2019  
the University of Barcelona

Administrative status

Permanent Staff  Hired on contracts  Acting  Fellowship holder  
 Other (specify):

Full-time   
Part-time

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### Present Research Area

Brief summary (keywords)

Asymmetric Catalysis, Catalytic Ligands, Computational Chemistry, Supramolecular Chemistry, Molecular Recognition, Process Chemistry

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### Academic Background

Bachelor	Centre	Date
Chemical Engineering (Organic Chemistry)	CETS Institut Químic de Sarrià	July 1987
Graduated in Chemistry	Universitat de Barcelona	February 1995

Ph.D.	Centre	Date
PhD in Chemical Engineering (Organic Chemistry)	CETS Institut Químic de Sarrià	May 1992
PhD in Chemistry	Universitat de Barcelona	June 1996

## Past Scientific Experience

Position	R&D Centre	Institution	Date
Fellowship holder – Fundació J. Salañer (Predoctoral fellowship)		Chemical Institute of Sarrià ( <i>CETS Institut Químic de Sarrià, IQS</i> )	01/01/1989 – 31/12/1991
Research Fellow in the Program “Human Capital and Mobility” (EU)		University of Cambridge – Chemical Laboratory	01/01/1993 – 31/12/1994
Hired Researcher in the Program “Programa de Reincorporación para Doctores y Tecnólogos en el Extranjero”		University of Barcelona – Department of Organic Chemistry	01/01/1995– 31/10/1996 01/04/1997– 30/04/1998
Associate Professor (1st Type 8P)		University of Barcelona – Department of Organic Chemistry	01/05/1998 – 31/12/1998
Hired Researcher in the Program “Programa de Reincorporación para Doctores y Tecnólogos en el Extranjero”		University of Barcelona – Department of Organic Chemistry	01/01/1999 – 31/08/1999
Visiting Scientist	Bayer AG Central Research Division - Leverkusen		01/09/1999 – 31/12/2000
Head of Laboratory	Bayer AG Central Research Division - Leverkusen		01/01/2001 – 31/01/2002
Head of Laboratory	Research Division, “Fine Chemicals” Unit, Bayer Chemicals, Bayer AG - Leverkusen		01/02/2002 – 31/08/2003
ICREA Research Professor		Catalan Institution for Research and Advanced Studies (ICREA)	From 01/09/2003
Group Leader		Institute of Chemical Research of Catalonia (ICIQ)	From 15/09/2003 – 25/02/2020
Research Professor and PI at the University of Barcelona		Section of Inorganic Chemistry at the Department of Inorganic and Organic Chemistry of the University of Barcelona	From 28/10/2019 –

## Languages (N = Normal, G = Good, P = Perfectly)

Language	Speaking	Reading	Writing
English	P	P	P
German	P	P	P

## Participation in Research Projects

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Project Title: "Síntesis Asimétrica con Participación de Metales de Transición" (Asymmetric Synthesis with Participation of Transition Metals)  
Financial Entity: Comissió Interdepartamental de Recerca i Innovació Tecnològica de la Generalitat de Catalunya. Comisión Interministerial de Ciencia y Tecnología.  
Length From: 1994 To: 1996  
Project number: QFN93-4407  
Principal Researcher: Miquel A. Pericàs Brondo

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Project Title: "Estudio por RMN en Estado Sólido de Ligandos Quirales Anclados a un Soporte Polimérico" (Study by Solid State NMR of Chiral Ligands Anchored to a Polymeric Support)  
Financial Entity: Dirección General de Investigación Científica y Técnica (DGICYT)  
Length From: 1996 To: 1997  
Project number: HB1995-0030  
Principal Researcher: Miquel A. Pericàs Brondo and J.K.M. Sanders

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Project Title: "Preparación de Materiales, Auxiliares y Ligandos Quirales. Utilización en Síntesis Asimétrica y en Catálisis Enantioselectiva" (Preparation of Materials, Auxiliaries and Chiral Ligands. Use in Asymmetric Synthesis and Enantioselective Catalysis)  
Financial Entity: Dirección General de Investigación Científica y Técnica (DGICYT)  
Length From: 1997 To: 1999  
Project number: PB95-0265  
Principal Researcher: Miquel A. Pericàs Brondo

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Project Title: "Aproximaciones Modulares a la Catálisis Asimétrica Homogénea: Síntesis de Nuevos Ligandos y Evaluación de sus Propiedades Catalíticas en Procesos Enantioselectivos" (Modular Approaches to Homogeneous Asymmetric Catalysis. Synthesis of New Ligands and Evaluation of its Catalytic Properties in Enantioselective Processes)  
Financial Entity: Fundación Ramón Areces  
Length From: 2004 To: 2008  
Project number:  
Principal Researcher: Anton Vidal Ferran

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Project Title: "Ligandos Modulares para la Catálisis Enantioselectiva: Diseño, Síntesis y Evaluación" (Modular Ligands for Enantioselective Catalysis: Design, Synthesis and Evaluation)  
Financial Entity: Ministerio de Educación y Ciencia. Dirección general de Investigación  
Length From: 2006 To: 2008  
Project number: CTQ2005-02193/BQU  
Principal Researcher: Miquel A. Pericàs Brondo

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Project Title: "Grup de Recerca en Sistemes Catalítics Modulars (SICAM)" (Research Group in Modular Catalytic Systems)  
Financial Entity: AGAUR  
Length From: 2006 To: 2008  
Project number: 2005SGR225  
Principal Researcher: Miquel A. Pericàs Brondo

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Project Title: "Diseño de Catalizadores para una Química Sostenible: Una Aproximación Integrada" (INTECAT)  
(Design of Catalysts for a Sustainable Chemistry: an Integrated Approach)  
Financial Entity: Ministerio de Educación y Ciencia. (Program: Consolider Ingenio 2010)  
Length From: 2006 To: 2010  
Project number: CDS2006-0003  
Principal Researcher: Anton Vidal Ferran  
Project Director: Miquel A. Pericàs Brondo

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Project Title: "Supracat Conference"  
Financial Entity: Ministerio de Ciencia e Innovación. Secretaría de Estado de Investigación  
Length From: 07/03/2008 To: 30/06/2008  
Project number: CTQ2007-30910-E  
Principal Researcher: Anton Vidal Ferran

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Project Title: "Aproximaciones Modulares, Covalente y Supramolecular a la Catálisis Asimétrica" (Modular, Covalent and Supramolecular Approaches to Asymmetric Catalysis)  
Financial Entity: Ministerio de Ciencia e Innovación. Subdirección general de Proyectos de Investigación  
Program: Subprograma de Proyectos de Investigación Fundamental no Orientada  
Length From: 2009 To: 2011  
Project number: CTQ2008-00950/BQU  
Principal Researcher: Anton Vidal Ferran

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Project Title: "Supramolecular Modular Approaches to Asymmetric Catalysis: Synthesis of Ligands by a Metal-Ligand Mediated Assembly Process"  
Financial Entity: European Commission – Research Executive Agency.  
Program: Marie Curie Actions – International Fellowships (Marie Curie Incoming Fellowships)  
Length From: 2009 To: 2011  
Project number: 219537  
Principal Researcher: Anton Vidal Ferran

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Project Title: "Grup de Recerca en Sistemes Catalítics Modulars (SICAM)" (Research Group in Modular Catalytic Systems)  
Financial Entity: AGAUR  
Length From: 2009 To: 2013  
Project number: 2009SGR623  
Principal Researcher: Miquel A. Pericàs Brondo

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Project Title: "Modular Covalent and Modular Supramolecular Approaches to Asymmetric Catalysis for Transformations of Interest"  
Financial Entity: Ministerio de Ciencia e Innovación. Subdirección general de Proyectos de Investigación.  
Program: Subprograma de Proyectos de Investigación Fundamental no Orientada  
Length From: 2012 To: 2014  
Project number: CTQ2011-28512  
Principal Researcher: Anton Vidal Ferran

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Project Title: "Towards Valuable Optically Pure Compounds by Hydrogenative Desymmetrization of Achiral or Meso-Compounds using High-Throughput Catalyst Screening Techniques"  
Financial Entity: CELLEX-ICIQ  
Program: Cellex-ICIQ Post-doctoral Program on High-Throughput Experimentation for the Discovery and Optimization of Catalytic Processes  
Length From: 2014 To: 2016  
Project number:  
Principal Researcher: Anton Vidal Ferran

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Project Title: "Grup de Recerca en Modulació i Regulació a Catàlisi (MORECAT)" (Research Group in Modulation and Regulation in Catalysis)  
Financial Entity: AGAUR  
Length From: 2014 To: 2016  
Project number: 2014SGR618  
Principal Researcher: Anton Vidal Ferran

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Project Title: "Modularidad y Regulación Distal en Sistemas Catalíticos como Estrategias Eficientes en Síntesis Estereoselectiva. Aplicación a la síntesis de Compuestos con Interés Biológico" (Modularity and Distal Regulation in Catalytic Systems as Strategies for Efficient Stereoselective Syntheses. Application to the synthesis of Compounds with Biological Interest)  
Financial Entity: Ministerio de Economía y Competitividad. Subdirección General de Proyectos de Investigación  
Program: Programa Estatal de Fomento de la Investigación Científica y Técnica de Excelencia. Subprograma Estatal de Generación del Conocimiento  
Length From: 2015 To: 2017  
Project number: CTQ2014-60256-P  
Principal Researcher: Anton Vidal Ferran

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Project Title: "Design and Development of New Small Organic Molecules as Hole Transport Materials for Solar Cells  
Financial Entity: H2020 COFUND Program – European Commission"  
Program: ICIQ International Post-doctoral Mobility Program  
Length From: 2015 To: 2018  
Project number: 291787-ICIQ-IPMP  
Principal Researcher: Anton Vidal Ferran, Pablo Ballester, Emilio Palomares

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Project Title: "An EPSRC Grand Challenge Network for Kinetic Studies on Supramolecularly Regulated Hydroformylation Catalysts"  
Financial Entity: Engineering and Physical Sciences Research Council (EPSRC)  
Program:  
Length From: 12/08/2017 To: 02/09/2017  
Project number: DIAL-A-MOLECULE  
Principal Researcher: Anton Vidal Ferran, Jordi Burés

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Project Title: "Diseño de Herramientas Catalíticas Enantioselectivas: Aplicación a la Preparación de Moléculas Bioactivas y a la Valorización de Materias Primas Derivadas del Petróleo" (Design of Efficient Asymmetric Synthetic Catalytic Tools: Towards Bioactive Molecules and Valorized Petrochemical Feedstocks)  
Financial Entity: Ministerio de Economía, Industria y Competitividad. Secretaría de Estado de Investigación, Desarrollo e Innovación  
Program: Programa Estatal de Fomento de la Investigación Científica y Técnica de Excelencia. Subprograma Estatal de Generación del Conocimiento  
Length From: 2018 To: 2020  
Project number: CTQ2017-89814-P  
Principal Researcher: Anton Vidal Ferran

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Project Title: "Grup de Recerca en Modulació i Regulació a Catàlisi (MORECAT)" (Research Group in Modulation and Regulation in Catalysis)  
Financial Entity: AGAUR  
Length From: 2017 To: 2019  
Project number: 2017SGR957  
Principal Researcher: Anton Vidal Ferran

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## Publications

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Key: B = full book, BC = book chapter, A= article, R= review, E= editor

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**Authors (In Order of Authorship):** P. Victory, J.I. Borrell, C. Seoane, J.L. Soto and A. Vidal-Ferran  
**Title:** "Reaction of Chalcone with Propanedinitrile: A Controversial Chemical Process"  
**Journal/Book Title:** Tetrahedron Lett. Key: A  
**Volume:** 32 **Pages, initial:** 5375 **final:** 5378 **Year:** 1991  
**Place of publication:** Great Britain  
**Order:** 001

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**Authors (In Order of Authorship):** A. Alvarez-Larena, J.F. Piniella, J.I. Borrell, A. Vidal-Ferran, P. Victory, G. Germain  
**Title:** "Structure of 2-Amino-5-methylisophthalonitrile"  
**Journal/Book Title:** Acta Crystallogr., Sect. C Key: A  
**Volume:** C48 **Pages, initial:** 208 **final:** 209 **Year:** 1992  
**Place of publication:** Great Britain  
**Order:** 002

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**Authors (In Order of Authorship):** P. Victory, A. Alvarez-Larena, X. Batllori, J.I. Borrell, A. Vidal-Ferran, J.F. Piniella  
**Title:** "2,3,6-Trioxypentafulvenes, 3(1): Reactivity of 2,3,6- Trioxypentafulvenes in front of Electrophiles"  
**Journal/Book Title:** An. Quim. Key: A  
**Volume:** 88 **Pages, initial:** 499 **final:** 507 **Year:** 1992  
**Place of publication:** Spain  
**Order:** 003

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**Authors (In Order of Authorship):** P. Victory, J.I. Borrell and A. Vidal-Ferran  
**Title:** "A Simple Synthesis of 2-Methoxy-pyridine-3-carbonitriles"  
**Journal/Book Title:** Heterocycles Key: A  
**Volume:** 36 **Pages, initial:** 769 **final:** 776 **Year:** 1993  
**Place of publication:** Japan  
**Order:** 004

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**Authors (In Order of Authorship):** P. Victory, J.I. Borrell, J. Cirujeda and A. Vidal-Ferran  
**Title:** "Synthesis of 2-Cyanamino-4,6-diphenylpyridine-3-carbonitrile"  
**Journal/Book Title:** Heterocycles Key: A  
**Volume:** 36 **Pages, initial:** 777 **final:** 783 **Year:** 1993  
**Place of publication:** Japan  
**Order:** 005

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**Authors (In Order of Authorship):** P. Victory, J.I. Borrell, P. Castejón, B. Martínez-Teipel, A. Vidal-Ferran  
**Title:** "Direct Substitution of a Methoxy Group by the Bromide Anion in Pyridine-3-carbonitriles: Synthesis of 2-Bromopyridine-3-carbonitriles from Enones or Enals in Two Steps"  
**Journal/Book Title:** An. Quim. Key: A  
**Volume:** 89 **Pages, initial:** 625 **final:** 628 **Year:** 1993  
**Place of publication:** Spain  
**Order:** 006

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**Authors (In Order of Authorship):** M. Pallas, A. Jimenez, P. Victory, J.I. Borrell, A. Vidal-Ferran, E. Escubedo, J. Camarasa  
**Title:** "Chemical Synthesis of New Pyridine Derivatives Acting as Inhibitors of Phosphodiesterase"  
**Journal/Book Title:** Pharm. Pharmacol. Lett. Key: A  
**Volume:** 3 **Pages, initial:** 36 **final:** 39 **Year:** 1993  
**Place of publication:** Germany  
**Order:** 007

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**Authors (In Order of Authorship):** P. Victory, J.I. Borrell, A. Vidal-Ferran, E. Montenegro, M.L. Jimeno  
**Title:** "Synthesis of 4-Amino-8-cyanoquinazolines from Enones and Enals in Two Steps"  
**Journal/Book Title:** Heterocycles Key: A  
**Volume:** 36 **Pages, initial:** 2273 **final:** 2280 **Year:** 1993  
**Place of publication:** Japan  
**Order:** 008

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**Authors (In Order of Authorship):** A. Alvarez-Larena, J.F. Piniella, P. Victory, J.I. Borrell, A. Vidal-Ferran  
**Title:** "Crystal Structure of 3-Amino-1-methyl-4,6-diphenylpyrazolo[3,4-*b*]pyridine, (C<sub>6</sub>H<sub>5</sub>)<sub>2</sub> (CH<sub>3</sub>) (NH<sub>2</sub>)"  
**Journal/Book Title:** Z. Kristallogr. Key: A  
**Volume:** 209 **Pages, initial:** 773 **final:** 774 **Year:** 1994  
**Place of publication:** Germany  
**Order:** 009

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**Authors (In Order of Authorship):** A. Vidal-Ferran, C. Müller, J.K.M. Sanders  
**Title:** "A Convergent Approach to Unsymmetrical Porphyrin Oligomers"  
**Journal/Book Title:** J. Chem. Soc., Chem. Commun. Key: A  
**Volume:** **Pages, initial:** 2657 **final:** 2658 **Year:** 1994  
**Place of publication:** Great Britain  
**Order:** 010

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**Authors (In Order of Authorship):** P. Victory, A. Alvarez-Larena, G. Germain, R. Kessels, J.F. Piniella, A. Vidal-Ferran  
**Title:** "A Non-Obvious Reaction Pathway in the Formation of 2-Aminobenzene-1,3-dicarbonitriles from  $\alpha,\beta$ -Unsaturated Ketones or Aldehydes"  
**Journal/Book Title:** Tetrahedron Key: A  
**Volume:** 51 **Pages, initial:** 235 **final:** 242 **Year:** 1995  
**Place of publication:** Great Britain  
**Order:** 011

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**Authors (In Order of Authorship):** H.L. Anderson, C.J. Walter, A. Vidal-Ferran, R.A. Hay, P.A. Lowden, J.K.M. Sanders  
**Title:** "Octatetrayne-linked Porphyrins: 'Stretched' Cyclic Dimers and Trimers with very Spacious Cavities"  
**Journal/Book Title:** J. Chem. Soc., Perkin Trans. 1 Key: A  
**Volume:** **Pages, initial:** 2275 **final:** 2279 **Year:** 1995  
**Place of publication:** Great Britain  
**Order:** 012

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**Authors (In Order of Authorship):** P. Victory, J. Cirujeda, A. Vidal-Ferran  
**Title:** "Two Step Synthesis of Pyrido[2,3-*d*]pyrimidines from Acyclic Precursors. Cyclization of 2-Cyanamino-4,6-diphenylpyridine-3-carbonitrile by Hydrogen Halides"  
**Journal/Book Title:** Tetrahedron Key: A  
**Volume:** 51 **Pages, initial:** 10253 **final:** 10258 **Year:** 1995  
**Place of publication:** Great Britain  
**Order:** 013

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**Authors (In Order of Authorship):** A. Vidal-Ferran, C.M. Mueller, J.K.M. Sanders  
**Title:** "A Convergent Approach to Unsymmetrical Porphyrin Oligomers" - Corrigendum  
**Journal/Book Title:** Chem. Commun. (Cambridge) Key: A  
**Volume:** 15 **Pages, initial:** 1849 **final:** 1850 **Year:** 1996  
**Place of publication:** Great Britain  
**Order:** 014

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**Authors (In Order of Authorship):** A. Vidal-Ferran, Z. Clyde-Watson, N. Bampos, J.K.M. Sanders  
**Title:** "Ethyne-linked Cyclic Porphyrin Oligomers: Synthesis and Binding Properties"  
**Journal/Book Title:** J. Org. Chem. Key: A  
**Volume:** 62 **Pages, initial:** 240 **final:** 241 **Year:** 1997  
**Place of publication:** USA  
**Order:** 015

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**Authors (In Order of Authorship):** V. Marvaud, A. Vidal-Ferran, S. Webb, J.K.M. Sanders  
**Title:** "Stereospecific Templated Synthesis of a Tris-Ruthenium Butadiyne- Linked Cyclic Porphyrin Trimer"  
**Journal/Book Title:** J. Chem. Soc., Dalton Trans. Key: A  
**Volume:** **Pages, initial:** 985 **final:** 990 **Year:** 1997  
**Place of publication:** Great Britain  
**Order:** 016

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**Authors (In Order of Authorship):** Ll. Solà, A. Vidal-Ferran, A. Moyano, M.A. Pericàs, A. Riera  
**Title:** "New indane derived aminoalcohols as chiral ligands for the catalytic enantioselective addition of diethylzinc to aldehydes"  
**Journal/Book Title:** Tetrahedron: Asymmetry Key: A  
**Volume:** 8 **Pages, initial:** 1559 **final:** 1568 **Year:** 1997  
**Place of publication:** Great Britain  
**Order:** 017

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**Authors (In Order of Authorship):** Ll. Solà, A. Vidal-Ferran, A. Moyano, M.A. Pericàs, A. Riera  
**Title:** "New indane derived aminoalcohols as chiral ligands for the catalytic enantioselective addition of diethylzinc to aldehydes" - Corrigendum  
**Journal/Book Title:** Tetrahedron: Asymmetry Key: A  
**Volume:** 8 **Pages, initial:** 3985 **final:** 3985 **Year:** 1997  
**Place of publication:** Great Britain  
**Order:** 018

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**Authors (In Order of Authorship):** A. Vidal-Ferran, A. Moyano, M.A. Pericàs, A. Riera  
**Title:** "Synthesis of a Family of Fine-Tunable New Chiral Ligands for Catalytic Asymmetric Synthesis. Ligand Optimization through the Enantioselective Addition of Diethylzinc to Aldehydes"  
**Journal/Book Title:** J. Org. Chem. Key: A  
**Volume:** 62 **Pages, initial:** 4970 **final:** 4982 **Year:** 1997  
**Place of publication:** USA  
**Order:** 019

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**Authors (In Order of Authorship):** E. Medina, A. Vidal-Ferran, A. Moyano, M.A. Pericàs, A. Riera  
**Title:** "Enantioselective Synthesis of *N*-Boc-1-Naphthylglycine"  
**Journal/Book Title:** Tetrahedron: Asymmetry Key: A  
**Volume:** 8 **Pages, initial:** 1581 **final:** 1586 **Year:** 1997  
**Place of publication:** Great Britain  
**Order:** 020

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**Authors (In Order of Authorship):** A. Vidal-Ferran, A. Moyano, M.A. Pericàs, A. Riera  
**Title:** "Computer Assisted, Mechanism Directed Design of a New Ligand for the Highly Enantioselective Catalytic Addition of Diethylzinc to Aldehydes"  
**Journal/Book Title:** Tetrahedron Lett. Key: A  
**Volume:** 38 **Pages, initial:** 8773 **final:** 8776 **Year:** 1997  
**Place of publication:** Great Britain  
**Order:** 021

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**Authors (In Order of Authorship):** A. Vidal-Ferran, N. Bampos, J.K.M. Sanders  
**Title:** "Stepwise Approach to Bimetallic Porphyrin Hosts: Spatially Enforced Coordination of a Ni(II) Porphyrin"  
**Journal/Book Title:** Inorg. Chem. Key: A  
**Volume:** 36 **Pages, initial:** 6117 **final:** 6126 **Year:** 1997  
**Place of publication:** USA  
**Order:** 022

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**Authors (In Order of Authorship):** Z. Clyde-Watson, A. Vidal-Ferran, L.J. Twyman, C.J. Walter, D.W.J. McCallien, S. Fanni, N. Bampos, R.S. Wylie, J.K.M. Sanders  
**Title:** "Reversing the Stereochemistry of a Diels-Alder Reaction: Use of Metalloporphyrin Oligomers to Control Transition State Stability"  
**Journal/Book Title:** New. J. Chem. Key: A  
**Volume:** **Pages, initial:** 493 **final:** 502 **Year:** 1998  
**Place of publication:** Great Britain  
**Order:** 023

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**Authors (In Order of Authorship):** N. Bampos, Michèle R. Prinsep, Heyong He, A. Vidal-Ferran, A. Bashall, M. McPartlin, H. Powell, J.K.M. Sanders  
**Title:** "<sup>13</sup>C CPMAS NMR Spectroscopy as a Probe for Porphyrin-Porphyrin and Host-Guest Interactions in the Solid State"  
**Journal/Book Title:** J. Chem. Soc., Perkin Trans. 2 Key: A  
**Volume:** **Pages, initial:** 715 **final:** 723 **Year:** 1998  
**Place of publication:** Great Britain  
**Order:** 024

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**Authors (In Order of Authorship):** A. Vidal-Ferran, N. Bampos, A. Moyano, M.A. Pericàs, A. Riera, J.K.M. Sanders  
**Title:** "High Catalytic Activity of Chiral Amino Alcohol Ligands Anchored to Polystyrene Resins"  
**Journal/Book Title:** J. Org. Chem. Key: A  
**Volume:** 63 **Pages, initial:** 6309 **final:** 6318 **Year:** 1998  
**Place of publication:** USA  
**Order:** 025

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**Authors (In Order of Authorship):** Ll. Solà, K.S. Reddy, A. Vidal-Ferran, A. Moyano, M.A. Pericàs, A. Riera, A. Alvarez-Larena, J. Piniella  
**Title:** "A Superior, Readily Available Enantiopure Ligand for the Catalytic Enantioselective Addition of Diethylzinc to  $\alpha$ -Substituted Aldehydes"  
**Journal/Book Title:** J. Org. Chem. Key: A  
**Volume:** 63 **Pages, initial:** 7078 **final:** 7082 **Year:** 1998  
**Place of publication:** USA  
**Order:** 026

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**Authors (In Order of Authorship):** N. Bampos, Z. Clyde-Watson, J.C. Hawley, C.C. Mak, A. Vidal-Ferran, S.J. Webb, J.K.M. Sanders  
**Title:** "NMR Studies of Molecular Recognition by Metalloporphyrins"  
**Journal/Book Title:** NMR in Supramolecular Chemistry – NATO ASI Series, Series C: Mathematical and Physical Sciences  
**ISSN:** 0258-2023 Key: A  
**Volume:** 526 **Pages, initial:** 37 **final:** 44 **Year:** 1999  
**Editorial (book):** Kluwer Academic Publishers  
**Place of publication:** Holland  
**Order:** 027

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Authors (In Order of Authorship): C. Jimeno, A. Vidal-Ferran, A. Moyano, M. Pericàs, A. Riera  
Title: "The Dual-Catalyzed (Amino Alcohol/Lewis Acid) Enantioselective Addition of Diethylzinc to *N*-Diphenylphosphinoyl Imines"  
Journal/Book Title: Tetrahedron Lett. Key: A  
Volume: 40      Pages, initial: 777      final: 780      Year: 1999  
Place of publication: Great Britain  
Order: 028

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Authors (In Order of Authorship): C. Puigjaner, A. Vidal-Ferran, A. Moyano, M.A. Pericas, A. Riera  
Title: "A New Family of Modular Chiral Ligands for the Catalytic Enantioselective Reduction of Prochiral Ketones"  
Journal/Book Title: J. Org. Chem. Key: A  
Volume: 64      Pages, initial: 7902      final: 7911      Year: 1999  
Place of publication: USA  
Order: 029

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Authors (In Order of Authorship): N. Bampos, A. Vidal-Ferran  
Title: "Understanding NMR Multiplet Structure with WINDNMR"  
Journal/Book Title: J. Chem. Educ. Key: A  
Volume: 77      Pages, initial: 130      final: 133      Year: 2000  
Place of publication: USA  
Order: 030

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Authors (In Order of Authorship): M. A. Pericàs, C. Puigjaner, A. Riera, A. Vidal-Ferran, M. Gómez, F. Jiménez, G. Muller, M. Rocamora  
Title: "Modular Bis(oxazoline) Ligands for Palladium Catalyzed Allylic Alkylation. Unprecedented Conformational Behaviour of a Bis(oxazoline) Palladium  $\eta^3$ -1,3-Diphenylallyl Complex"  
Journal/Book Title: Chem. Eur. J. Key: A  
Volume: 18      Pages, initial: 4164      final: 4178      Year: 2002  
Place of publication: USA  
Order: 031

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Authors (In Order of Authorship): M. Fontes, X. Verdaguer, Ll. Solà, A. Vidal-Ferran, K. Subba Reddy, A. Riera, M.A. Pericàs  
Title: "Addition of Diethylzinc to Dicobalt Hexacarbonyl Complexes of  $\alpha,\beta$ -Acetylenic Aldehydes with Virtually Complete Enantioselectivity. A Formal Synthesis of (+)-Incrustoprin"  
Journal/Book Title: Org. Lett. Key: A  
Volume: 14      Pages, initial: 2381      final: 2383      Year: 2002  
Place of publication: USA  
Order: 032

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Authors (In Order of Authorship): G. Islas-González, C. Puigjaner, A. Vidal-Ferran, A. Moyano, A. Riera, M.A. Pericàs  
Title: "Boron Trifluoride-induced Reactions of Phenylglycidyl Ethers: A Convenient Synthesis of Enantiopure, Stereodefined Fluorohydrins"  
Journal/Book Title: Tetrahedron Lett. Key: A  
Volume: 45      Pages, initial: 6337      final: 6341      Year: 2004  
Place of publication: Great Britain  
Order: 033

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**Authors (In Order of Authorship):** M.A. Pericàs, C. Jimeno, A. Vidal-Ferran  
**Title:** "Catálisis Enantioselectiva"  
**Journal/Book Title:** "Química Sostenible – Desarrollo de Nuevos Procesos Químicos con Bajo Impacto Ambiental"  
**Key:** BC  
**Volume:** 45      **Pages, initial:** 98      **final:** 106      **Year:** 2004  
**Place of publication:** Spain  
**Order:** 034

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**Authors (In Order of Authorship):** S. Rodríguez-Esrich, D. Popa, C. Jimeno, A. Vidal-Ferran, M.A. Pericàs  
**Title:** "(S)-2-[(R)-Fluoro(phenyl)methyl] oxirane: a general reagent for determining the ee of  $\alpha$ -chiral amines"  
**Journal/Book Title:** Org. Lett.      **Key:** A  
**Volume:** 7      **Pages, initial:** 3829      **final:** 3832      **Year:** 2005  
**Place of publication:** USA  
**Order:** 035

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**Authors (In Order of Authorship):** N. Nieto, P. Molas, J. Benet-Buchholz, A. Vidal-Ferran  
**Title:** "Practical Synthesis of the Shi's Diester Fructose Derivative for Catalytic Asymmetric Epoxidation of Alkenes"  
**Journal/Book Title:** J. Org. Chem.      **Key:** A  
**Volume:** 70      **Pages, initial:** 10143      **final:** 10146      **Year:** 2005  
**Place of publication:** USA  
**Order:** 036

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**Authors (In Order of Authorship):** C. Jimeno, A. Vidal-Ferran, M.A. Pericàs  
**Title:** "Ligand Anatomy: Probing Remote Substituent Effects in Asymmetric Catalysis through NMR and Kinetic Analysis"  
**Journal/Book Title:** Org. Lett.      **Key:** A  
**Volume:** 8      **Pages, initial:** 3895      **final:** 3898      **Year:** 2006  
**Place of publication:** USA  
**Order:** 037

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**Authors (In Order of Authorship):** S. Tatay, S.A. Haque, B. O'Regan, J.R. Durrant, W.J.H. Verhess, J.M. Kroon, A. Vidal-Ferran, P. Gaviña, E. Palomares  
**Title:** "Kinetic Competition in Liquid Electrolyte and Solid-State Cyanine Dye Sensitized Solar Cells"  
**Journal/Book Title:** J. Mater. Chem.      **Key:** A  
**Volume:** 17      **Pages, initial:** 3037      **final:** 3044      **Year:** 2007  
**Place of publication:** Great Britain  
**Order:** 038

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**Authors (In Order of Authorship):** D. Popa, C. Puigjaner, M. Gómez, J. Benet-Buchholz, A. Vidal-Ferran, M.A. Pericàs  
**Title:** "Phosphinooxazolines Derived from 3-Amino-1,2-diols: Highly Efficient Modular P-N Ligands"  
**Journal/Book Title:** Adv. Synth. Catal.      **Key:** A  
**Volume:** 349      **Pages, initial:** 2265      **final:** 2278      **Year:** 2007  
**Place of publication:** Germany  
**Order:** 039

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**Authors (In Order of Authorship):** A. Reynal, A. Forneli, E. Martínez-Ferrero, A. Sánchez-Díaz, A. Vidal-Ferran, E. Palomares  
**Title:** "A Phenanthroline Heteroleptic Ruthenium Complex and its Application to Dye-Sensitized Solar Cells"  
**Journal/Book Title:** Eur. J. Inorg. Chem.      **Key:** A  
**Volume:**      **Pages, initial:** 1955      **final:** 1958      **Year:** 2008  
**Place of publication:** Germany  
**Order:** 040

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**Authors (In Order of Authorship):** N. Nieto, I.J. Munslow, J. Barr, J. Benet-Buchholz, A. Vidal-Ferran  
**Title:** "Dioxirane Mediated Asymmetric Epoxidations: Stereochemical Studies via Isotopic Labeling"  
**Journal/Book Title:** Org. Biomol. Chem. Key: A  
**Volume:** 6 **Pages, initial:** 2276 **final:** 2281 **Year:** 2008  
**Place of publication:** Great Britain  
**Order:** 041

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**Authors (In Order of Authorship):** P. Ballester, A. Vidal-Ferran  
**Title:** "Introduction to Supramolecular Catalysis"  
**Journal/Book Title:** Supramolecular Catalysis Key: BC  
**ISBN:** 978-3-527-32191-9 **Pages, initial:** 1 **final:** 27 **Year:** 2008  
**Editorial (book):** Wiley-VCH  
**Place of publication:** Germany  
**Order:** 042

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**Authors (In Order of Authorship):** H. Fernández-Pérez, M.A. Pericàs, A. Vidal-Ferran  
**Title:** "Highly Modular P-O-P Ligands for Asymmetric Hydrogenation"  
**Journal/Book Title:** Adv. Synth. Catal. Key: A  
**Volume:** 350 **Pages, initial:** 1984 **final:** 1990 **Year:** 2008  
**Place of publication:** Germany  
**Highlighted in Synfacts 2008, (12), 1310**  
**Order:** 043

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**Authors (In Order of Authorship):** S. Rodríguez-Escrich, K. Subba Reddy, C. Jimeno, G. Colet, C. Rodríguez-Escrich, L. Solà, A. Vidal-Ferran, M.A. Pericàs  
**Title:** "Structural Optimization of Enantiopure 2-Cycloalkylamino-2-aryl-1,1-diphenylethanol as Catalytic Ligands for Enantioselective Additions to Aldehydes"  
**Journal/Book Title:** J. Org. Chem. Key: A  
**Volume:** 73 **Pages, initial:** 5340 **final:** 5353 **Year:** 2008  
**Place of publication:** USA  
**Order:** 044

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**Authors (In Order of Authorship):** N. Nieto, I.J. Munslow, H. Fernández-Pérez, A. Vidal-Ferran  
**Title:** "Exploring Substrate Scope of Shi-Type Epoxidations"  
**Journal/Book Title:** Synlett Key: A  
**Volume:** 18 **Pages, initial:** 2856 **final:** 2858 **Year:** 2008  
**Place of publication:** Germany  
**Order:** 045

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**Authors (In Order of Authorship):** A. Reynal, A. Forneli, E. Martínez-Ferrero, A. Sánchez-Díaz, A. Vidal-Ferran, B.C. O'Regan, E. Palomares  
**Title:** "Interfacial Charge Recombination Between e<sup>-</sup>-TiO<sub>2</sub> and the I<sup>-</sup>/I<sub>3</sub><sup>-</sup> Electrolyte in Ruthenium Heteroleptic Complexes: Dye Molecular Structure-Open Circuit Voltage Relationship"  
**Journal/Book Title:** J. Am. Chem. Soc. Key: A  
**Volume:** 130 **Pages, initial:** 13558 **final:** 13567 **Year:** 2008  
**Place of publication:** USA  
**Order:** 046

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**Authors (In Order of Authorship):** J. Etxebarria, A. Vidal-Ferran, P. Ballester  
**Title:** "The Effect of Complex Stoichiometry in Supramolecular Chirality Transfer to Zinc Bisporphyrin Systems"  
**Journal/Book Title:** Chem. Commun. **Key: A**  
**Volume:**           **Pages, initial:** 5939           **final:** 5941           **Year:** 2008  
**Place of publication:** Great Britain  
**Order:** 047

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**Authors (In Order of Authorship):** A. Reynal, J. Albero, A. Vidal-Ferran, E. Palomares  
**Title:** "Diastereoselectivity and Molecular Recognition of Mercury(II) Ions"  
**Journal/Book Title:** Inorg. Chem. Commun. **Key: A**  
**Volume:** 12           **Pages, initial:** 131           **final:** 134           **Year:** 2009  
**Place of publication:** Great Britain  
**Order:** 048

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**Authors (In Order of Authorship):** D. Popa, R. Marcos, S. Sayalero, A. Vidal-Ferran, M.A. Pericàs  
**Title:** "Towards Continuous Flow, Highly Enantioselective Allylic Amination: Ligand Design, Optimization and Supporting"  
**Journal/Book Title:** Adv. Synth. Catal. **Key: A**  
**Volume:** 351           **Pages, initial:** 1539           **final:** 1556           **Year:** 2009  
**Place of publication:** Germany  
**Order:** 049

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**Authors (In Order of Authorship):** S.M.A. Donald, A. Vidal-Ferran, F. Maseras  
**Title:** "A DFT/MM Analysis of the Effect of Ligand Substituents on Asymmetric Hydrogenation Catalyzed by Rhodium Complexes with Phosphine-Phosphinite Ligands"  
**Journal/Book Title:** Can. J. Chem. **Key: A**  
**Volume:** 87           **Pages, initial:** 1273           **final:** 1279           **Year:** 2009  
**Place of publication:** Canada  
**Order:** 050

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**Authors (In Order of Authorship):** J. Etxebarria, H. Degenbeck, A.-S. Felten, S. Serres, N. Nieto, A. Vidal-Ferran  
**Title:** "Supramolecular-Directed Chiral Induction in Biaryl Derivatives"  
**Journal/Book Title:** J. Org. Chem. **Key: A**  
**Volume:** 74           **Pages, initial:** 8794           **final:** 8797           **Year:** 2009  
**Place of publication:** USA  
**Order:** 051

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**Authors (In Order of Authorship):** H. Fernández-Pérez, S.M.A. Donald, I.J. Munslow, J. Benet-Buchholz, F. Maseras, A. Vidal-Ferran  
**Title:** "Highly Modular P-OP Ligands for Asymmetric Hydrogenation: Synthesis, Catalytic Activity and Mechanism"  
**Journal/Book Title:** Chem. Eur. J. **Key: A**  
**Volume:** 16           **Pages, initial:** 6495           **final:** 6508           **Year:** 2010  
**Place of publication:** Germany  
Highlighted in Synfacts 2010, (8), 905  
**Order:** 052

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**Authors (In Order of Authorship):** A. Reynal, J. Etxebarria, N. Nieto, S. Serres, E. Palomares, A. Vidal-Ferran  
**Title:** "A Bipyridine-Based "Naked-Eye" Fluorimetric Cu<sup>2+</sup> Chemosensor"  
**Journal/Book Title:** Eur. J. Inorg. Chem. **Key: A**  
**Volume:**           **Pages, initial:** 1360           **final:** 1365           **Year:** 2010  
**Place of publication:** Germany  
**Order:** 053

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**Authors (In Order of Authorship):** H. Fernández-Pérez, P. Etayo, J. L. Núñez-Rico, A. Vidal-Ferran  
**Title:** "P-OP-mediated Asymmetric Hydrogenation of Functionalised Alkenes"  
**Journal/Book Title:** Chim. Oggi – Chem. Today **Key: A**  
**Volume:** 28           **Pages, initial:** XXVI           **final:** XXVIII           **Year:** 2010  
**Place of publication:** Italy  
**Order:** 054

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**Authors (In Order of Authorship):** E. Reixach, N. Bonet, F. X. Rius-Ruiz, S. Wershofen, A. Vidal-Ferran  
**Title:** "Zinc Acetates as Efficient Catalysts for the Synthesis of Bis-isocyanate Precursors"  
**Journal/Book Title:** Ind. Eng. Chem. Res. **Key: A**  
**Volume:** 49           **Pages, initial:** 6362           **final:** 6366           **Year:** 2010  
**Place of publication:** USA  
**Order:** 055

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**Authors (In Order of Authorship):** S. Rodríguez-Esrich, D. Popa, C. Jimeno, A. Vidal-Ferran, M.A. Pericàs  
**Title:** "(S)-2-[(S)-Fluoro(phenyl)methyl]oxirane: A General Reagent for Determining the ee of Alpha-chiral Amines"  
(Corrigendum to Org. Lett. 2005, 7, 3829-3832)  
**Journal/Book Title:** Org. Lett. **Key: A**  
**Volume:** 12           **Pages, initial:** 3116           **final:** 3116           **Year:** 2010  
**Place of publication:** USA  
**Order:** 056

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**Authors (In Order of Authorship):** A. Panossian, H. Fernández-Pérez, D. Popa, A. Vidal-Ferran  
**Title:** "Highly Modular P-OP Ligands in Asymmetric Allylic Substitution"  
**Journal/Book Title:** Tetrahedron: Asymmetry **Key: A**  
**Volume:** 21           **Pages, initial:** 2281           **final:** 2288           **Year:** 2010  
**Place of publication:** Great Britain  
**Order:** 057

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**Authors (In Order of Authorship):** J. Albero, E. Martínez-Ferrero, D. Iacopino, A. Vidal-Ferran, E. Palomares  
**Title:** "Interfacial Charge Transfer Dynamics in CdSe/dipole Molecules Coated Quantum Dot Polymer Blends"  
**Journal/Book Title:** Phys. Chem. Chem. Phys. **Key: A**  
**Volume:** 12           **Pages, initial:** 13047           **final:** 13051           **Year:** 2010  
**Place of publication:** Great Britain  
**Order:** 058

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**Authors (In Order of Authorship):** M. A. Sarmentero, H. Fernández-Pérez, E. Zuidema, C. Bo, A. Vidal-Ferran, P. Ballester  
**Title:** "Catalytic Hydrogenation of Norbornadiene by a Rhodium Complex in a Self-Folding Cavitand"  
**Journal/Book Title:** Angew. Chem. Int. Ed. –VIP paper– **Key: A**  
**Volume:** 49           **Pages, initial:** 7489           **final:** 7492           **Year:** 2010  
**Place of publication:** Germany  
**Order:** 059

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**Authors (In Order of Authorship):** M. Revés, C. Ferrer, T. León, S. Doran, P. Etayo, A. Vidal-Ferran, A. Riera, X. Verdaguer  
**Title:** "Primary and Secondary Aminophosphines as Novel P-Stereogenic Building Blocks for Ligand Synthesis"  
**Journal/Book Title:** Angew. Chem. Int. Ed. Key: A  
**Volume:** 49 **Pages, initial:** 9452 **final:** 9455 **Year:** 2010  
**Place of publication:** Germany  
**Order:** 060

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**Authors (In Order of Authorship):** J. L. Núñez-Rico, H. Fernández-Pérez, J. Benet-Buchholz, A. Vidal-Ferran  
**Title:** "Asymmetric Hydrogenation of Heteroaromatic Compounds Mediated by Iridium-(P-OP) Complexes"  
**Journal/Book Title:** Organometallics Key: A  
**Volume:** 29 **Pages, initial:** 6627 **final:** 6631 **Year:** 2010  
**Place of publication:** USA  
**Order:** 061

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**Authors (In Order of Authorship):** H. Fernández-Pérez, P. Etayo, A. Panossian, A. Vidal-Ferran  
**Title:** "Phosphine-Phosphinite and Phosphine-Phosphite Ligands: Preparation and Applications in Asymmetric Catalysis"  
**Journal/Book Title:** Chem. Rev. Key: R  
**Volume:** 111 **Pages, initial:** 2119 **final:** 2176 **Year:** 2011  
**Place of publication:** USA  
**Order:** 062

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**Authors (In Order of Authorship):** D. Amilan Jose, I. Mon, H. Fernández-Pérez, E. C. Escudero-Adán, J. Benet-Buchholz, A. Vidal-Ferran  
**Title:** "Allosteric P=O-Based Receptors for Dicarboxylic Acids"  
**Journal/Book Title:** Org. Lett. Key: A  
**Volume:** 13 **Pages, initial:** 3632 **final:** 3635 **Year:** 2011  
**Place of publication:** USA  
**Order:** 063

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**Authors (In Order of Authorship):** M. Revés, C. Ferrer, T. León, S. Doran, P. Etayo, A. Vidal-Ferran, A. Riera, X. Verdaguer  
**Title:** "Primary and Secondary Aminophosphines as Novel P-Stereogenic Building Blocks for Ligand Synthesis" (Corrigendum to Angew. Chem. Int. Ed. 2010, 49, 9452-9455)  
**Journal/Book Title:** Angew. Chem. Int. Ed. Key: A  
**Volume:** 50 **Pages, initial:** 8776 **final:** 8776 **Year:** 2011  
**Place of publication:** Germany  
**Order:** 064

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**Authors (In Order of Authorship):** P. Ballester, A. Vidal-Ferran, P. W. N. M. van Leeuwen  
**Title:** "Modern Strategies in Supramolecular Catalysis"  
**Journal/Book Title:** Advances in Catalysis Key: A  
**Volume:** 54 **Pages, initial:** 63 **final:** 126 **Year:** 2011  
**Place of publication:** USA  
**Order:** 065

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**Authors (In Order of Authorship):** P. Etayo, J. L. Núñez-Rico, H. Fernández-Pérez, A. Vidal-Ferran  
**Title:** "Enantioselective Access to Chiral Drugs by using Asymmetric Hydrogenation Catalyzed by Rh(P-OP) Complexes"  
**Journal/Book Title:** Chem. Eur. J. Key: A  
**Volume:** 17 **Pages, initial:** 13978 **final:** 13982 **Year:** 2011  
**Place of publication:** Germany  
**Highlighted in Synfacts 2012, 8(2), 181**  
**Order:** 066

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**Authors (In Order of Authorship):** P. Etayo, J. L. Núñez-Rico, A. Vidal-Ferran  
**Title:** "Chiral Rhodium Complexes Derived From Electron-Rich Phosphine-Phosphites as Asymmetric Hydrogenation Catalysts"  
**Journal/Book Title:** Organometallics Key: A  
**Volume:** 30 **Pages, initial:** 6718 **final:** 6725 **Year:** 2011  
**Place of publication:** USA  
**Order:** 067

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**Authors (In Order of Authorship):** H. Degenbeck, A.-S. Felten, J. Etxebarria, E. C. Escudero-Adán, J. Benet-Buchholz, A. Vidal-Ferran  
**Title:** "Crystallization-Induced Dynamic Resolution of Stereolabile Biaryl Derivatives Involving Supramolecular Interactions"  
**Journal/Book Title:** Cryst. Growth Des. Key: A  
**Volume:** 12 **Pages, initial:** 2719 **final:** 2723 **Year:** 2012  
**Place of publication:** USA  
**Order:** 068

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**Authors (In Order of Authorship):** H. Degenbeck, A. S. Felten, E. C. Escudero-Adan, J. Benet-Buchholz, L. Di Bari, G. Pescitelli, A. Vidal-Ferran  
**Title:** "New Chiral Zinc Complexes: Synthesis, Structure, and Induction of Axial Chirality"  
**Journal/Book Title:** Inorg. Chem. Key: A  
**Volume:** 51 **Pages, initial:** 8643 **final:** 8645 **Year:** 2012  
**Place of publication:** USA  
**Order:** 069

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**Authors (In Order of Authorship):** J.L. Núñez-Rico, P. Etayo, H. Fernández-Pérez, A. Vidal-Ferran  
**Title:** "Modular P-OP Ligands in Rhodium-Mediated Asymmetric Hydrogenation: A Comparative Catalysis Study"  
**Journal/Book Title:** Adv. Synth. Catal. Key: A  
**Volume:** 354 **Pages, initial:** 3025 **final:** 3035 **Year:** 2012  
**Place of publication:** Germany  
**Order:** 070

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**Authors (In Order of Authorship):** E. Reixach, R. M. Haak, S. Wershofen, A. Vidal-Ferran  
**Title:** "Alkoxyacylation of Industrially Relevant Anilines Using  $Zn_4O(O_2CCH_3)_6$  as Catalyst"  
**Journal/Book Title:** Ind. Eng. Chem. Res. Key: A  
**Volume:** 51 **Pages, initial:** 16165 **final:** 16170 **Year:** 2012  
**Place of publication:** USA  
**Order:** 071

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**Authors (In Order of Authorship):** P. Etayo, A. Vidal-Ferran  
**Title:** "Rhodium-Catalysed Asymmetric Hydrogenation as a Valuable Synthetic Tool for the Preparation of Chiral Drugs"  
**Journal/Book Title:** Chem. Soc. Rev. Key: A  
**Volume:** 42 **Pages, initial:** 728 **final:** 754 **Year:** 2013  
**Place of publication:** Great Britain  
**Order:** 072

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**Authors (In Order of Authorship):** J. L. Núñez-Rico, A. Vidal-Ferran  
**Title:** "[Ir(P-OP)]-Catalyzed Asymmetric Hydrogenation of Diversely Substituted C=N-Containing Heterocycles"  
**Journal/Book Title:** Org. Lett. Key: A  
**Volume:** 15 **Pages, initial:** 2066 **final:** 2069 **Year:** 2013  
**Place of publication:** USA  
**Order:** 073

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**Authors (In Order of Authorship):** I. Mon, D. Amilan Jose, A. Vidal-Ferran  
**Title:** "Bis(phosphite) Ligands with Distal Regulation: Applications in Rhodium-mediated Asymmetric Hydroformylations"  
**Journal/Book Title:** Chem. Eur. J. Key: A  
**Volume:** 19 **Pages, initial:** 2720 **final:** 2725 **Year:** 2013  
**Place of publication:** Germany  
**Order:** 074

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**Authors (In Order of Authorship):** H. Fernández-Pérez, J. Benet-Buchholz, A. Vidal-Ferran  
**Title:** "Small Bite-Angle P-OP Ligands for Asymmetric Hydroformylation and Hydrogenation"  
**Journal/Book Title:** Org. Lett. Key: A  
**Volume:** 15 **Pages, initial:** 3634 **final:** 3637 **Year:** 2013  
**Place of publication:** USA  
**Order:** 075

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**Authors (In Order of Authorship):** H. Fernández-Pérez, P. Etayo, J. R. Lao, J. L. Núñez-Rico, A. Vidal-Ferran  
**Title:** "Catalytic Enantioselective Reductive Desymmetrisation of Achiral and *Meso* Compounds"  
**Journal/Book Title:** Chem. Commun. --Hot paper-- Key: A  
**Volume:** 49 **Pages, initial:** 10666 **final:** 10675 **Year:** 2013  
**Place of publication:** Great Britain  
**Order:** 076

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**Authors (In Order of Authorship):** P. Ballester, P. W. N. M. van Leeuwen, A. Vidal-Ferran  
**Title:** "Supramolecular Catalysis"  
**Journal/Book Title:** Comprehensive Inorganic Chemistry II: From Elements to Applications Key: CB  
**Volume:** **Pages, initial:** 457 **final:** 486 **Year:** 2013  
**Place of publication:** Great Britain  
**Order:** 077

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**Authors (In Order of Authorship):** J. L. Núñez-Rico, H. Fernández-Pérez, A. Vidal-Ferran  
**Title:** "Asymmetric Hydrogenation of Unprotected Indoles Using Iridium Complexes derived from P-OP Ligands and (Reusable) Brønsted Acids"  
**Journal/Book Title:** Green Chem. Key: A  
**Volume:** 16 **Pages, initial:** 1153 **final:** 1157 **Year:** 2014  
**Place of publication:** Great Britain  
**Order:** 078

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**Authors (In Order of Authorship):** M. Raynal, P. Ballester, A. Vidal-Ferran, P. W. N. M. van Leeuwen  
**Title:** "Supramolecular Catalysis. Part 1: Non-covalent Interactions as a Tool for Building and Modifying Homogeneous Catalysts"  
**Journal/Book Title:** Chem. Soc. Rev. Key: A  
**Volume:** 43 **Pages, initial:** 1660 **final:** 1733 **Year:** 2014  
**Place of publication:** Great Britain  
**Order:** 079

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**Authors (In Order of Authorship):** M. Raynal, P. Ballester, A. Vidal-Ferran, P. W. N. M. van Leeuwen  
**Title:** "Supramolecular Catalysis. Part 2: Artificial Enzyme Mimics"  
**Journal/Book Title:** Chem. Soc. Rev. Key: A  
**Volume:** 43 **Pages, initial:** 1734 **final:** 1787 **Year:** 2014  
**Place of publication:** Great Britain  
**Order:** 080

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**Authors (In Order of Authorship):** E. Cristóbal-Lecina, P. Etayo, S. Doran, M. Revés, P. Martín-Gago, A. Grabulosa, A. R. Costantino, A. Vidal-Ferran, A. Riera, X. Verdaguer  
**Title:** "MaxPHOS Ligand: PH/NH Tautomerism and Rhodium-Catalyzed Asymmetric Hydrogenations"  
**Journal/Book Title:** Adv. Synth. Catal. Key: A  
**Volume:** 356 **Pages, initial:** 795 **final:** 804 **Year:** 2014  
**Place of publication:** Germany  
**Order:** 081

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**Authors (In Order of Authorship):** J. R. Lao, J. Benet-Buchholz, A. Vidal-Ferran  
**Title:** "1,1-P-OP Ligands with P-Stereogenic Phosphino Groups in Asymmetric Hydrogenations and Hydroformylations"  
**Journal/Book Title:** Organometallics Key: A  
**Volume:** 33 **Pages, initial:** 2960 **final:** 2963 **Year:** 2014  
**Place of publication:** USA  
**Order:** 082

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**Authors (In Order of Authorship):** H. Fernández-Pérez, J. Benet-Buchholz, A. Vidal-Ferran  
**Title:** "Enantiopure Narrow Bite-Angle P-OP Ligands: Synthesis, and Catalytic Performance in Asymmetric Hydroformylations and Hydrogenations"  
**Journal/Book Title:** Chem. Eur. J. Key: A  
**Volume:** 20 **Pages, initial:** 15375 **final:** 15384 **Year:** 2014  
**Place of publication:** Germany  
**Order:** 083

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**Authors (In Order of Authorship):** H. Fernández-Pérez, P. Etayo, J. L. Núñez-Rico, B. Bugga, A. Vidal-Ferran  
**Title:** "Ring-opening of Enantiomerically Pure Oxa-containing Heterocycles with Phosphorus Nucleophiles"  
**Journal/Book Title:** RSC Adv. Key: A  
**Volume:** 4 **Pages, initial:** 58440 **final:** 58447 **Year:** 2014  
**Place of publication:** Great Britain  
**Order:** 084

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**Authors (In Order of Authorship):** H. Fernández-Pérez, I. Mon, A. Frontera, A. Vidal-Ferran  
**Title:** "Enantiopure Bisphosphine Ligands with Appended Crown Ether Groups as Regulation Sites for Rh-mediated Hydrogenations"  
**Journal/Book Title:** Tetrahedron Key: A  
**Volume:** 71 **Pages, initial:** 4490 **final:** 4494 **Year:** 2015  
**Place of publication:** Great Britain  
**Order:** 085

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**Authors (In Order of Authorship):** A. Vidal-Ferran, I. Mon, A. Bauzá, A. Frontera, L. Rovira  
**Title:** "Supramolecularly Regulated Ligands for Asymmetric Hydroformylations and Hydrogenations"  
**Journal/Book Title:** Chem. Eur. J. Key: A  
**Volume:** 21 **Pages, initial:** 11417 **final:** 11426 **Year:** 2015  
**Place of publication:** Germany  
**Highlighted in Advances in Engineering** 6 October 2015  
**Order:** 086

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**Authors (In Order of Authorship):** B. Bugga, J. L. Núñez-Rico, A. Vidal-Ferran  
**Title:** "Substrate Activation in the Catalytic Asymmetric Hydrogenation of N-Heteroarenes"  
**Journal/Book Title:** Eur. J. Org. Chem. Key: A  
**Volume:** 36 **Pages, initial:** 5293 **final:** 5303 **Year:** 2015  
**Place of publication:** Germany  
**Order:** 087

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**Authors (In Order of Authorship):** J. R. Lao, H. Fernández-Pérez, A. Vidal-Ferran  
**Title:** "Hydrogenative Kinetic Resolution of Vinyl Sulfoxides"  
**Journal/Book Title:** Org. Lett. Key: A  
**Volume:** 17 **Pages, initial:** 4114 **final:** 4117 **Year:** 2015  
**Place of publication:** USA  
**Highlighted in Synfacts** 2015, 11(11), 1184 and **ChemInform** 2016, 47, 02-28  
**Order:** 088

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**Authors (In Order of Authorship):** L. Cabau, I. Garcia-Benito, A. Molina-Ontoria, N. F. Montcada, N. Martín, A. Vidal-Ferran, E. Palomares  
**Title:** "Diarylamino-substituted Tetraarylethene (TAE) as an Efficient and Robust Hole Transport Material for 11% Methyl Ammonium Lead Iodide Perovskite Solar Cells"  
**Journal/Book Title:** Chem. Commun. Key: A  
**Volume:** 51 **Pages, initial:** 13980 **final:** 13982 **Year:** 2015  
**Place of publication:** Great Britain  
**Order:** 089

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**Authors (In Order of Authorship):** P. Ballester, P. W. N. M. van Leeuwen, A. Vidal-Ferran  
**Title:** "Supramolecular Catalysis"  
**Journal/Book Title:** Reference Module in Chemistry, Molecular Science and Chemical Engineering Key: CB  
**Volume:** **Pages, initial:** 1 **final:** 32 **Year:** 2015  
**Place of publication:** Great Britain  
**Order:** 090

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**Authors (In Order of Authorship):** L. Rovira, M. Vaquero, A. Vidal-Ferran  
**Title:** "Asymmetric Hydroformylation of Heterocyclic Olefins Mediated by Supramolecularly Regulated Rhodium-Bisphosphite Complexes"  
**Journal/Book Title:** J. Org. Chem. Key: A  
**Volume:** 80 **Pages, initial:** 10397 **final:** 10403 **Year:** 2015  
**Place of publication:** USA  
**Order:** 091

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**Authors (In Order of Authorship):** L. Rovira, H. Fernández-Pérez, A. Vidal-Ferran  
**Title:** "Palladium-Based Supramolecularly Regulated Catalysts for Asymmetric Allylic Substitutions"  
**Journal/Book Title:** Organometallics Key: A  
**Volume:** 35 **Pages, initial:** 528 **final:** 533 **Year:** 2016  
**Place of publication:** USA  
**Order:** 092

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**Authors (In Order of Authorship):** B. Bugga, A. Vidal-Ferran  
**Title:** "A Practical Synthesis of Rhodium Precatalysts for Enantioselective Hydrogenative Transformations"  
**Journal/Book Title:** Synthesis Key: A  
**Volume:** 48 **Pages, initial:** 997 **final:** 1001 **Year:** 2016  
**Place of publication:** Germany  
**Order:** 093

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**Authors (In Order of Authorship):** A. Desmarchelier, X. Caumes, M. Raynal, A. Vidal-Ferran, P. W. N. M. van Leeuwen, L. Bouteiller  
**Title:** "Correlation between the Selectivity and the Structure of an Asymmetric Catalyst Built on a Chirally Amplified Supramolecular Helical Scaffold"  
**Journal/Book Title:** J. Am. Chem. Soc. Key: A  
**Volume:** 138 **Pages, initial:** 4908 **final:** 4916 **Year:** 2016  
**Place of publication:** USA  
**Order:** 094

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**Authors (In Order of Authorship):** H. Fernández-Pérez, J. R. Lao, A. Vidal-Ferran  
**Title:** "Stereoselective Rh-Catalyzed Hydrogenative Desymmetrization of Achiral Substituted 1,4-Dienes"  
**Journal/Book Title:** Org. Lett. Key: A  
**Volume:** 18 **Pages, initial:** 2836 **final:** 2839 **Year:** 2016  
**Highlighted in ChemInform** 2016, 47, 44-061  
**Place of publication:** USA  
**Order:** 095

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**Authors (In Order of Authorship):** M. Vaquero, L. Rovira, A. Vidal-Ferran  
**Title:** "Supramolecularly Fine-regulated Enantioselective Catalysts"  
**Journal/Book Title:** Chem. Commun. Key: A  
**Volume:** 52 **Pages, initial:** 11038 **final:** 11051 **Year:** 2016  
**Highlighted in ChemInform** 2016, 47, 45-231  
**Place of publication:** Great Britain  
**Order:** 096

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**Authors (In Order of Authorship):** B. Bugga, A. Bauzá, A. Frontera, A. Vidal-Ferran  
**Title:** "Asymmetric Hydrogenation of Seven-Membered C=N-Containing Heterocycles and Rationalization of the Enantioselectivity"  
**Journal/Book Title:** Chem. Eur. J. Key: A  
**Volume:** 22 **Pages, initial:** 10607 **final:** 10613 **Year:** 2016  
**Highlighted in Synfacts** 2016, 12(10), 1068  
**Place of publication:** Germany  
**Order:** 097

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**Authors (In Order of Authorship):** L. Carreras, L. Rovira, M. Vaquero, I. Mon, E. Martin, J. Benet-Buchholz, A. Vidal-Ferran  
**Title:** "Syntheses, Characterisation and Solid-state Study of Alkali and Ammonium BARF Salts"  
**Journal/Book Title:** RSC Advances Key: A  
**Volume:** 7 **Pages, initial:** 32833 **final:** 32841 **Year:** 2017  
**Place of publication:** Great Britain  
**Order:** 098

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**Authors (In Order of Authorship):** L. Carreras, M. Serrano-Torné, P. W. N. M. van Leeuwen, A. Vidal-Ferran  
**Title:** "XBphos-Rh: a Halogen-bond Assembled Supramolecular Catalyst"  
**Journal/Book Title:** Chem. Sci. Key: A  
**Volume:** 9 **Pages, initial:** 3644 **final:** 3648 **Year:** 2018  
**Highlighted in ChemistryViews** 23<sup>rd</sup> February 2018; selected as one of the Most Popular 2018-2019 Supramolecular Chemistry Articles by the Royal Society of Chemistry, [https://pubs.rsc.org/en/journals/articlecollectionlanding?sercode=sc&themeid=5737c569-8f61-409b-a9c5-0232\\_40d22269](https://pubs.rsc.org/en/journals/articlecollectionlanding?sercode=sc&themeid=5737c569-8f61-409b-a9c5-0232_40d22269)  
**Place of publication:** Great Britain  
**Order:** 099

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**Authors (In Order of Authorship):** H. Fernández-Pérez, B. Bugga, A. Vidal-Ferran  
**Title:** "Structural Investigations on Enantiopure P–OP Ligands: A High-Performing P–OP Ligand for Rhodium-Catalysed Hydrogenations"  
**Journal/Book Title:** Eur. J. Org. Chem. Key: A  
**Volume:**           **Pages, initial:** 1525           **final:** 1532           **Year:** 2018  
**Place of publication:** Germany  
**Order:** 100

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**Authors (In Order of Authorship):** C. Rodríguez-Seco, L. Cabau, A. Vidal-Ferran, E. Palomares  
**Title:** "Advances in the Synthesis of Small Molecules as Hole Transport Materials for Lead Halide Perovskite Solar Cells"  
**Journal/Book Title:** Acc. Chem. Res. Key: A  
**Volume:** 51           **Pages, initial:** 869           **final:** 880           **Year:** 2018  
**Place of publication:** USA  
**Order:** 101

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**Authors (In Order of Authorship):** R. Pudi, C. Rodríguez-Seco, A. Vidal-Ferran, P. Ballester, E. Palomares  
**Title:** "*o,p*-Dimethoxybiphenyl Arylamine Substituted Porphyrins as Hole-Transport Materials: Electrochemical, Photophysical, and Carrier Mobility Characterization"  
**Journal/Book Title:** Eur. J. Org. Chem. Key: A  
**Volume:**           **Pages, initial:** 2064           **final:** 2070           **Year:** 2018  
**Place of publication:** Germany  
**Order:** 102

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**Authors (In Order of Authorship):** C. Rodríguez-Seco, S. Biswas, G. D. Sharma, A. Vidal-Ferran, E. Palomares  
**Title:** "Benzothiadiazole Substituted Semiconductor Molecules for Organic Solar Cells: The Effect of the Solvent Annealing Over the Thin Film Hole Mobility Values"  
**Journal/Book Title:** J. Phys. Chem. C Key: A  
**Volume:** 122           **Pages, initial:** 13782           **final:** 13789           **Year:** 2018  
**Place of publication:** USA  
**Order:** 103

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**Authors (In Order of Authorship):** C. Rodríguez-Seco, A. Vidal-Ferran, R. Misra, G. D. Sharma, E. Palomares  
**Title:** "Efficient Non-polymeric Heterojunctions in Ternary Organic Solar Cells"  
**Journal/Book Title:** ACS Appl. Energy Mater. Key: A  
**Volume:** 1           **Pages, initial:** 4203           **final:** 4210           **Year:** 2018  
**Place of publication:** USA  
**Order:** 104

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**Authors (In Order of Authorship):** N. Llorente, H. Fernández-Pérez, A. Bauzá, A. Frontera, A. Vidal-Ferran  
**Title:** "Ni-Catalysed Intramolecular [4+4]-cycloadditions of bis-dienes towards Eight-membered Fused Bicyclic Systems: a Combined Experimental and Computational Study"  
**Journal/Book Title:** Cat. Sci. Technol. Key: A  
**Volume:** 8           **Pages, initial:** 5251           **final:** 5258           **Year:** 2018  
**Place of publication:** Great Britain  
**Order:** 105

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**Authors (In Order of Authorship):** N. Llorente, H. Fernández-Pérez, J. L. Núñez-Rico, L. Carreras, A. Martínez-Carrión, E. Iniesta, A. Romero-Navarro, A. Martínez-Bascuñana, A. Vidal-Ferran  
**Title:** "Efficient Modular Phosphorus-containing Ligands for Stereoselective Catalysis"  
**Journal/Book Title:** Pure Appl. Chem. Key: A  
**Volume:** 91           **Pages, initial:** 3           **final:** 15           **Year:** 2019  
**Place of publication:** Germany  
**Order:** 106

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**Authors (In Order of Authorship):** L. Carreras, J. Benet-Buchholz, A. Franconetti, A. Frontera, P. W. N. M. van Leeuwen, A. Vidal-Ferran  
**Title:** "Halogen Bonding Effects on the Outcome of Reactions at Metal Centres"  
**Journal/Book Title:** Chem. Commun. Key: A  
**Volume:** 55 **Pages, initial:** 2380 **final:** 2383 **Year:** 2019  
**Place of publication:** Great Britain  
**Order:** 107

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**Authors (In Order of Authorship):** I. Gelmetti, N. F. Montcada, A. Pérez-Rodríguez, E. Barrena, C. Ocal, I. García-Benito, A. Molina-Ontoria, N. Martín, A. Vidal-Ferran, E. Palomares  
**Title:** "Energy Alignment and Recombination in Perovskite Solar Cells: Weighted Influence on the Open Circuit Voltage"  
**Journal/Book Title:** Energy Environ. Sci. Key: A  
**Volume:** 12 **Pages, initial:** 1309 **final:** 1316 **Year:** 2019  
**Place of publication:** Great Britain  
Hot paper  
**Order:** 108

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**Authors (In Order of Authorship):** A. Martínez-Carrión, M. G. Howlett, C. Alamillo-Ferrer, A. D. Clayton, R. A. Bourne, A. Codina, A. Vidal-Ferran, R. W. Adams, J. Burés  
**Title:** "Kinetic Treatments for Catalyst Activation and Deactivation Processes Based on Variable Time Normalization Analysis"  
**Journal/Book Title:** Angew. Chem. Int. Ed. Key: A  
**Volume:** 58 **Pages, initial:** 10189 **final:** 10193 **Year:** 2019  
**Place of publication:** Germany  
**Order:** 109

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**Authors (In Order of Authorship):** B. Puértolas, M. Rellán-Piñero, J. L. Núñez-Rico, A. P. Amrute, A. Vidal-Ferran, N. López, J. Pérez-Ramírez, S. Wershofen  
**Title:** "Mechanistic Insights into the Ceria-Catalyzed Synthesis of Carbamates as Polyurethane Precursors"  
**Journal/Book Title:** ACS Catal. Key: A  
**Volume:** 9 **Pages, initial:** 7708 **final:** 7720 **Year:** 2019  
**Place of publication:** USA  
**Order:** 110

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**Authors (In Order of Authorship):** H. Fernández-Pérez, A. Vidal-Ferran  
**Title:** "Stereoselective Catalytic Synthesis of *P*-Stereogenic Oxides via Hydrogenative Kinetic Resolution"  
**Journal/Book Title:** Org. Lett. Key: A  
**Volume:** 21 **Pages, initial:** 7019 **final:** 7023 **Year:** 2019  
**Place of publication:** USA  
**Order:** 111

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**Authors (In Order of Authorship):** M. N. Corella-Ochoa, J. B. Tapia, H. N. Rubin, V. Lillo, J. González-Cobos, J. L. Núñez-Rico, S. R. G. Balestra, N. Almora-Barrios, M. Lledós, A. Güell-Bara, J. Cabezas-Giménez, E. C. Escudero-Adán, A. Vidal-Ferran, S. Calero, M. Reynolds, C. Martí-Gastaldo, J. R. Galán-Mascarós  
**Title:** "Homo-chiral Metal–Organic Frameworks for Enantioselective Separations in Liquid Chromatography"  
**Journal/Book Title:** J. Am. Chem. Soc. Key: A  
**Volume:** 141 **Pages, initial:** 14306 **final:** 14316 **Year:** 2019  
Highlighted in Chem. Eng. News, 23<sup>rd</sup> Sept. 2019, p. 9  
**Place of publication:** USA  
**Order:** 112

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**Authors (In Order of Authorship):** A. Vidal-Ferran

**Title:** "Catalytic Reduction in Organic Synthesis, Vols. 1 and 2. Science of Synthesis, Workbench Edition Edited by J. G. de Vries"

**Journal/Book Title:** Angew. Chem. Int. Ed.

**Key:** A

**Volume:** 58      **Pages, initial:** 18744      **final:** 18744      **Year:** 2019

**Place of publication:** Germany

**Order:** 113

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**Authors (In Order of Authorship):** J. C. Córdoba, A. Vidal-Ferran, M. Font-Bardia, A. Grabulosa

**Title:** "Palladium Complexes of Methylene-Bridged P-Stereogenic, Unsymmetrical Diphosphines"

**Journal/Book Title:** Organometallics

**Key:** A

**Volume:** 39      **Pages, initial:** 2511      **final:** 2525      **Year:** 2020

**Place of publication:** USA

**Order:** 114

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**Authors (In Order of Authorship):** L. Carreras, A. Franconetti, A. Grabulosa, A. Frontera, A. Vidal-Ferran

**Title:** "Selective Functionalisation of Aromatic Alcohols with Supramolecularly Regulated Gold(I) Catalysts"

**Journal/Book Title:** Org. Chem. Front.

**Key:** A

**Volume:** 7      **Pages, initial:** 1626      **final:** 1634      **Year:** 2020

**Place of publication:** Great Britain

**Order:** 115

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**Authors (In Order of Authorship):** H. Fernández-Pérez, J. R. Lao, A. Grabulosa, A. Vidal-Ferran

**Title:** "Exploiting Substrate Diversity for Preparing Synthetically Valuable Sulfoxides via Asymmetric Hydrogenative Kinetic Resolution"

**Journal/Book Title:** Eur. J. Org. Chem.

**Key:** A

**Volume:** 2020      **Pages, initial:** 4331      **final:** 4338      **Year:** 2020

**Place of publication:** Germany

**Order:** 116

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**Authors (In Order of Authorship):** L. Han, J. González-Cobos, I. Sánchez-Molina, S. Giancola, S. J. Folkman, S. Giménez, A. Vidal-Ferran, J. R. Galán-Mascarós

**Title:** "A Low Temperature Aqueous Formate Fuel Cell Using Cobalt Hexacyanoferrate as a Non-Noble Metal Oxidation Catalyst"

**Journal/Book Title:** Sustain. Energy Fuels

**Key:** A

**Volume:** 4      **Pages, initial:** 6227      **final:** 6233      **Year:** 2020

**Place of publication:** Great Britain

**Order:** 117

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**Authors (In Order of Authorship):** H. Fernández-Pérez, P. Lenartowicz, L. Carreras, A. Grabulosa, P. Kafarski, A. Vidal-Ferran

**Title:** "Access to  $\alpha$ -Aminophosphonic Acid Derivatives and Phosphonopeptides by [Rh(P-OP)]-Catalyzed Stereoselective Hydrogenation"

**Journal/Book Title:** J. Org. Chem.

**Key:** A

**Volume:** 85      **Pages, initial:** 14779      **final:** 14784      **Year:** 2020

**Place of publication:** USA

**Order:** 118

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**Authors (In Order of Authorship):** J. L. Núñez-Rico, M. Rellán-Piñeiro, B. Puértolas, N. López, J. Pérez-Ramírez, S. Wershofen, A. Vidal-Ferran

**Title:** "Enhanced Performance of Zirconium-Doped Ceria Catalysts for the Methoxycarbonylation of Anilines"

**Journal/Book Title:** Chem. Eur. J.

**Key:** A

**Volume:** 26      **Pages, initial:** 16129      **final:** 16137      **Year:** 2020

**Hot Paper**

**Place of publication:** Germany

**Order:** 119

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**Authors (In Order of Authorship):** E. Iniesta, A. Vidal-Ferran

**Title:** "Supramolecularly Regulated Copper-Bisoxazoline Catalysts for the Efficient Insertion of Carbenoid Species into Hydroxyl Bonds"

**Journal/Book Title:** Chem. Commun.

**Key:** A

**Volume:** 56      **Pages, initial:** 6364

**final:** 6367

**Year:** 2020

**Place of publication:** Great Britain

**Order:** 120

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## 10 Relevant Publications

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Key: B = full book, CB = chapter of book, A= article, R= review, E= editor

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**Authors (In Order of Authorship):** H. Fernández-Pérez, S.M.A. Donald, I.J. Munslow, J. Benet-Buchholz, F. Maseras, A. Vidal-Ferran  
**Title:** "Highly Modular P-OP Ligands for Asymmetric Hydrogenation: Synthesis, Catalytic Activity and Mechanism"  
**Journal/Book Title:** Chem. Eur. J. Key: A  
**Volume:** 16 **Pages, initial:** 6495 **final:** 6508 **Year:** 2010  
**Highlighted in Synfacts 2010, (8), 905**  
**Place of publication:** Germany  
**Order:** 052

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**Authors (In Order of Authorship):** M. A. Sarmentero, H. Fernández-Pérez, E. Zuidema, C. Bo, A. Vidal-Ferran, P. Ballester  
**Title:** "Catalytic Hydrogenation of Norbornadiene by a Rhodium Complex in a Self-Folding Cavitand"  
**Journal/Book Title:** Angew. Chem. Int. Ed. –VIP paper– Key: A  
**Volume:** 49 **Pages, initial:** 7489 **final:** 7492 **Year:** 2010  
**Place of publication:** Germany  
**Order:** 059

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**Authors (In Order of Authorship):** J. L. Núñez-Rico, H. Fernández-Pérez, J. Benet-Buchholz, A. Vidal-Ferran  
**Title:** "Asymmetric Hydrogenation of Heteroaromatic Compounds Mediated by Iridium-(P-OP) Complexes"  
**Journal/Book Title:** Organometallics Key: A  
**Volume:** 29 **Pages, initial:** 6627 **final:** 6631 **Year:** 2010  
**Place of publication:** USA  
**Order:** 061

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**Authors (In Order of Authorship):** J.L. Núñez-Rico, P. Etayo, H. Fernández-Pérez, A. Vidal-Ferran  
**Title:** "Modular P-OP Ligands in Rhodium-Mediated Asymmetric Hydrogenation: A Comparative Catalysis Study"  
**Journal/Book Title:** Adv. Synth. Catal. Key: A  
**Volume:** 354 **Pages, initial:** 3025 **final:** 3035 **Year:** 2012  
**Place of publication:** Germany  
**Order:** 070

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**Authors (In Order of Authorship):** H. Fernández-Pérez, J. Benet-Buchholz, A. Vidal-Ferran  
**Title:** "Small Bite-Angle P-OP Ligands for Asymmetric Hydroformylation and Hydrogenation"  
**Journal/Book Title:** Org. Lett. Key: A  
**Volume:** 15 **Pages, initial:** 3634 **final:** 3637 **Year:** 2013  
**Place of publication:** USA  
**Order:** 075

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**Authors (In Order of Authorship):** J. L. Núñez-Rico, A. Vidal-Ferran  
**Title:** "[Ir(P-OP)]-Catalyzed Asymmetric Hydrogenation of Diversely Substituted C=N-Containing Heterocycles"  
**Journal/Book Title:** Org. Lett. Key: A  
**Volume:** 15 **Pages, initial:** 2066 **final:** 2069 **Year:** 2013  
**Place of publication:** USA  
**Order:** 073

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**Authors (In Order of Authorship):** I. Mon, D. Amilan Jose, A. Vidal-Ferran  
**Title:** "Bis(phosphite) Ligands with Distal Regulation: Applications in Rhodium-mediated Asymmetric Hydroformylations"  
**Journal/Book Title:** Chem. Eur. J. Key: A  
**Volume:** 19 **Pages, initial:** 2720 **final:** 2725 **Year:** 2013  
**Place of publication:** Germany  
**Order:** 074

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**Authors (In Order of Authorship):** J. L. Núñez-Rico, H. Fernández-Pérez, A. Vidal-Ferran  
**Title:** "Asymmetric Hydrogenation of Unprotected Indoles Using Iridium Complexes derived from P-OP Ligands and (Reusable) Brønsted Acids"  
**Journal/Book Title:** Green Chem. Key: A  
**Volume:** 16 **Pages, initial:** 1153 **final:** 1157 **Year:** 2014  
**Place of publication:** Great Britain  
**Order:** 078

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**Authors (In Order of Authorship):** J. R. Lao, H. Fernández-Pérez, A. Vidal-Ferran  
**Title:** "Hydrogenative Kinetic Resolution of Vinyl Sulfoxides"  
**Journal/Book Title:** Org. Lett. Key: A  
**Volume:** 17 **Pages, initial:** 4114 **final:** 4117 **Year:** 2015  
**Place of publication:** USA  
Highlighted in Synfacts 2015, 11(11), 1184 and ChemInform 2016, 47 02-28  
**Order:** 088

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**Authors (In Order of Authorship):** L. Carreras, M. Serrano-Torné, P. W. N. M. van Leeuwen, A. Vidal-Ferran  
**Title:** "XBphos-Rh: a Halogen-bond Assembled Supramolecular Catalyst"  
**Journal/Book Title:** Chem. Sci. Key: A  
**Volume:** 9 **Pages, initial:** 3644 **final:** 3648 **Year:** 2018  
Highlighted in ChemistryViews 23<sup>rd</sup> February 2018; selected as one of the Most Popular 2018-2019 Supramolecular Chemistry Articles by the Royal Society of Chemistry, <https://pubs.rsc.org/en/journals/articlecollectionlanding?sercode=sc&themeid=5737c569-8f61-409b-a9c5-023240d22269>  
**Place of publication:** Great Britain  
**Order:** 099

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## Participation in Research Contracts of Special Relevance with Companies and/or Private or Public Funding Bodies

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Contract Title: "Exploración y Optimización de Vías de Síntesis para la Preparación de Principios Activos Farmacéuticos I" (Exploration and Optimization of Synthetic Strategies for the Preparation of Pharmaceutical Targets I)  
Financial Entities: Medichem, S.A (Research activities performed at ICIQ)  
Length From: 2004 To: 2005  
Principal Researcher: Anton Vidal Ferran

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Contract Title: "Exploración y Optimización de Vías de Síntesis para la Preparación de Principios Activos Farmacéuticos II" (Exploration and Optimization of Synthetic Strategies for the Preparation of Pharmaceutical Targets II)  
Financial Entities: Medichem, S.A. (Research activities performed at ICIQ)  
Length From: 2004 To: 2006  
Principal Researcher: Anton Vidal Ferran

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Contract Title: "Elaboración de Estrategias de Síntesis para la Preparación de Isocianatos sin Fosgeno" (Elaboration of Synthetic Strategies for the Preparation of Phosgene-free Isocyanates)  
Financial Entities: Bayer MaterialScience (Research activities performed at ICIQ)  
Length From: 2005 To: 2006  
Principal Researcher: Anton Vidal Ferran

---

Contract Title: "Exploración y Optimización de Vías de Síntesis para la Preparación de Principios Activos Farmacéuticos III" (Exploration and Optimization of Synthetic Strategies for the Preparation of Pharmaceutical Targets III)  
Financial Entities: Medichem, S.A. (Research activities performed at ICIQ)  
Length From: 2005 To: 2006  
Principal Researcher: Anton Vidal Ferran

---

Contract Title: "Exploración y Optimización de Vías de Síntesis para la Preparación de Principios Activos Farmacéuticos IV" (Exploration and Optimization of Synthetic Strategies for the Preparation of Pharmaceutical Targets IV)  
Financial Entities: Medichem, S.A. (Research activities performed at ICIQ)  
Length From: 2006 To: 2007  
Principal Researcher: Anton Vidal Ferran

---

Contract Title: "Preparación de Isocianatos sin Fosgeno" (Phosgene-free Preparation of Isocyanates)  
Financial Entities: Bayer MaterialScience (Research activities performed at ICIQ)  
Length From: 2006 To: 2009  
Principal Researcher: Anton Vidal Ferran

---

Contract Title: "Estudio de Procesos para la Preparación de Biscarbamatos por Metoxicarbonilación" (Study of Processes for the Preparation of Biscarbamates by Methoxycarbonylation)  
Financial Entities: Bayer MaterialScience (Research activities performed at ICIQ)  
Length From: 2009 To: 2011  
Principal Researcher: Anton Vidal Ferran

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Contract Title: "Estudio de Procesos para la Preparación de Biscarbamatos por Metoxycarbonilación. Parte II"  
(Study of Processes for the Preparation of Biscarbamates by Methoxycarbonylation. Part II)  
Financial Entities: Bayer MaterialScience (Research activities performed at ICIQ)  
Length From: 2011 To: 2013  
Principal Researcher: Anton Vidal Ferran

---

Contract Title: "Design, Preparation and Assessment of Heterogeneous Catalysts in the Methoxycarbonylation of Anilines. Part I"  
Financial Entities: Bayer MaterialScience (Research activities performed at ICIQ)  
Length From: 2013 To: 2015  
Principal Researcher: Anton Vidal Ferran

---

Contract Title: "Design, Preparation and Assessment of Heterogeneous Catalysts in the Methoxycarbonylation of Anilines Part II"  
Financial Entities: Bayer MaterialScience (Research activities performed at ICIQ)  
Length From: 2015 To: 2016  
Principal Researcher: Anton Vidal Ferran

---

Contract Title: "Conceptually New Catalytic Systems for the Methoxycarbonylation of Anilines. Part I"  
Financial Entities: Covestro AG (Research activities performed at ICIQ)  
Length From: 2016 To: 2017  
Principal Researcher: Anton Vidal Ferran

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Contract Title: "Conceptually New Catalytic Systems for the Methoxycarbonylation of Anilines. Part II"  
Financial Entities: Covestro AG (Research activities performed at ICIQ)  
Length From: 2017 To: 2018  
Principal Researcher: Anton Vidal Ferran

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Contract Title: "Conceptually New Catalytic Systems for the Methoxycarbonylation of Anilines. Part III"  
Financial Entities: Covestro AG (Research activities performed at ICIQ)  
Length From: 2018 To: 2019  
Principal Researcher: Anton Vidal Ferran

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Contract Title: "Conceptually New Catalytic Systems for the Methoxycarbonylation of Anilines. Part IV"  
Financial Entities: Covestro AG (Research activities performed at ICIQ until December 2019 and at the University of Barcelona from January 2020)  
Length From: 2019 To: 2020  
Principal Researcher: Anton Vidal Ferran

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Contract Title: "New Catalytic Systems for the *N*-carbamoylation of Anilines"  
Financial Entities: Covestro AG (Research activities performed at the University of Barcelona)  
Length From: 2020 To: 2021  
Principal Researcher: Anton Vidal Ferran

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## Patents and Utility Models

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**Inventors (In Order of Authorship):** A. Vidal-Ferran, C. Casser, C. Alonso-Alija, M. Niehoff  
**Title:** "Verfahren zur Herstellung von aminosubstituierten Malonsäuredinitrilen (Procedure for the production of amino-substituted malononitriles)"  
**Application Form No:** DE 10057055      **Priority Country:** Germany      **Priority Date:** 2002  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:**  
**Order:** 001

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**Inventors (In Order of Authorship):** K. Joschek, A. Vidal-Ferran, M. Jautelat, M. Schelhaas  
**Title:** "Verfahren zur Herstellung von 4,5-Dihydro-1,3-thiazolen"  
**Application Form No:** EP 1288207      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** Europe  
**Companies That Are Licensing It:**  
**Order:** 002

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**Inventors (In Order of Authorship):** K. Joschek, A. Vidal-Ferran, M. Jautelat, M. Schelhaas  
**Title:** "One-pot synthesis of 4,5-dihydro-1,3-thiazoles"  
**Application Form No:** JP 2003128658      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** Japan  
**Companies That Are Licensing It:**  
**Order:** 003

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**Inventors (In Order of Authorship):** K. Joschek, A. Vidal-Ferran, M. Jautelat, M. Schelhaas  
**Title:** "One-pot synthesis of 4,5-dihydro-1,3-thiazoles"  
**Application Form No:** CA 2399927      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** Canada  
**Companies That Are Licensing It:**  
**Order:** 004

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**Inventors (In Order of Authorship):** K. Joschek, A. Vidal-Ferran, M. Jautelat, M. Schelhaas  
**Title:** "One-pot synthesis of 4,5-dihydro-1,3-thiazoles"  
**Application Form No:** US 2003078433      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** USA  
**Companies That Are Licensing It:**  
**Order:** 005

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**Inventors (In Order of Authorship):** A. Vidal-Ferran, C. Casser, M. Niehoff  
**Title:** "Verfahren zur Herstellung von Heteroaryllessingsäurenitrilen"  
**Application Form No:** DE 10221470      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:**  
**Order:** 006

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**Inventors (In Order of Authorship):** H.G. Schwarz, R. Andree, D. Hoischen, J. Kluth, K.H. Linker, Vidal-Ferran, M.W. Drewes, P. Dahmen, D. Feucht, R. Pontzen  
**Title:** "Substituierte (Thio)carbonylaminophenyl-uracile"  
**Application Form No:** WO 03/093244      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** Worldwide  
**Companies That Are Licensing It:**  
**Order:** 007

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**Inventors (In Order of Authorship):** H.G. Schwarz, R. Andree, D. Hoischen, J. Kluth, K.H. Linker, Vidal-Ferran, M.W. Drewes, P. Dahmen, D. Feucht, R. Pontzen  
**Title:** "Preparation of N-[thio(oxo)carbonylaminophenyl]uracils as herbicides"  
**Application Form No:** DE 10219434      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** Europe  
**Companies That Are Licensing It:**  
**Order:** 008

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**Inventors (In Order of Authorship):** H.G. Schwarz, R. Andree, D. Hoischen, J. Kluth, K.H. Linker, Vidal-Ferran, M.W. Drewes, P. Dahmen, D. Feucht, R. Pontzen  
**Title:** "Preparation of N-[thio(oxo)carbonylaminophenyl]uracils as herbicides"  
**Application Form No:** EP 1503994      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** Europe  
**Companies That Are Licensing It:**  
**Order:** 009

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**Inventors (In Order of Authorship):** H.G. Schwarz, R. Andree, D. Hoischen, J. Kluth, K.H. Linker, Vidal-Ferran, M.W. Drewes, P. Dahmen, D. Feucht, R. Pontzen  
**Title:** "Preparation of N-[thio(oxo)carbonylaminophenyl]uracils as herbicides"  
**Application Form No:** JP 2005535585      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** Japan  
**Companies That Are Licensing It:**  
**Order:** 010

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**Inventors (In Order of Authorship):** H.G. Schwarz, R. Andree, D. Hoischen, J. Kluth, K.H. Linker, Vidal-Ferran, M.W. Drewes, P. Dahmen, D. Feucht, R. Pontzen  
**Title:** "Preparation of N-[thio(oxo)carbonylaminophenyl]uracils as herbicides"  
**Application Form No:** US 2006089262      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** USA  
**Companies That Are Licensing It:**  
**Order:** 011

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**Inventors (In Order of Authorship):** H.G. Schwarz, R. Andree, D. Hoischen, J. Kluth, K.H. Linker, Vidal-Ferran, M.W. Drewes, P. Dahmen, D. Feucht, R. Pontzen  
**Title:** "Preparation of N-[thio(oxo)carbonylaminophenyl]uracils as herbicides"  
**Application Form No:** AU 2003240459      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** Australia  
**Companies That Are Licensing It:**  
**Order:** 012

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**Inventors (In Order of Authorship):** Geller, A. Gerlach, A. Vidal-Ferran, H.-C. Millitzer, R. Langer  
**Title:** "Polyaminosäuren und Verfahren zu deren Herstellung"  
**Application Form No:** WO 03/070808      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** Worldwide  
**Companies That Are Licensing It:**  
**Order:** 013

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**Inventors (In Order of Authorship):** Geller, A. Gerlach, A. Vidal-Ferran, H.-C. Millitzer, R. Langer  
**Title:** " Polyamino acids and method for producing the same "  
**Application Form No:** DE 10206793      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** Europe  
**Companies That Are Licensing It:**  
**Order:** 014

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**Inventors (In Order of Authorship):** Geller, A. Gerlach, A. Vidal-Ferran, H.-C. Millitzer, R. Langer  
**Title:** Polyamino acids and method for producing the same "  
**Application Form No:** AU 2003206901      **Priority Country:** Australia      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** Worldwide  
**Companies That Are Licensing It:**  
**Order:** 015

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**Inventors (In Order of Authorship):** Geller, A. Gerlach, A. Vidal-Ferran, H.-C. Millitzer, R. Langer  
**Title:** " Polyamino acids and method for producing the same "  
**Application Form No:** EP 1478680      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** Europe  
**Companies That Are Licensing It:**  
**Order:** 016

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**Inventors (In Order of Authorship):** Geller, A. Gerlach, A. Vidal-Ferran, H.-C. Millitzer, R. Langer  
**Title:** " Polyamino acids and method for producing the same "  
**Application Form No:** US 2005119445      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** USA  
**Companies That Are Licensing It:**  
**Order:** 017

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**Inventors (In Order of Authorship):** Geller, A. Gerlach, A. Vidal-Ferran, H.-C. Millitzer, R. Langer  
**Title:** " Polyamino acids and method for producing the same "  
**Application Form No:** CN 1636029      **Priority Country:** Germany      **Priority Date:** 2003  
**Holder Entity:** Bayer AG  
**Other Countries Where the Patent Has Been Extended To:** China  
**Companies That Are Licensing It:**  
**Order:** 018

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**Inventors (In Order of Authorship):** S. Rodríguez-Esrich, D. Popa, C. Jimeno, A. Vidal-Ferran, M.A. Pericàs  
**Title:** "Novel Chiral Derivatizing Reagent for the Determination of Enantiomeric Excesses"  
**Application Form No:** EP 1750119      **Priority Country:** Europe      **Priority Date:** 2007  
**Holder Entity:** ICIQ / ICREA  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:**  
**Order:** 019

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**Inventors (In Order of Authorship):** S. Rodríguez-Esrich, D. Popa, C. Jimeno, A. Vidal-Ferran, M.A. Pericàs  
**Title:** "Novel Chiral Derivatizing Reagent for the Determination of Enantiomeric Excesses"  
**Application Form No:** WO 2007017424      **Priority Country:** Europe      **Priority Date:** 2007  
**Holder Entity:** ICIQ / ICREA  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:**  
**Order:** 020

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**Inventors (In Order of Authorship):** N. Nieto, P. Molas, A. Vidal-Ferran  
**Title:** "Efficient Synthesis of Asymmetric Epoxidation Catalyst I"  
**Application Form No:** EP 1770094      **Priority Country:** Europe      **Priority Date:** 2007  
**Holder Entity:** ICIQ / ICREA  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:**  
**Order:** 021

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**Inventors (In Order of Authorship):** N. Nieto, P. Molas, A. Vidal-Ferran  
**Title:** "Efficient Synthesis of Asymmetric Epoxidation Catalyst I"  
**Application Form No:** WO 2007039492      **Priority Country:** Europe      **Priority Date:** 2007  
**Holder Entity:** ICIQ / ICREA  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:**  
**Order:** 022

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**Inventors (In Order of Authorship):** N. Nieto, P. Molas, A. Vidal-Ferran  
**Title:** "Efficient Synthesis of Asymmetric Epoxidation Catalyst I"  
**Application Form No:** WO 2007039493      **Priority Country:** Europe      **Priority Date:** 2007  
**Holder Entity:** ICIQ / ICREA  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:**  
**Order:** 023

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**Inventors (In Order of Authorship):** N. Nieto, P. Molas, J. Benet-Buchholz, A. Vidal-Ferran  
**Title:** "Efficient Catalysts for the Asymmetric Epoxidation of Electron Deficient as well as non Electron Deficient Alkenes"  
**Application Form No:** EP 1770095      **Priority Country:** Europe      **Priority Date:** 2007  
**Holder Entity:** ICIQ / ICREA  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:**  
**Order:** 024

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**Inventors (In Order of Authorship):** A. Gavaldá, J. Bosch, A. Vidal-Ferran, E. García  
**Title:** "Processes for Preparing Intermediate Compounds Useful for the Preparation of Ezetimibe"  
**Application Form No:** WO 119106      **Priority Country:** USA      **Priority Date:** 2007  
**Holder Entity:** Medichem S.A.  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:**  
**Order:** 025

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**Inventors (In Order of Authorship):** A. Gavaldá, J. Bosch, A. Vidal-Ferran, E. García  
**Title:** "Processes for Preparing Intermediate Compounds Useful for the Preparation of Ezetimibe"  
**Application Form No:** EP 1971573      **Priority Country:** USA      **Priority Date:** 2007  
**Holder Entity:** Medichem S.A.  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:**  
**Order:** 026

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**Inventors (In Order of Authorship):** A. Gavaldá, J. Bosch, A. Vidal-Ferran, E. García  
**Title:** "Processes for Preparing Intermediate Compounds Useful for the Preparation of Ezetimibe"  
**Application Form No:** CA 2634648      **Priority Country:** USA      **Priority Date:** 2007  
**Holder Entity:** Medichem S.A.  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:**  
**Order:** 027

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**Inventors (In Order of Authorship):** A. Gavaldá, J. Bosch, A. Vidal-Ferran, E. García  
**Title:** "Processes for Preparing Intermediate Compounds Useful for the Preparation of Ezetimibe"  
**Application Form No:** US 2009227786      **Priority Country:** USA      **Priority Date:** 2007  
**Holder Entity:** Medichem S.A.  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:**  
**Order:** 028

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**Inventors (In Order of Authorship):** A. Vidal-Ferran, H. Fernández-Pérez, M.A. Pericàs  
**Title:** "New Phosphine-Phosphite Ligands"  
**Application Form No:** WO 030626      **Priority Country:** Europe      **Priority Date:** 2009  
**Holder Entity:** ICIQ / ICREA  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:**  
**Order:** 029

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**Inventors (In Order of Authorship):** S. Wershofen, S. Klein, A. Vidal-Ferran, E. Reixach, F.X. Rius-Ruiz  
**Title:** "Process for Preparing Aromatic Carbamates"  
**Application Form No:** WO 105768      **Priority Country:** Europe      **Priority Date:** 2010  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 030

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**Inventors (In Order of Authorship):** S. Wershofen, S. Klein, A. Vidal-Ferran, E. Reixach, F.X. Rius-Ruiz  
**Title:** "Process for Preparing Aromatic Carbamates"  
**Application Form No:** EP 2230228      **Priority Country:** Europe      **Priority Date:** 2010  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 031

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**Inventors (In Order of Authorship):** S. Wershofen, S. Klein, A. Vidal-Ferran, E. Reixach, F.X. Rius-Ruiz  
**Title:** "Process for Preparing Aromatic Carbamates"  
**Application Form No:** KR 0139219      **Priority Country:** Europe      **Priority Date:** 2011  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:** Korea  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 032

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**Inventors (In Order of Authorship):** S. Wershofen, S. Klein, A. Vidal-Ferran, E. Reixach, F.X. Rius-Ruiz  
**Title:** "Process for Preparing Aromatic Carbamates and Isocyanates Using Zinc Catalysts"  
**Application Form No:** IN 2011DN07101      **Priority Country:** Europe      **Priority Date:** 2012  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:** India  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 033

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**Inventors (In Order of Authorship):** S. Wershofen, S. Klein, A. Vidal-Ferran, E. Reixach, F.X. Rius-Ruiz  
**Title:** "Process for Preparing Aromatic Carbamates"  
**Application Form No:** JP 520333      **Priority Country:** Europe      **Priority Date:** 2012  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:** Japan  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 034

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**Inventors (In Order of Authorship):** S. Wershofen, S. Klein, A. Vidal-Ferran, E. Reixach, F.X. Rius-Ruiz  
**Title:** "Process for Preparing Aromatic Carbamates"  
**Application Form No:** US 041223      **Priority Country:** USA      **Priority Date:** 2012  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 035

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**Inventors (In Order of Authorship):** S. Wershofen, S. Klein, A. Vidal-Ferran, E. Reixach, F.X. Rius-Ruiz  
**Title:** "Process for Preparing Aromatic Carbamates"  
**Application Form No:** CN 102356062      **Priority Country:** China      **Priority Date:** 2012  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 036

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**Inventors (In Order of Authorship):** S. Wershofen, S. Klein, A. Vidal-Ferran, E. Reixach, F.X. Rius-Ruiz  
**Title:** "Process for Preparing Aromatic Carbamates"  
**Application Form No:** US 8513453      **Priority Country:** USA      **Priority Date:** 2013  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 037

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**Inventors (In Order of Authorship):** S. Wershofen, T. Dreier, A. Vidal-Ferran, R. Haak  
**Title:** "Preparation of Zinc Benzoato Complex Cluster Compounds as Catalysts in the Reaction of Amines with Dialkyl Carbonates"  
**Application Form No:** EP 13168788      **Priority Country:** Europe      **Priority Date:** 2013  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 038

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**Inventors (In Order of Authorship):** S. Wershofen, S. Klein, A. Vidal-Ferran, E. Reixach, F.X. Rius-Ruiz  
**Title:** "Process for Preparing Aromatic Carbamates"  
**Application Form No:** JP 5645911      **Priority Country:** Japan      **Priority Date:** 2014  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 039

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**Inventors (In Order of Authorship):** T. Dreier, S. Wershofen, A. Vidal, R. Haak  
**Title:** Preparation of Zinc Benzoato Complex Cluster Compounds as Catalysts in the Reaction of Amines with Dialkyl Carbonates  
**Application Form No:** WO 2014187756      **Priority Country:** Europe      **Priority Date:** 2014  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 040

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**Inventors (In Order of Authorship):** T. Dreier, S. Wershofen, A. Vidal, R. Haak  
**Title:** Preparation of Zinc Benzoato Complex Cluster Compounds as Catalysts in the Reaction of Amines with Dialkyl Carbonates  
**Application Form No:** JP 646614      **Priority Country:** Europe      **Priority Date:** 2014  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 041

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**Inventors (In Order of Authorship):** T. Dreier, S. Wershofen, A. Vidal, R. Haak  
**Title:** Preparation of Zinc Benzoato Complex Cluster Compounds as Catalysts in the Reaction of Amines with Dialkyl Carbonates  
**Application Form No:** US 9988344      **Priority Country:** Europe      **Priority Date:** 2014  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 042

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**Inventors (In Order of Authorship):** S. Wershofen, S. Klein, A. Vidal-Ferran, E. Reixach, F.X. Rius-Ruiz  
**Title:** "Process for Preparing Aromatic Carbamates"  
**Application Form No:** EP 2408737      **Priority Country:** Europe      **Priority Date:** 2015  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG  
**Order:** 043

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**Inventors (In Order of Authorship):** S. Wershofen, T. Dreier, A. Vidal, R. Haak  
**Title:** "Zinc Cluster Compounds and their Use as Catalysts in the Reaction of Amines with Dialkyl Carbonates"  
**Application Form No:** CN 105229015      **Priority Country:** Europe      **Priority Date:** 2016  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:** China  
**Companies That Are Licensing It:** Bayer MaterialScience AG/Covestro AG  
**Order:** 044

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**Inventors (In Order of Authorship):** S. Wershofen, T. Dreier, A. Vidal, R. Haak  
**Title:** "Zinc Cluster Compounds and their Use as Catalysts in the Reaction of Amines with Dialkyl Carbonates"  
**Application Form No:** KR 2016009565      **Priority Country:** Europe      **Priority Date:** 2016  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:** Korea  
**Companies That Are Licensing It:** Bayer MaterialScience AG/Covestro AG  
**Order:** 045

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**Inventors (In Order of Authorship):** S. Wershofen, T. Dreier, A. Vidal, R. Haak  
**Title:** "Zinc Cluster Compounds and their Use as Catalysts in the Reaction of Amines with Dialkyl Carbonates"  
**Application Form No:** US 2016194277      **Priority Country:** Europe      **Priority Date:** 2016  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:** USA  
**Companies That Are Licensing It:** Bayer MaterialScience AG/Covestro AG  
**Order:** 046

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**Inventors (In Order of Authorship):** S. Wershofen, T. Dreier, A. Vidal, R. Haak  
**Title:** "Zinc Cluster Compounds and their Use as Catalysts in the Reaction of Amines with Dialkyl Carbonates"  
**Application Form No:** JP 2016520090      **Priority Country:** Europe      **Priority Date:** 2016  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:** Japan  
**Companies That Are Licensing It:** Bayer MaterialScience AG/Covestro AG  
**Order:** 047

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**Inventors (In Order of Authorship):** S. Wershofen, T. Dreier, A. Vidal, R. Haak  
**Title:** "Zinc Cluster Compounds and their Use as Catalysts in the Reaction of Amines with Dialkyl Carbonates"  
**Application Form No:** EP 2999705      **Priority Country:** Europe      **Priority Date:** 2016  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG/Covestro AG  
**Order:** 048

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**Inventors (In Order of Authorship):** S. Wershofen, S. Klein, A. Vidal-Ferran, E. Reixach, F.X. Rius-Ruiz  
**Title:** "Process for Preparing Aromatic Carbamates"  
**Application Form No:** CN102356062      **Priority Country:** China      **Priority Date:** 2016  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG/Covestro AG  
**Order:** 049

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**Inventors (In Order of Authorship):** S. Wershofen, S. Klein, A. Vidal-Ferran, E. Reixach, F.X. Rius-Ruiz  
**Title:** "Process for Preparing Aromatic Carbamates"  
**Application Form No:** HUE025054      **Priority Country:** Hungary      **Priority Date:** 2016  
**Holder Entity:** Bayer MaterialScience AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Bayer MaterialScience AG/Covestro AG  
**Order:** 050

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**Inventors (In Order of Authorship):** S. Wershofen, G. Jäger, M. Dugal, A. Vidal-Ferran, J. L. Núñez-Rico  
**Title:** "Preparation and Catalytic Activity of New and Patentable Zn Based Heterogeneous Catalysts for the Methoxycarbonylation of Aromatic Amines"  
**Provisional number:** EP 17 170 988.4      **Priority Country:** Europe      **Priority Date:** 2017  
**Holder Entity:** Covestro AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Covestro AG  
**Order:** 051

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**Inventors (In Order of Authorship):** A. Vidal-Ferran, J. L. Núñez-Rico, J. Pérez-Ramírez, B. Puértolas, A. Amrute, S., Wershofen  
**Title:** "Heterogeneous Catalysts for the Synthesis of Carbamates"  
**Provisional number:** EP18164463      **Priority Country:** Europe      **Priority Date:** 2018  
**Holder Entity:** Covestro AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Covestro AG  
**Order:** 052

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**Inventors (In Order of Authorship):** T. Dreier, S. Wershofen, A. Vidal-Ferran, R. Haak  
**Title:** "Zinc Cluster Compounds and their Use as Catalysts in the Reaction of Amines with Dialkyl Carbonates"  
**Application Form No:** HUE034953      **Priority Country:** Hungary      **Priority Date:** 2018  
**Holder Entity:** Covestro AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Covestro AG  
**Order:** 053

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**Inventors (In Order of Authorship):** S. Wershofen, G. Jäger, M. Dugal, A. Vidal-Ferran, J. L. Núñez-Rico  
**Title:** "Silica-based Zinc Catalysis. Their Preparation and Use in the Alkoxy carbonylation of Amines"  
**Application Form No:** WO2018210711      **Priority Country:** Europe      **Priority Date:** 2018  
**Holder Entity:** Covestro AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Covestro AG  
**Order:** 054

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**Inventors (In Order of Authorship):** S. Wershofen, A. Vidal-Ferran, J. L. Núñez-Rico, J. Pérez-Ramírez, B. Puértolas, A. P. Amrute  
**Title:** "Heterogeneous Catalysts for the Synthesis of Carbamates"  
**Provisional number:** EP19151926      **Priority Country:** Europe      **Priority Date:** 2019  
**Holder Entity:** Covestro AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Covestro AG  
**Order:** 055

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**Inventors (In Order of Authorship):** S. Wershofen, A. Vidal-Ferran, J. L. Núñez-Rico, J. Pérez-Ramírez, B. Puértolas, A. P. Amrute  
**Title:** "Heterogeneous Catalysts for the Synthesis of Carbamates"  
**Application Form No:** WO 2019185608      **Priority Country:** Europe      **Priority Date:** 2019  
**Holder Entity:** Covestro AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Covestro AG  
**Order:** 056

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**Inventors (In Order of Authorship):** S. Wershofen, A. Vidal-Ferran, J. L. Núñez-Rico, J. Pérez-Ramírez, B. Puértolas, A. P. Amrute  
**Title:** "Heterogeneous Catalysts for the Synthesis of Carbamates"  
**Application Form No:** CN 111971119      **Priority Country:** China      **Priority Date:** 2020  
**Holder Entity:** Covestro AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Covestro AG  
**Order:** 057

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**Inventors (In Order of Authorship):** S. Wershofen, G. Jäger, M. Dugal, A. Vidal-Ferran, J. L. Núñez-Rico  
**Title:** "Silica-based Zinc Catalysis, their Preparation and Use in the Alkoxy carbonylation of Amines"  
**Application Form No:** CN 110650944      **Priority Country:** China      **Priority Date:** 2020  
**Holder Entity:** Covestro AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Covestro AG  
**Order:** 058

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**Inventors (In Order of Authorship):** S. Wershofen, G. Jäger, M. Dugal, A. Vidal-Ferran, J. L. Núñez-Rico  
**Title:** "Silica-based Zinc Catalysis. Their Preparation and Use in the Alkoxy carbonylation of Amines"  
**Application Form No:** EP 3625210      **Priority Country:** Europe      **Priority Date:** 2020  
**Holder Entity:** Covestro AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Covestro AG  
**Order:** 059

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**Inventors (In Order of Authorship):** S. Wershofen, G. Jäger, M. Dugal, A. Vidal-Ferran, J. L. Núñez-Rico  
**Title:** "Silica-based Zinc Catalysis, their Preparation and Use in the Alkoxy carbonylation of Amines"  
**Application Form No:** US 10807084      **Priority Country:** USA      **Priority Date:** 2020  
**Holder Entity:** Covestro AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Covestro AG  
**Order:** 060

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**Inventors (In Order of Authorship):** S. Wershofen, G. Jäger, M. Dugal, A. Vidal-Ferran, J. L. Núñez-Rico  
**Title:** "Silica-based Zinc Catalysis, their Preparation and Use in the Alkoxy carbonylation of Amines"  
**Application Form No:** US 2020147594      **Priority Country:** USA      **Priority Date:** 2020  
**Holder Entity:** Covestro AG  
**Other Countries Where the Patent Has Been Extended To:**  
**Companies That Are Licensing It:** Covestro AG  
**Order:** 061

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## Stays in Internationally Recognized Centres

KEY: D = Ph.D student, P = postdoctoral, G = guest, S = staff, O = others (specify)

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Centre: University of Cambridge - Chemical Laboratory  
Place: Cambridge                      Country: Great Britain      Date: 1993 – 1994                      Length: 24 months  
Topic: Porphyrin-based Synthetic Enzymes  
Key: P

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Centre: Bayer AG  
Place: Leverkusen                      Country: Germany                      Date: 1999 – 2003                      Length: 48 months  
Topic: Several Industrial Projects  
Key: O (hired on contract)

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Centre: Institut Parisien de Chimie Moléculaire (IPCM), Université Pierre et Marie Curie  
Place: Paris                              Country: France                      Date: 2016                              Length: 2 weeks  
Topic: Visiting professorship  
Key: G

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Centre: Institut für Chemie und Biochemie / Anorganische Chemie, Freie Universität Berlin  
Place: Berlin                              Country: Germany                      Date: 2019                              Length: 2 weeks  
Topic: Visiting professorship  
Key: G

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## Presentations in Meetings

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Title: "Stoichiometrically Controlled Supramolecular Chirality Induction"

Authors: J. Etxebarria, A. Vidal-Ferran

Type of Presentation: Poster

Meeting: Chirality at the Nanoscale

Publication:

Meeting Place: Sitges (Spain)

Year: 2007

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Title: "Design of Supramolecular Ligands for Asymmetric Catalysis", poster G1-P36

Authors: J. Etxebarria, A. Vidal-Ferran

Type of Presentation: Poster

Meeting: XXXI Reunión Bienal de la Real Sociedad Española de Química

Publication:

Meeting Place: Toledo (Spain)

Year: 2007

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Title: "Aproximación Modular a una Nueva Clase de Ligandos Quirales de Fósforo. Aplicación en la Hidrogenación Enantioselectiva Catalizada por Rodio", poster G1-P34

Authors: H. Fernández-Pérez, A. Vidal-Ferran

Type of Presentation: Poster

Meeting: XXXI Reunión Bienal de la Real Sociedad Española de Química

Publication:

Meeting Place: Toledo (Spain)

Year: 2007

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Title: "Phosphinoxazolines Derived from 3-Amino-1,2-diols: Highly Efficient Modular P-N Ligands", poster G1-P35

Authors: D. Popa, A. Vidal-Ferran

Type of Presentation: Poster

Meeting: XXXI Reunión Bienal de la Real Sociedad Española de Química

Publication:

Meeting Place: Toledo (Spain)

Year: 2007

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Title: "Probing the Mechanism of Shi's Epoxidation: The role of Addition-Prone Carbonyl Species", poster G1-P31

Authors: N. Nieto, A. Vidal-Ferran

Type of Presentation: Poster

Meeting: XXXI Reunión Bienal de la Real Sociedad Española de Química

Publication:

Meeting Place: Toledo (Spain)

Year: 2007

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Title: "Highly Modular Phosphinoxazolines in the Asymmetric Amination Reaction", oral communication CO90

Authors: D. Popa, A. Vidal-Ferran

Type of Presentation: Oral Communication

Meeting: XXII Reunión Bienal de Química Orgánica

Publication:

Meeting Place: Tarragona (Spain)

Year: 2008

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(The name/s of the presenting author/s is/are underlined)

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Title: "New Modular P-O-P Ligands for Asymmetric Catalysis", poster 248  
Authors: H. Fernández-Pérez, A. Vidal-Ferran  
Type of Presentation: Poster  
Meeting: 16th International Symposium on Homogeneous Catalysis  
Publication:  
Meeting Place: Florence (Italy)  
Year: 2008

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Title: "Design of Supramolecular Chiral Ligands", poster P-007  
Authors: J. Etxebarria, A. Vidal-Ferran  
Type of Presentation: Poster  
Meeting: 2<sup>nd</sup> Euchems Chemistry Congress  
Publication:  
Meeting Place: Torino (Italy)  
Year: 2008

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Title: "Design of Supramolecular Ligands", poster P-98  
Authors: H. Degenbeck, A. Vidal-Ferran  
Type of Presentation: Poster  
Meeting: 20<sup>th</sup> International Symposium on Chirality  
Publication:  
Meeting Place: Geneva (Switzerland)  
Year: 2008

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Title: "Highly Modular P-OP Ligands for Asymmetric Hydrogenation", oral communication 30  
Authors: H. Fernández-Pérez, A. Vidal-Ferran  
Type of Presentation: Oral Communication  
Meeting: VI Simposio de Investigadores Jóvenes RSEQ - Sigma Aldrich  
Publication:  
Meeting Place: Granada (Spain)  
Year: 2009

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Title: "Design of Supramolecular Chiral Ligands", poster P-14  
Authors: H. Degenbeck, A. Vidal-Ferran  
Type of Presentation: Poster  
Meeting: CD 2009 – 12th International Conference on Circular Dichroism  
ISBC – 5th Interdisciplinary Symposium on Biological Chirality  
Publication:  
Meeting Place: Brescia (Italy)  
Year: 2009

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Title: "Allosteric P=O-based Receptors for Dicarboxylic Acids", poster P 2.184  
Authors: I. Mon, D. Amilan Jose, H. Fernández-Pérez, A. Vidal-Ferran  
Type of Presentation: Poster  
Meeting: 17th European Symposium on Organic Chemistry (ESOC 2011)  
Publication:  
Meeting Place: Creta (Greece)  
Year: 2011

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(The name/s of the presenting author/s is/are underlined)

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Title: "Asymmetric Hydrogenation of Heteroaromatic Compounds Catalyzed by Iridium *-P-OP Complexes*", poster P-240

Authors: J. L. Núñez-Rico, H. Fernández-Pérez, A. Vidal-Ferran

Type of Presentation: Poster

Meeting: XIX EuCheMS Conference on Organometallic Chemistry (EuCOMC XIX)

Publication:

Meeting Place: Toulouse (France)

Year: 2011

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Title: "Application of Highly Modular P-OP Ligands in Asymmetric Hydrogenation"

Authors: H. Fernández-Pérez, A. Vidal-Ferran

Type of Presentation: Oral Communication and Poster

Meeting: CEICS Nobel Campus

Publication:

Meeting Place: Tarragona (Spain)

Year: 2012

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Title: "Transfer of Chirality in New Supramolecular Complexes as Design Principle for Future"

Authors: H. Degenbeck, J. Etxebarria, A.-S. Felten, A. Vidal-Ferran

Type of Presentation: Poster

Meeting: CEICS Nobel Campus

Publication:

Meeting Place: Tarragona (Spain)

Year: 2012

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Title: "Bis(phosphite) Ligands with Distal Regulation: Rh-mediated Asymmetric Hydroformylation"

Authors: I. Mon, D. Amilan Jose, A. Vidal-Ferran

Type of Presentation: Poster

Meeting: ICIQ-Unicat Summer School 2013

Publication:

Meeting Place: Tarragona (Spain)

Year: 2013

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Title: "1,1-P-OP Ligands with P-Stereogenic Phosphino Groups in Asymmetric Hydrogenations and Hydroformylations", poster P-83

Authors: J. R. Lao, A. Vidal-Ferran

Type of Presentation: Poster and Flash Presentation

Meeting: 20th International Conference on Phosphorus Chemistry (ICPC 2014)

Publication:

Meeting Place: Dublin (Ireland)

Year: 2014

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Title: "Bis(phosphite) Ligands with a Distal Regulation Site for Asymmetric Catalysis", poster P-33

Authors: L. Rovira, M. Vaquero, A. Vidal-Ferran

Type of Presentation: Poster

Meeting: 7th Spanish-Portuguese-Japanese Organic Chemistry Symposium (7th SPJ-OCS)

Publication:

Meeting Place: Sevilla (Spain)

Year: 2015

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(The name/s of the presenting author/s is/are underlined)

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Title: "[Ir(Cl)(POP)] Catalyzed Enantioselective Hydrogenation of Seven-membered Heteroaromatic Compounds", poster P-49

Authors: B. Bugga, A. Vidal-Ferran

Type of Presentation: Poster

Meeting: 7th Spanish-Portuguese-Japanese Organic Chemistry Symposium (7th SPJ-OCS)

Publication:

Meeting Place: Sevilla (Spain)

Year: 2015

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Title: "Design and Application of Bis(phosphite) Ligands with a Distal Regulation Site for Asymmetric Catalysis", poster P-351

Authors: L. Rovira, M. Vaquero, A. Vidal-Ferran

Type of Presentation: Poster

Meeting: 18th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS 18)

Publication:

Meeting Place: Sitges (Spain)

Year: 2015

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Title: "TADDOL based 1,2-P-OP Ligands for Asymmetric Hydrogenations of Functionalized Alkenes", poster P-340

Authors: B. Bugga, A. Vidal-Ferran

Type of Presentation: Poster

Meeting: 18th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS 18)

Publication:

Meeting Place: Sitges (Spain)

Year: 2015

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Title: "Kinetic Resolution of Vinyl Sulfoxides by Rh-mediated Asymmetric Hydrogenation: A New Efficient Methodology for the Preparation of Enantiopure Sulfoxides", oral communication 37

Authors: J. R. Lao, H. Fernández-Pérez, A. Vidal-Ferran

Type of Presentation: Oral Communication

Meeting: 250th ACS National Meeting and Exposition

Publication:

Meeting Place: Boston (USA)

Year: 2015

---

Title: "Synthesis and Exploitation of MetalloPorphyrins for Organic Photovoltaic Devices (OPV)", poster P-2016

Authors: R. Pudi, W. Cambarau, L. Cabau, C. Rodríguez, A. Vidal-Ferran, P. Ballester, E. Palomares

Type of Presentation: Poster

Meeting: International Conference on Porphyrins and Phthalocyanines (ICPP9)

Publication:

Meeting Place: Nanjing (China)

Year: 2016

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Title: "Hydrogenative Kinetic Resolution of Vinyl Sulfoxides", poster OP2

Authors: J. R. Lao, H. Fernández-Pérez, A. Vidal-Ferran

Type of Presentation: Poster

Meeting: VIII REQOMED – Reunión de Química Orgánica del Mediterráneo

Publication:

Meeting Place: Palma de Mallorca (Spain)

Year: 2017

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(The name/s of the presenting author/s is/are underlined)



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Title: "Supramolecularly Regulated Phosphite-based Ligands Applied to Gold Catalysis", poster OMSC011  
Authors: L. Carreras, A. Vidal-Ferran  
Type of Presentation: Poster  
Meeting: 20th European Symposium on Organic Chemistry (ESOC 2017)  
Publication:  
Meeting Place: Köln (Germany)  
Year: 2017

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Title: "Modular Design of P-OP Ligands for Rhodium-mediated Stereoselective Hydrogenative Transformations", poster OP24  
Authors: H. Fernández-Pérez, J. R. Lao, A. Vidal-Ferran, P. Ballester, E. Palomares  
Type of Presentation: Oral Communication  
Meeting: 22nd Conference on Organometallic Chemistry (EuCOMC XXII)  
Publication:  
Meeting Place: Amsterdam (The Netherlands)  
Year: 2017

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Title: "New Strategies in Supramolecular Catalysis: Halogen-Bond Assembled Catalysts", Flash Presentation FL10  
Authors: L. Carreras  
Type of Presentation: Flash Presentation  
Meeting: II ICIQ PhD Day  
Publication:  
Meeting Place: Tarragona (Spain)  
Year: 2018

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Title: "Towards Efficient Metal-catalyzed [4+4]-Cycloaddition Reactions", poster P07  
Authors: N. Llorente  
Type of Presentation: Poster  
Meeting: II ICIQ PhD Day  
Publication:  
Meeting Place: Tarragona (Spain)  
Year: 2018

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Title: "Towards Efficient Metal-catalyzed [4+4]-Cycloaddition Reactions", oral communication SO-95  
Authors: N. Llorente, H. Fernández-Pérez, A. Vidal-Ferran  
Type of Presentation: Oral Communication  
Meeting: 22<sup>nd</sup> International Conference on Phosphorus Chemistry (XXII ICPC)  
Publication:  
Meeting Place: Budapest (Hungary)  
Year: 2018

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Title: "New Strategies in Supramolecular Catalysis: Halogen-Bond Assembled Catalysts", oral communication SO-96  
Authors: L. Carreras, A. Vidal-Ferran  
Type of Presentation: Oral Communication  
Meeting: 22<sup>nd</sup> International Conference on Phosphorus Chemistry (XXII ICPC)  
Publication:  
Meeting Place: Budapest (Hungary)  
Year: 2018

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(The name/s of the presenting author/s is/are underlined)

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Title: "Cationic Regulated Supramolecular Catalysts: Highly Enantioselective Hydroformylations and Mechanistic Insights", oral communication SO-97  
Authors: A. Martínez-Carrión, A. Vidal-Ferran  
Type of Presentation: Oral Communication  
Meeting: 22<sup>nd</sup> International Conference on Phosphorus Chemistry (XXII ICPC)  
Publication:  
Meeting Place: Budapest (Hungary)  
Year: 2018

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Title: "Towards Efficient Metal-catalyzed [4+4]-Cycloaddition Reactions", poster P3  
Authors: N. Llorente, H. Fernández-Pérez, A. Vidal-Ferran  
Type of Presentation: Poster  
Meeting: ICIQ-INTECAT School  
Publication:  
Meeting Place: Montbrió del Camp, Tarragona (Spain)  
Year: 2018

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Title: "Variable Time Normalization Analysis for Kinetic Treatments of Supramolecularly Regulates Asymmetric Hydroformylation", poster P17  
Authors: A. Martínez-Carrión, R. W. Adams, J. Burés, A. Vidal-Ferran  
Type of Presentation: Poster  
Meeting: ICIQ-INTECAT School  
Publication:  
Meeting Place: Montbrió del Camp, Tarragona (Spain)  
Year: 2018

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Title: "Supramolecularly Regulated Copper-Bisoxazoline Catalysts for the Efficient Insertion of Carbenoid Species into Hydroxyl Bonds", poster PO-60  
Authors: E. Iniesta, A. Vidal-Ferran  
Type of Presentation: Poster  
Meeting: 21st European Symposium on Organic Chemistry (ESOC2019)  
Publication:  
Meeting Place: Vienna (Austria)  
Year: 2019

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Title: "Cationic Regulated Supramolecular Catalysts: Highly Enantioselective Hydroformylations of Unypical Substrates and Mechanistic Insights via Operando Spectroscopy", oral communication OP15  
Authors: A. Martínez-Carrión, A. Vidal-Ferran  
Type of Presentation: Poster  
Meeting: IX Reunión de Química Orgánica del Mediterraneo (REQOMED)  
Publication:  
Meeting Place: Murcia (Spain)  
Year: 2019

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Title: "Counterion Effects in Pincer-Type Halogen Bond assembled Rh(I) Complexes in the Hydroboration of Terminal Alkynes", poster and oral communication, Communication 21  
Authors: A. Martínez-Bascuñana, A. Vidal-Ferran  
Type of Presentation: Poster (Poster Prize "Honourable Mention")  
Meeting: ISXB4; 4<sup>th</sup> International Symposium on Halogen Bonding  
Publication:  
Meeting Place: Virtual Symposium  
Year: 2020

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(The name/s of the presenting author/s is/are underlined)

## Invited Lectures

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Title: "Homoquiral 3-Amino-1,2 diols. A New Class of Ligands for Catalytic Asymmetric Synthesis"

Type of Presentation: Invited Lecture

Meeting: CERC3 Workshop on Catalytic Asymmetric Synthesis

Meeting Place: Dublin (Ireland)

Year: 1996

Order: 001

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Title: "Covalent and Supramolecular Modular Approaches to Asymmetric Catalysis"

Type of Presentation: Invited Lecture

Meeting: 3<sup>rd</sup> International Forum on Homogeneous Catalysis and 1<sup>st</sup> China-Spain Bilateral Symposium on Catalysis

Meeting Place: Shanghai (China)

Year: 2008

Order: 002

---

Title: "Highly Modular P-OP and P-N Ligands for Asymmetric Catalysis"

Type of Presentation: Invited Lecture

Meeting: Seminar program of the "Institut für Umweltverfahrenstechnik der Universität Bremen"

Meeting Place: Bremen (Germany)

Year: 2008

Order: 003

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Title: "Highly Modular P-OP Ligands for Asymmetric Catalysis"

Type of Presentation: Invited Lecture

Meeting: 74th Meeting of the Israel Chemical Society

Meeting Place: Tel-Aviv (Israel)

Year: 2009

Order: 004

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Title: "Highly Modular P-OP Ligands for Asymmetric Catalysis"

Type of Presentation: Invited Lecture

Meeting: Seminar program of the Department of Chemistry of the University of Oxford

Meeting Place: Oxford (United Kingdom)

Year: 2009

Order: 005

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Title: "Highly Modular P-OP Ligands for Asymmetric Catalysis"

Type of Presentation: Invited Lecture

Meeting: Seminar program of the Chemical Laboratory of the University of Cambridge

Meeting Place: Cambridge (United Kingdom)

Year: 2009

Order: 006

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Title: "Highly Modular P-OP Ligands for Asymmetric Catalysis"

Type of Presentation: Invited Lecture

Meeting: Seminar program of the Department of Chemistry of the University of Temple

Meeting Place: Philadelphia (USA)

Year: 2009

Order: 007

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Title: "Highly Modular P-OP Ligands for Asymmetric Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of the University of Pennsylvania  
Meeting Place: Philadelphia (USA)  
Year: 2009  
Order: 008

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Title: "Highly Modular P-OP Ligands for Asymmetric Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of the University of Lincoln-Nebraska  
Meeting Place: Lincoln (USA)  
Year: 2009  
Order: 009

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Title: "Highly Modular P-OP Ligands for Asymmetric Hydrogenation"  
Type of Presentation: Invited Lecture  
Meeting: 237th ACS National Meeting  
Meeting Place: Salt Lake City (USA)  
Year: 2009  
Order: 010

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Title: "Highly Modular P-OP Ligands for Asymmetric Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of the University of British-Columbia  
Meeting Place: Vancouver (Canada)  
Year: 2009  
Order: 011

---

Title: "Highly Modular P-OP Ligands for Asymmetric Hydrogenation"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of the Universitat de Barcelona  
Meeting Place: Barcelona (Spain)  
Year: 2009  
Order: 012

---

Title: "Highly Modular P-OP Ligands for Asymmetric Hydrogenation"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Institute of Elemento-organic Chemistry of Nankai University  
Meeting Place: Nankai (China)  
Year: 2010  
Order: 013

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Title: "Highly Modular P-OP Ligands for Asymmetric Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: 1st Annual World Congress of Catalytic Asymmetric Synthesis (WCCAS 2010)  
Meeting Place: Beijing (China)  
Year: 2010  
Order: 014

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Title: "Highly Efficient Ligands for Asymmetric Hydrogenation"  
Type of Presentation: Invited Lecture  
Meeting: Red CASI Meeting (Spanish Network for Asymmetric Catalysis)  
Meeting Place: Palma de Mallorca (Spain)  
Year: 2010  
Order: 015

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Title: "Highly Modular P-OP Ligands for Asymmetric Hydrogenation"  
Type of Presentation: Invited Lecture  
Meeting: International Chemical Congress of Pacific Basin Societies (PACIFICHEM 2010)  
Meeting Place: Honolulu (Hawaii)  
Year: 2010  
Order: 016

---

Title: "Highly Modular P-OP Ligands for Asymmetric Hydrogenation"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the ICMAB (Institut de Ciència de Materials de Barcelona)  
Meeting Place: Barcelona (Spain)  
Year: 2011  
Order: 017

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Title: "Highly Modular P-OP Ligands in Asymmetric Hydrogenation: From Model Substrates to Target Molecules"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of the University of Emory  
Meeting Place: Atlanta (USA)  
Year: 2012  
Order: 018

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Title: "Application of Highly Modular P-OP Ligands in Asymmetric Hydrogenation"  
Type of Presentation: Invited Lecture  
Meeting: 243rd ACS National Meeting  
Meeting Place: San Diego (USA)  
Year: 2012  
Order: 019

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Title: "Application of Highly Modular P-OP Ligands in Asymmetric Hydrogenation"  
Type of Presentation: Invited Lecture  
Meeting: 3rd Annual World Congress of Catalytic Asymmetric Synthesis (WCCAS 2012)  
Meeting Place: Beijing (China)  
Year: 2012  
Order: 020

---

Title: "Highly Modular P-OP Ligands in Asymmetric Hydrogenation: From Model Substrates to Target Molecules"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry and Biotechnology of the University of Tokyo  
Meeting Place: Tokyo (Japan)  
Year: 2012  
Order: 021

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Title: "Highly Modular P-OP Ligands in Asymmetric Hydrogenation: From Model Substrates to Target Molecules"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Tokyo Institute of Technology  
Meeting Place: Tokyo (Japan)  
Year: 2012  
Order: 022

---

Title: "Rhodium and Iridium-P-OP Complexes in Asymmetric Hydrogenations"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Material Chemistry of the University of Kyoto  
Meeting Place: Kyoto (Japan)  
Year: 2012  
Order: 023

---

Title: "Modular approaches to asymmetric catalysis"  
Type of Presentation: Invited Lecture  
Meeting: 21st IUPAC Conference on Physical Organic Chemistry (ICPOC 21)  
Meeting Place: Durham (United Kingdom)  
Year: 2012  
Order: 024

---

Title: "Modular Approaches to Asymmetric Analysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of the University of Bath  
Meeting Place: Bath (United Kingdom)  
Year: 2013  
Order: 025

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Title: "Phosphine-Phosphite Ligands in Rh- and Ir-mediated Asymmetric Hydrogenations"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Centre for Theoretical and Computational Chemistry (CTCC) of the University of Tromsø  
Meeting Place: Tromsø (Norway)  
Year: 2013  
Order: 026

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Title: "Towards's API's Intermediates by Rhodium- and Iridium-mediated Asymmetric Hydrogenation"  
Type of Presentation: Invited Lecture  
Meeting: Nippon Chemical Industrial Co., Ltd., Research and Development Division  
Meeting Place: Tokyo (Japan)  
Year: 2013  
Order: 027

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Title: "Highly Modular P-OP Ligands in Rhodium and Iridium-mediated Asymmetric Hydrogenations"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Applied Chemistry, Faculty of Engineering, Osaka University  
Meeting Place: Osaka (Japan)  
Year: 2013  
Order: 028

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Title: "Modularity and Distal Regulation in Enantiopure P-Ligands for Catalytic Efficiency in Asymmetric Hydrogenations and Hydroformylations"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry and Biochemistry of the University of Texas at Austin  
Meeting Place: Austin (USA)  
Year: 2014  
Order: 029

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Title: "Modularity and Distal Regulation in Enantiopure P-Ligands for Catalytic Efficiency in Asymmetric Hydrogenations and Hydroformylations"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of the University of Wisconsin-Madison  
Meeting Place: Madison (USA)  
Year: 2014  
Order: 030

---

Title: "Modularity and Distal Regulation in Enantiopure P-Ligands for Catalytic Efficiency in Asymmetric Hydrogenations and Hydroformylations"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of the University of Michigan  
Meeting Place: Ann Arbor (USA)  
Year: 2014  
Order: 031

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Title: "[Ir(P-OP)]-Mediated Asymmetric Hydrogenation of Diversely Substituted C=N-Containing Heterocycles"  
Type of Presentation: Invited Lecture  
Meeting: 247th ACS National Meeting  
Meeting Place: Dallas (USA)  
Year: 2014  
Order: 032

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Title: "Design, Synthesis, and Application of Enantiopure Ligands with a Distal Regulation Site in Diverse Asymmetric Transformations"  
Type of Presentation: Invited Lecture  
Meeting: 247th ACS National Meeting  
Meeting Place: Dallas (USA)  
Year: 2014  
Order: 033

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Title: "Design, Synthesis and Application of Enantiopure Ligands with a Distal Regulation Site in Asymmetric Transformations"  
Type of Presentation: Invited Lecture  
Meeting: 20th International Conference on Phosphorus Chemistry (ICPC 2014)  
Meeting Place: Dublin (Ireland)  
Year: 2014  
Order: 034

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Title: "Catalysis for the Synthesis of Important Complex Molecular Structures"  
Type of Presentation: Invited Lecture  
Meeting: Joint Symposium Technion-ICIQ  
Meeting Place: Tarragona (Spain)  
Year: 2015  
Order: 035

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Title: "Highly Modular P-OP and Supramolecularly Regulated Ligands for Asymmetric Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Materials Engineering Science of Osaka University  
Meeting Place: Osaka (Japan)  
Year: 2015  
Order: 036

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Title: "Efficient Ligand Platforms for Asymmetric Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: 7th International Conference on Green and Sustainable Chemistry (GSC-7) and 4<sup>th</sup> JACI/GSC Symposium  
Meeting Place: Tokyo (Japan)  
Year: 2015  
Order: 037

---

Title: "Highly Modular Phosphine-Phosphites and Supramolecularly Regulated Ligands for Asymmetric Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of Kyushu University  
Meeting Place: Fukuoka (Japan)  
Year: 2015  
Order: 038

---

Title: "Efficient Ligand Platforms for Asymmetric Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Applied Chemistry of Hiroshima University  
Meeting Place: Higashi-Hiroshima (Japan)  
Year: 2015  
Order: 039

---

Title: "Highly Modular P-OP and Supramolecularly Regulated Ligands for Asymmetric Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Applied Chemistry of Ehime University  
Meeting Place: Matsuyama (Japan)  
Year: 2015  
Order: 040

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Title: "Non-natural Allosteric Catalysts for Asymmetric Transformations"  
Type of Presentation: Invited Lecture  
Meeting: International Symposia on Advancing the Chemical Sciences (ISACS18)  
Meeting Place: Bangalore (India)  
Year: 2015  
Order: 041

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Title: "Supramolecularly Regulated Ligands in Asymmetric Transformations"  
Type of Presentation: Invited Lecture  
Meeting: International Chemical Congress of Pacific Basin Societies (PACIFICHEM)  
Meeting Place: Honolulu (Hawaii)  
Year: 2015  
Order: 042

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Title: "Efficient Ligand Platforms for Enantioselective Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the van't Hoff Institute for Molecular Sciences (HIMS) of the University of Amsterdam  
Meeting Place: Amsterdam (The Netherlands)  
Year: 2016  
Order: 043

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Title: "Efficient Ligand Platforms for Transition Metal-Mediated Enantioselective Transformations"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Universidad del País Vasco  
Meeting Place: Leioa (Spain)  
Year: 2016  
Order: 044

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Title: "Rh-P-OP and Ir-P-OP-Mediated Asymmetric Hydrogenations: Beyond Typical Substrates"  
Type of Presentation: Keynote Lecture  
Meeting: 21st International Conference on Phosphorus Chemistry (ICPC 2016)  
Meeting Place: Kazan (Russia)  
Year: 2016  
Order: 045

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Title: "Efficient Enantioselective Catalysts for C-H and C-C Bond Forming Reactions"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the École Supérieure de Physique et de Chimie Industrielles de la Ville de Paris (ESPCI Paris)  
Meeting Place: Paris (France)  
Year: 2016  
Order: 046

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Title: "Efficient Ligand Platforms from our Group for Enantioselective Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: "CulturChem" Seminar program of the École Doctorale Chimie Moléculaire Paris Centre  
Meeting Place: Paris (France)  
Year: 2016  
Order: 047

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Title: "Supramolecularly Fine-regulated Enantioselective Catalysts"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Institut Parisien de Chimie Moléculaire (IPCM) of the Université Pierre et Marie Curie  
Meeting Place: Paris (France)  
Year: 2016  
Order: 048

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Title: "Efficient Ligand Platforms from our Group for Enantioselective Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the School of Physical and Mathematical Sciences of Nanyang Technological University (Singapore)  
Meeting Place: Singapore  
Year: 2017  
Order: 049

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Title: "Supramolecularly Regulated Enantioselective Catalysts for C-H, C-C and C-X Bond Forming Reactions"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Faculty of Sciences of the National University of Singapore  
Meeting Place: Singapore  
Year: 2017  
Order: 050

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Title: "Efficient Ligand Platforms from our Group for Enantioselective Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Hong Kong University of Science and Technology  
Meeting Place: Hong Kong (China)  
Year: 2017  
Order: 051

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Title: "Efficient Enantioselective Catalysts for C-H and C-C Bond Forming Reactions"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of the University of Hong Kong  
Meeting Place: Hong Kong (China)  
Year: 2017  
Order: 052

---

Title: "Efficient Ligand Platforms from our Group for Enantioselective Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Beijing National Laboratory for Molecular Sciences of the Institute of Chemistry of the Chinese Academy of Sciences (CAS)  
Meeting Place: Beijing (China)  
Year: 2017  
Order: 053

---

Title: "Efficient Enantioselective Catalysts for C-H and C-C Bond Forming Reactions"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Center of Basic Molecular Science (CBMS) of Tsinghua University  
Meeting Place: Beijing (China)  
Year: 2017  
Order: 054

---

Title: "Efficient Enantioselective Catalytic Tools for Challenging Hydrogenative Transformations"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the College of Chemistry and Molecular Engineering of Peking University  
Meeting Place: Beijing (China)  
Year: 2017  
Order: 055

---

Title: "Rh-P-OP and Ir-P-OP-Mediated Asymmetric Hydrogenations: Beyond Typical Substrates"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the College of Chemistry & Materials Science of Northwest University (Xian)  
Meeting Place: Xian (China)  
Year: 2017  
Order: 056

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Title: "Efficient Enantioselective Catalysts for C-H and C-C Bond Forming Reactions"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of the University of Massachusetts Boston  
Meeting Place: Boston (USA)  
Year: 2017  
Order: 057

---

Title: "Efficient Ligand Platforms from our Group for Enantioselective Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of Boston College  
Meeting Place: Boston (USA)  
Year: 2017  
Order: 058

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Title: "Efficient Ligand Platforms from our Group for Enantioselective Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: VIII REQOMED – Reunión de Química Orgánica del Mediterráneo  
Meeting Place: Palma de Mallorca (Spain)  
Year: 2017  
Order: 059

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Title: "Efficient Enantioselective Catalysts for C-H and C-C Bond Forming Reactions"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the School of Chemistry of Dublin University College  
Meeting Place: Dublin (Ireland)  
Year: 2018  
Order: 060

---

Title: "Rh-P-OP and Ir-P-OP-Mediated Asymmetric Hydrogenations: Beyond Typical Substrates"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Organic Chemistry of the University of Stockholm  
Meeting Place: Stockholm (Sweden)  
Year: 2018  
Order: 061

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Title: "Supramolecular Catalysts for Stereoselective C-H, C-C and C-B Bond Forming Reactions"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of State Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences  
Meeting Place: Shanghai (China)  
Year: 2018  
Order: 062

---

Title: "Supramolecularly Regulated Enantioselective Catalysts"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of Fudan University  
Meeting Place: Shanghai (China)  
Year: 2018  
Order: 063

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Title: "Efficient Ligand Platforms from our Group for Enantioselective Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the School of Chemistry and Chemical Engineering, Shanghai Jiao Tong University  
Meeting Place: Shanghai (China)  
Year: 2018  
Order: 064

---

Title: "Supramolecularly Regulated Enantioselective Catalysts"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of Seoul National University  
Meeting Place: Seoul (Korea)  
Year: 2018  
Order: 065

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Title: "Efficient Ligand Platforms from our Group for Enantioselective Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of Hanyang University  
Meeting Place: Seoul (Korea)  
Year: 2018  
Order: 066

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Title: "Efficient Ligand Platforms from our Group for the Stereoselective Formation of C-H, C-B and C-C Bonds"  
Type of Presentation: Plenary Lecture  
Meeting: 22<sup>nd</sup> International Conference on Phosphorus Chemistry  
Meeting Place: Budapest (Hungary)  
Year: 2018  
Order: 067

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Title: "Efficient Stereoselective Catalyst Platforms from the Group for Transformations of Interest"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the CAT Catalytic Center of RWTH Aachen University  
Meeting Place: Aachen (Germany)  
Year: 2019  
Order: 068

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Title: "Efficient Catalytic Systems from our Group for the Stereoselective Formation of C-H, C-B and CC Bonds"  
Type of Presentation: Invited Lecture  
Meeting: 19<sup>th</sup> Global Chemistry, Chromatography & Spectrometry Conference  
Meeting Place: New York (USA)  
Year: 2019  
Order: 069

---

Title: "Stereoselective Catalysts for C-H, C-B and C-C Bond-Forming Reactions"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Department of Chemistry of the City College of New York  
Meeting Place: New York (USA)  
Year: 2019  
Order: 070

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Title: "Efficient Catalytic Systems for the Stereoselective Formation of C-H, C-B and C-C Bonds"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of Bowdoin College  
Meeting Place: Brunswick (USA)  
Year: 2019  
Order: 071

---

Title: "Supramolecular Catalytic Systems for the (Stereo)selective Formation of C-H, C-B and C-C Bonds"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of Leibniz-Institut für Katalyse e.V. of Universität Rostock  
Meeting Place: Rostock (Germany)  
Year: 2019  
Order: 072

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Title: "Halogen Bonding and Ion-Dipole Interactions as Tools for Constructing Transition Metal-Based Catalysts"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of the Institute of Chemistry and Biochemistry of the "Freie Universität Berlin"  
Meeting Place: Berlin (Germany)  
Year: 2019  
Order: 073

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Title: "Supramolecular Stereoselective Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: XXXVII Biennial meeting of the Spanish Royal Society of Chemistry (RSEQ)  
Meeting Place: Donostia (Spain)  
Year: 2019  
Order: 074

---

Title: "Efficient Ligand Platforms from our Group for Enantioselective Catalysis"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of Wroclaw University of Science and Technology (WUT), Faculty of Chemistry  
Meeting Place: Wroclaw (Poland)  
Year: 2019  
Order: 075

---

Title: "Halogen Bonding and Ion-dipole Interactions in Low Polarity Solvents as Tools for Constructing (Stereo)selective Catalysts"  
Type of Presentation: Invited Lecture  
Meeting: Seminar program of Ruhr Universität Bochum, Fakultät für Chemie und Biochemie, Organische Chemie I  
Meeting Place: Bochum (Germany)  
Year: 2019  
Order: 076

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Title: "Halogen Bonding and Ion-dipole Interactions as Tools for Constructing Stereoselective Catalysts"  
Type of Presentation: Keynote Lecture  
Meeting: 1<sup>st</sup> International Conference on Noncovalent Interactions (ICNI 2019)  
Meeting Place: Lisbon (Portugal)  
Year: 2019  
Order: 077

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Title: "Halogen bonding as tools for constructing stereoselective catalysts"  
Type of Presentation: Keynote Lecture  
Meeting: ISXB 4; 4<sup>th</sup> International Symposium on Halogen Bonding  
Meeting Place: Virtual Symposium  
Year: 2020  
Order: 078

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## PhD Thesis Supervised

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Title: "Nuevos Ligandos para Catálisis Enantioselectiva Derivados de 3-Amino-1,2-Dioles Enantioméricamente Puros" ("New Ligands for Enantioselective Catalysis derived from 3-Amino-1,2-Diols Enantiomerically Pure")

Ph. D. Student: M<sup>a</sup>Cristina Puigjaner Vallet

University: Universitat de Barcelona

Faculty/School: Department of Organic Chemistry  
(PhD Program: "Organic Chemistry – Fundamental Chemistry")

Date: 28<sup>th</sup> July 2000

Order: 01

---

Title: "Modular Phosphinooxazolines: Synthesis and Evaluation in Allylic Substitutions"

Ph. D. Student: Dana Popa Madeleine

University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Date: 17<sup>th</sup> September 2008

Order: 02

---

Title: "Towards Highly Efficient Ligands for Asymmetric Hydrogenations: a Covalent Modular Approach and Investigations into Bio-inspired Supramolecular Strategies"

Ph. D. Student: Héctor Fernández Pérez

University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Date: 1<sup>st</sup> September 2009

Order: 03

---

Title: "Transfer of Chirality in New Supramolecular Complexes as Design Principle for Future Asymmetric Catalysts"

Ph. D. Student: Helmut Degenbeck

University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Year: 25<sup>th</sup> July 2011

Order: 04

---

Title: "Highly Modular P-OP Ligands for Rhodium- and Iridium-mediated Asymmetric Hydrogenations"

Ph. D. Student: José Luis Núñez Rico

University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Year: 13<sup>th</sup> June 2013

Order: 05

---

Title: "Asymmetric Epoxidation of Unfunctionalised Alkenes Catalysed by D-Fructose Derivatives"

Ph. D. Student: Natalia Nieto Alonso

University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Year: 26<sup>th</sup> September 2013

Order: 06

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Title: "Design, Synthesis and Application of Supramolecular Ligands in Asymmetric Hydrogenation and Hydroformylation"

Ph. D. Student: Ignacio Mon Quílez  
University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Year: 14<sup>th</sup> May 2014  
Order: 07

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Title: "Design and Application of Bisphosphite Ligands with a Distal Regulation Site for Asymmetric Catalysis"

Ph. D. Student: Laura Rovira González  
University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Date: 17<sup>th</sup> June 2016  
Order: 08

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Title: "Development of P-OP Ligands with New Structural Motifs for Rhodium- and Iridium- Mediated Asymmetric Hydrogenations"

Ph. D. Student: Balakrishna Bugga  
University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Date: 9<sup>th</sup> September 2016  
Order: 09

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Title: "Rhodium Catalysis in Enantioselective Hydrogenative Transformations: From the Design of New Ligands to Reactions of Atypical Substrates"

Ph. D. Student: Joan Ramon Lao Mulinari  
University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Date: 31<sup>st</sup> October 2017  
Order: 10

---

Title: "Supramolecular Catalysis: Halogen Bonding and Regulation Strategies Applied to Hydroboration and C-H Functionalization Reactions"

Ph. D. Student: Lucas Carreras Vinent  
University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Date: 17<sup>th</sup> July 2019  
Order: 11

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Title: "The Hydroformylation Reaction: from Covalent to Supramolecular Approaches and *Operando* Kinetic Studies"

Ph. D. Student: Alicia Martínez Carrión  
University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Date: 13<sup>th</sup> July 2020  
Order: 12

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## PhD Thesis under Supervision

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Title: "Enantioselective Catalysts for Intra- and Intermolecular (4+4) Cycloaddition Reactions"

Ph. D. Student: Nuria Llorente González  
University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Year: 2016 - PhD defense due in 2021

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Title: "Supramolecularly Regulated Bisoxazoline and Related Ligands and Application in Enantioselective Catalysis"

Ph. D. Student: Ester Iniesta Beteta  
University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Year: 2016 - PhD defense due in 2021

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Title: Regio- and Stereo-Regulated Supramolecular Catalysts for Hydroformylation Reactions"

Ph. D. Student: Andrés Romero Navarro  
University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Year: 2017 - PhD defense due in 2022

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Title: Halogen-Bonded Metal Complexes as Stereoselective Catalysts for Transformations of Interest

Ph. D. Student: Alba Martínez Bascuñana  
University: University of Barcelona

Faculty/School: Faculty of Chemistry. Department of Inorganic and Organic Chemistry

Year: 2018 - PhD defense due in 2023

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Title: Design and Synthesis of New MOFs as New Functional Chiral Materials

Ph. D. Student: Juan José Cabezas Giménez  
University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Year: 2018 - PhD defense due in 2023

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## Bachelor and Master Thesis Supervised

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Title: "Phosphinooxazoline Palladium Complexes in Asymmetric Allylic Alkylation Reactions"

Student: Dana Popa

University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Program: DEA Program

Year: 2006

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Title: "Design of Supramolecular Ligands and Asymmetric Catalysis Applications"

Student: Sílvia Serres Prades

University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Program: DEA Program

Year: 2007

---

Title: "Design of Supramolecular Ligands for Asymmetric Catalysis"

Student: Helmut Degenbeck

University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Program: Master in Catalysis

Year: 2007

---

Title: "Towards New Asymmetric Catalysts and Receptors with Allosteric Modulation"

Student: Ignacio Mon Quílez

University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Program: Master in Synthesis and Catalysis

Year: 2010

---

Title: "Iridium-catalyzed Asymmetric Hydrogenation of Acyclic Imines and Quinolines: Exploring the Potential of Highly Modular P-OP Ligands"

Student: José Luis Núñez Rico

University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Program: Master in Synthesis and Catalysis

Year: 2010

---

Title: "Preparation of Enantiomerically Pure 1,1-Phosphine-Phosphites, Preliminary Studies in Asymmetric Hydrogenation"

Student: Carmen M<sup>a</sup> Fernández Posada

University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Program: Master in Synthesis and Catalysis

Year: 2012

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Title: "Preparation of Cationic Rhodium Complexes Derived from 1,1-P\*-OP Ligands for Asymmetric Hydrogenations"

Student: Joan Ramon Lao Mulinari

University: Universitat Rovira i Virgili

Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry

Program: Master in Synthesis and Catalysis

Year: 2013

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Title: "Nickel Mediated [4+4] Cycloadditions: Towards Supramolecularly Regulated Catalysis"  
Student: Nuria Llorente González  
University: Universitat Rovira i Virgili  
Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry  
Program: Master in Synthesis, Catalysis and Molecular Design  
Year: 2016

---

Title: "Synthesis and Characterization of Novel Transition-Metal Catalysts Based on Halogen-Bonding"  
Student: Alba Martínez Bascañana  
University: Universitat Rovira i Virgili  
Faculty/School: Faculty of Chemistry. Department of Analytical and Organic Chemistry  
Program: Master in Synthesis, Catalysis and Molecular Design  
Year: 2018

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Title: "Halogen Bonding in Supramolecular Catalysis"  
Student: Davor Castaño Duro  
University: Universitat de Barcelona  
Faculty/School: Faculty of Chemistry. Department of Inorganic and Organic Chemistry  
Program: Bachelor Thesis  
Year: 2020

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## Visiting Students and Scientists

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Name: Felix Rudolphi  
Category: PhD student  
University: Technische Universität Kaiserslautern  
Dates: February – May 2009

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Name: Álex de la Fuente Cebrián  
Category: ICIQ Summer Fellow  
University: Institut Químic de Sarrià, Universitat Ramon Llull  
Dates: July – September 2009

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Name: Carmen M<sup>a</sup> Fernández Posada  
Category: ICIQ Summer Fellow  
University: Universidad Complutense de Madrid  
Dates: July – September 2011

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Name: Pilar Pardo Abadía  
Category: PhD student  
University: Universidad de Zaragoza  
Dates: July – August 2011

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Name: Marino Rolando Börjesson Carazo  
Category: ICIQ Summer Fellow  
University: Universidad de Granada  
Dates: July – September 2013

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Name: Alaric Desmarchelier  
Category: Post-doctoral researcher  
University: Université Pierre et Marie Curie Paris 6  
Dates: April 2015

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Name: Dominik Lichte  
Category: Erasmus student  
University: Technische Universität Dortmund  
Dates: September 2015 – February 2016

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Name: José Navarro Sánchez  
Category: Visiting student within his PhD program  
University: Universidad de Valencia, Institute of Molecular Science (ICMOL)  
Dates: March 2019

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Name: Florence Oluwayemisi Babawale  
Category: Erasmus student  
University: Universität Regensburg, Germany  
Dates: August 2019 – September 2019

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## Teaching and Participation in Undergraduate Studies

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**Institution:** CETS Institut Químic de Sarrià, Barcelona

**Year:** 1995-1996

**Description:** Lecturer of the subject "Determinación estructural y análisis instrumental (Structural Determination and Instrumental Analysis), 5<sup>th</sup> year of the Chemical Engineering Studies (Organic and Analysis Divisions).

---

**Institution:** CETS Institut Químic de Sarrià, Barcelona

**Year:** 1996-1997

**Description:** Lecturer of the subject "Determinación estructural y análisis instrumental (Structural Determination and Instrumental Analysis), 5<sup>th</sup> year of the Chemical Engineering Studies (Organic and Analysis Divisions).

---

**Institution:** CETS Institut Químic de Sarrià, Barcelona

**Year:** 1997-1998

**Description:** Lecturer of the subject "Determinación estructural y análisis instrumental (Structural Determination and Instrumental Analysis), 5<sup>th</sup> year of the Chemical Engineering Studies (Organic and Analysis Divisions).

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**Institution:** CETS Institut Químic de Sarrià, Barcelona

**Year:** 1998-1999

**Description:** Lecturer of the subject "Determinación estructural y análisis instrumental (Structural Determination and Instrumental Analysis), 5<sup>th</sup> year of the Chemical Engineering Studies (Organic and Analysis Divisions).

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**Institution:** Department of Inorganic and Organic Chemistry, Faculty of Chemistry, University of Barcelona

**Year:** 2019-2020

**Description:** Lecturer of the experimental subject "Basic Inorganic Experimental Laboratory" within the Chemistry studies.

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## Teaching and Participation in Former Doctoral Programs and Masters Studies

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**Institution:** Interuniversity PhD Program (Un. Jaume I, Un. Castilla la Mancha, Un. Com. Mad., Un. Cor., Un. Pol. Val., Un. Nav., Un. Zar., ICIQ, CSIC, In. Un. Ci. Tec.)

**Year:** 2004-2005

**Description:** Participation in the lecturing of the subject "Enantioselective Catalysis" of the Interuniversity PhD Program "Sustainable Chemistry".

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**Institution:** University of Bilbao

**Year:** 2005-2006

**Description:** Participation in the lecturing of the subject "Enantioselective Catalysis" of the PhD program "Estudios Avanzados en Química Orgánica Fundamental y Aplicada" from the Universidad del País Vasco.

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**Institution:** Interuniversity PhD Program (Un. Jaume I, Un. Castilla la Mancha, Un. Com. Mad., Un. Cor., Un. Pol. Val., Un. Nav., Un. Zar., ICIQ, CSIC, In. Un. Ci. Tec.)

**Year:** 2005-2006

**Description:** Main responsible in the lecturing of the subject "Enantioselective Catalysis" of the Interuniversity PhD Program "Sustainable Chemistry".

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**Institution:** University "Rovira i Virgili"

**Year:** 2005-2006

**Description:** Main responsible in the lecturing of the subject "Advanced Nuclear Magnetic Resonance Spectroscopy" of the PhD Program "Chemistry in Industrial Processes and Products".

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**Institution:** University "Rovira i Virgili"

**Year:** 2006 – 2007

**Description:** Main responsible in the lecturing of the subject "Advanced Nuclear Magnetic Resonance Spectroscopy".

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**Institution:** Interuniversity PhD Program (Un. Jaume I, Un. Castilla la Mancha, Un. Com. Mad., Un. Cor., Un. Pol. Val., Un. Nav., Un. Zar., ICIQ, CSIC, In. Un. Ci. Tec.)

**Year:** 2006-2007

**Description:** Participation in the lecturing of the subject "Enantioselective Catalysis" of the Interuniversity PhD Program "Sustainable Chemistry".

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**Institution:** University "Rovira i Virgili" and ICIQ

**Year:** 2014 - 2015

**Description:** Coordinator of the subject "Structural Determination Techniques" and lecturer of NMR spectroscopy in the Master in "Synthesis, Catalysis and Molecular Design".

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**Institution:** Department of Inorganic and Organic Chemistry, Faculty of Chemistry, University of Barcelona

**Year:** 2020 - 2021

**Description:** Lecturer of the subject "Applied Organometallic Chemistry" in the Master in "Applied Materials Chemistry".

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## Organization of R+D Activities Experience

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Title: Supramolecular Approaches to Catalysis

Type of Activity: Conference

Area: Worldwide

Date: 02/03/2008-05/03/2008

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Title: Aldrich-ICIQ Minisymposium in Organometallic Chemistry

Type of Activity: Conference

Area: National

Date: 06/11/2008

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## Other Merits (in one DIN A4 page only)

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- “Human Capital and Mobility” Fellow at the University of Cambridge Chemical Laboratory, UK (1993 – 1994)
- Visiting Scientist at the Central Research Division of BAYER AG, Leverkusen, Germany (1999 – 2000)
- Research Group has been receiving the “Consolidated Research Group” status from the Catalan Agency for Academic Research (from 2004)
- Honorary member of the Israel Chemical Society (from 2009)
- Fellow of the Royal Society of Chemistry (FRSC, from 2014)
- Member of the steering committee of the “International Conference on Phosphorus Chemistry” (from 2014)
- Visiting Professor at the Institut Parisien de Chimie Moléculaire (IPCM) of the “Université Pierre et Marie Curie”, Paris (2016)
- Visiting Professor at the Institute of Chemistry and Biochemistry of the “Freie Universität Berlin” (2019)
- Member of the “Junta Directiva de la Societat Catalana de Química” (Board of the Catalan Society of Chemistry) (2020)
- Representative of the “Societat Catalana de Química, SCC” (Catalan Society of Chemistry) in the Board of the Division of Organic Chemistry of EuChemS.