

1. Basic Information.

1.1. Personal Data.

Family Name: Garcia-Verdugo **Name:** Eduardo **PASSPORT Nº:** 19888710-

E-mail: cepeda@uji.es

PRESENT EMPLOYER: University Jaume I, Departamento de Química Inorgánica y Orgánica.

POSITION TITLE: Profesor Titular de Universidad ("Lecture")

1.2. Education and Teaching and Research Positions.

06/1995 Degree in Organic Chemistry from *University of Valencia*, Valencia, Spain

10/1995-09/1996 Research as "Praktikant" for Degussa AG, *Host Institution:* Degussa AG. *Department of R&D in water soluble polymer* *Supervisor:* Dr. Kiersey.

03/1998 Minor Thesis, *University Jaume I, Castellón, Spain*, Subject: "Synthesis of Functional Polymers through Polymerization Procedures" Directed by *Prof. Dr. Santiago V. Luis*, Mark: Sobresaliente (highest grade possible).

07/2000-09/2000 Invited Research in the Organic Department of the University of Oldenburg, Germany. *Host Institution:* Oldenburg University, Germany. *Supervisor:* Prof. Dr J. Martens.

09/2000 Diploma of Advanced Studies (Suficiencia Investigadora), University Jaume I, Castellon Spain.

03/2001 PhD Thesis in Chemistry, *University Jaume I, Castellón, Spain*, Subject: "Development of supported catalysts bearing chiral auxiliaries derived from aminoacids". Directed by *Prof. Dr. Santiago V. Luis*, Mark: *Cum Laude* (with the accreditation of European Doctor).

09/2000-09/2004 Profesor Asociado a tiempo parcial (Part time teaching assistant) in Organic Chemistry, Institution: University of Jaume I Castellon (Spain).

03/2001-09/2001 6-month Visit to Nottingham as part of TMR RTN Network "SuperClean Chemistry 2", *Host Institution:* School of Chemistry, Nottingham University, *Supervisor:* Prof. M. Poliakoff.

04/2001 to 10/2002 Research Staff at Clean Technology Group, *Host Institution:* Nottingham University, Nottingham, UK, *Supervisor:* Prof. Dr M. Poliakoff.

10/2002 to 09/2004 Marie Curie Fellow at Clean Technology Group, *Host Institution:* Nottingham University, Nottingham, UK. *Supervisor:* Prof. Dr M. Poliakoff.

09/2004 to 08/2009 Ramon y Cajal Fellow. Institution: University of Jaume I Castellon (Spain).

10/2009 to 08/2010 Científico Titular, CSIC, *Host Institution:* Instituto de Catálisis y Petroleoquímica (Madrid) (on temporary/voluntary leave).

10/2010 to 10/2011 Visitor Researcher with a Salvador de Madariaga's Fellowship in (12 months), Institution: Polymer Chemistry Lab. at Helsinki University. *Supervisor:* Prof. Dr H. Tenhu.

08/2010 up to date *Profesor Titular Universitario* (Lecturer) in Organic Chemistry, Institution: University of Jaume I Castellon (Spain).

1.3. Profesional Positions.

11/1995-11/1996	“Practicum” Employer: Degussa AG, Hanau, Alemania, Duties: R&D
10/1996-11/1996	Titulado Superior en Ciencias Químicas, Company: Venus Dos SA Duties: Lab. control and quality assessments
02/98-10/98	Titulado Superior en Ciencias Químicas Company: Naranjax, SL Duties: Lab. control and quality assessments

2. Qualifications in research and doctoral training.

2.1. Honours and awards

- 2009** Accredited for the position of *Profesor Titular de Universidad* (Associated Professor), after evaluation by the ANECA agency (from MICINN).
- 2008** Accredited for the *13 Program* from the Spanish Ministry of Science and Innovation (MICINN).
- 2003** Selected for the prestigious *Ramón y Cajal* research program from the Spanish Ministry of Education and Science (MEC)
- 2003** Accredited for the positions of *Profesor Contratado Doctor, Ayudante Doctor, and Colaborador*, after evaluation of the ANECA and CVAEQ agencies.
- 2002** Marie Curie Fellowship postdoctoral, Nottingham University, Nottingham, UK

The quality of the both research practices can be voluntarily evaluated during the permanent professor/researcher's career. The research quality and performance is evaluated by either the CNEAI (Comosion Nacional Evaluadora de la Actividad Investigadora) for the University Lectures and Professors or alternatively the CSIC committee for the permanent staff. I have been awarded with the following evaluation

- *positive evaluation* of two “*sexenio*” from 2000 to 2005 and from 2006 to 2011 by the CNEAI
- *positive evaluation* of two research periods from 2000 to 2004 and from 2005 to 2009 by Area the Ciencia y Tecnologías Químicas y la Presidencia del CSIC.

2.2. Nature and scope of publications (if not apparent from the List of Publications)

At 12th of May 2014 the results for the “citation report” of ISI Web of Science are the following:

- Results found (number of publications): 77
- Sum of the Times Cited: 1574
- Average Citations per Item: 20.44
- h-index: 24

The main topic of these publications is related with the new ways to transform simple substrates into added value products in a simpler, cleaner and more sustainable way. To achieve this goal, we are working mainly with catalytic and biocatalytic process. Indeed in the ISI Web of Science using the search-field: Topic= cataly* (Including catalysis and catalyst) in combination with the search-field: Author= garcia-verdugo gave 65 of 77 of the above mentioned publications. Most of these catalytic systems are immobilised onto polymeric organic materials either by polymerisation methods or by chemical modification of already performed polymer. As a matter of fact, more of the half of the above mentioned publication can be linked with the topic “polymer” (search field: topic= polymer + search field: author = garcia-verdugo 40 of 67). Other research topics are flow chemistry (search field: topic= flow + search field: author = garcia-verdugo 39 of 77) and supercritical fluids (topic= supercritical + author = garcia-verdugo 29 of 47). The combinations of these tools allow us to develop new more sustainable processes for the preparation of added value products.

2.3. Positions of scientific expertise

- 2013 up to date** Project Technical Advisor (PTA) assisting EC staff during the review of running projects funded under the Framework Programme 7, but also with other supporting tasks related to these projects
- 09/2010 up to date** Main Researcher of the "Grupo de Química Supramolecular y Sostenible" (www.quimicasostenible.uji.es) at the University Jaume I.
- 10/2009 to 08/2010** Científico Titular, CSIC, I, Institution: Instituto de Catalisis y Petroleoquímica (Madrid) (on temporary/voluntary leave).
- 09/2004 to 08/2009** Ramon y Cajal Fellow, Institution: University of Jaume I Castellon (Spain).
- 09/2000-09/2004** Part-time teaching fellow in Organic Chemistry, Institution: University of Jaume I Castellon (Spain).

2.4. International activities.

Stays at foreign universities

- 10/2010 to 09/2011** Visitor Researcher with a Salvador de Madariaga's Fellowship. Institution: Polymer Chemistry Lab. at Helsinki University. Supervisor: Prof. Dr H. Tenhu.
- 10/2002 to 09/2004** Marie Curie Fellow at Clean Technology Group, *Host Institution:* Nottingham University, Nottingham, UK, *Supervisor:* Prof. Dr M. Poliakoff.
- 04/2001 to 10/2002** Research Staff at Clean Technology Group, *Host Institution:* Nottingham University, Nottingham, UK, *Supervisor:* Prof. Dr M. Poliakoff.
- 03/2001-09/2001** 6-month Visit to Nottingham as part of TMR RTN Network "SuperClean Chemistry 2", *Host Institution:* School of Chemistry, Nottingham University, *Supervisor:* Prof. M. Poliakoff.
- 07/2000-09/2000** Invited Research in the Organic Department of the University of Oldenburg, Germany, *Host Institution:* Oldenburg University, Germany, *Supervisor:* Prof. Dr J. Martens.
- 10/1995-09/1996** Research as "Praktikant" for Degussa AG, *Host Institution:* Degussa AG. *Department of R&D in water soluble polymer, Supervisor:* Dr. Kiersey

Erasmus agreements

I am involved in the supervision of Erasmus students visiting our research group from different EU/universities (Germany, Poland, France, Check Republic, etc).

2.5. Scope and management of external research funding and projects

Funding received in last few year either as Associated Research or Principal Researcher:

Project Title	Role	EUROS	From to	Funding by
Nuevos polimeros funcionalizados con agentes de entrecruzamiento quirales	Associated Researcher	12.405	2001-04	BANCAJA-UJI P1-1B2001-12
Desarrollo de nuevos catalizadores enantioselectivos, inmovilizados, estables y reutilizables, basados en ligandos procedentes de aminoalcoholes	Associated Researcher	125.650	2002-05	CICYT. PPQ2002-04012-C03-02
Polimeros monolíticos con superficies y cavidades modificadas para su aplicación en procesos de separación y catálisis	Associated Researcher	41.500	2005-07	BANCAJA P1 1B2004-13
Nuevos conceptos en catálisis enantioselectiva soportada: Reactividad y selectividad en espacios restringidos	Associated Researcher	97.000	2005-08	MEC CTQ2005-08016-C04-03/BQU
Química Sostenible	Associated Researcher	6000	2007	Generalitat Valenciana ARVIV/2007/081
Nuevos conceptos en catálisis enantioselectiva soportada: Reactividad y selectividad en espacios restringidos	Associated Researcher	16000	2007	Generalitat Valenciana ACOMP/2007/105
GREEN ENANTIOSELECTIVE CATALYST FOR CONTINUOUS ASYMMETRIC PROCESSES IN SUPERCRITICAL FLUIDS (GRE-ENCAT)	Principal Researcher	144.665	2006-08	MARIE CURIE INTRAEUROPEA - EIF
Líquidos iónicos quirales: Nuevos disolventes, reactivos y catalizadores	Principal Researcher	16000	2007-9	BANCAJA P1 1A2007-11
OPTIMIZACIÓN Y DESARROLLO DE PROCESOS DE EXTRACCIÓN-REACCIÓN-SEPARACIÓN EN FLUIDOS SUPERCRÍTICOS MEDIANTE TÉCNICAS DE MONITORIZACIÓN ON-LINE/IN-SITU	Principal Researcher	15.870	2007-08	Generalitat Valenciana, grupos emergentes. GV-071139.01
ENABLING TECHNIQUES (TECNICAS FACILITADORAS): HERRAMIENTAS SOSTENIBLES PARA EL DESARROLLO DE PROCESOS QUIMICOS	Principal Researcher	10890	2009	MEC
Solid Ionic Liquids	Principal Researcher	30000	2010	CSIC_MINN
PROCESOS CATALITICOS BASADOS EN EL EMPLEO DE CATALIZADORES SOPORTADOS Y DISOLVENTES NEOTERICOS.	Associated Researcher	40000	2010-12	UJI
SINTESIS Y CARACTERIZACION DE DISOLVENTES IONICOS SOLIDOS PARA DISTINTAS APLICACIONES	Principal Researcher	34800	2010-11	MEC
DISOLVENTES NEOTERICOS EN EL DESARROLLO DE PROCESOS QUIMICOS CATALITICOS Y BIOCATALITICOS AVANZADOS Y SOSTENIBLES	Associated Researcher	15000	2013	Ajudes complementaries a projectes d'I+D GV
UNA APROXIMACION BIOMIMETICA A LA SOSTENIBILIDAD EN QUIMICA	Associated Researcher	54300	2012	Programa Prometeu (grups d'excel·lència) GV
DISOLVENTES NEOTERICOS PARA EL DESARROLLO DE PROCESOS QUIMICOS CATALITICOS Y BIOCATALITICOS AVANZADOS SOSTENIBLES	Associated Researcher	198440	2012-2014	MICINN

UNA APROXIMACION BIOMIMETICA A LA SOSTENIBILIDAD EN QUIMICA	Associated Researcher	54300	2013	Programa Prometeu (grups d'excel·lència) GV
UNA APROXIMACION BIOMIMETICA A LA SOSTENIBILIDAD EN QUIMICA	Associated Researcher	54300	2014	Programa Prometeu (grups d'excel·lència) GV
IMPLEMENTACIÓN DE COMPUESTOS GELANTES BIOCOMPATIBLES DE ALTA TEMPERATURA PARA SU APLICACIÓN INDUSTRIAL (BALTGELS)	Associated Researcher	40000	2013-2014	Start-UJI 2012
NUEVAS METODOLOGIAS SOSTENIBLES PARA LA SINTESIS DE AMINAS QUIRALES	Principal Researcher	36372	2014-2016	UJI

2.6 Competencies in applying research findings.

As it can be seen in the table above, the applicant have a proved track applying for research grants of either national or EU research programs

2.7 National and international research collaboration

Prof. Dr. Jürgen- Martens, Institut für Chemie (IfC), Oldenburg University (Germany).
 Prof. Dr. Vicente Miguel Gotor Santamaría, Univesidad de Oviedo (Spain).
 Prof. Dr. Heikki Tenhu, Laboratory of Polymer Chemistry, University of Helsinki (Finland).
 Prof. Dr. Maria Jose Cocero, High Pressure Processes Group, Universidad de Valladolid (Spain)
 Prof. Dr. Lozano, Universidad de Murcia (Spain).
 Prof. Dr. Peter Licence, GlaxoSmithKline Carbon Neutral Laboratory, Faculty of Science, University of Nottingham (UK)
 Prof. Dr. Poliakoff, Clean Technology Group, University of Nottingham (UK).
 Prof. Dr. Jose Sanchez Marcano, European Institute of Membranes, Lyon (France).

2.8 Coordination of doctoral training or other participation in nationwide doctoral programmes

Docent of the doctorate program of Sustainable Chemistry involving different Spanish universities within the framework of the Spanish Network of Sustainable Chemistry (<http://redqs.s43.eatj.com/redqs/redQS/en/docencia.jsp>)

2.9 Postgraduate supervision and experience as a dissertation pre-examiner and opponent

- Supervisor of 9 MSc Thesis for the Master of Sustainable Chemistry.
- Actual supervisor of 1 MSc Thesis for the Master of Sustainable Chemistry.
- Supervisor of 5 PhD Chemistry thesis in the last seven year.
- Actual supervisor of 2 PhD Chemistry thesis.
- Participation in five PhD Thesis defence panel (3 of ChemEng and 2 of Chem)

2.10 Contribution to International conferences and symposiums.

- Participation in more than 50 international conferences and symposiums.
- More than 20 oral and key notes at international conferences and symposiums.
- Member of the Local Organizing Committee 4th International Congress of Green Processes Engineering 2014, Sevilla (Spain)
- Organiser of the 1st, 2nd and 3rd Workshop on Green Chemistry held in Castellon in 2012, 2013 and 2014