



CURRICULUM VITAE (CVA)

IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

		CV date	26/12/2021
Part A. PERSONAL INFORMATION			
First name	Julián José		
Family name	Garrido Segovia		
Gender (*)	Male	Birth date (15/02/1955)	
Social Security, Passport, ID number	DNI	24115492S	
e-mail	j.garrido@unavarra.es	URL Web	
Open Research and Contributor ID (ORCID)(*)			0000-0002-3366-9726

(*) Mandatory

A.1. Current position

Position	Full profesor		
Initial date	2009		
Institution	Public University of Navarre (UPNA)		
Department/Center	Science department / Institute for Advanced Materials and Mathematics		
Country	Navarra-Spain	Teleph. number	(+034) 622570355
Key words			

A.2. Previous positions (research activity interruptions, art. 45.2.c))

Period	Position/Institution/Country/Interruption cause
1989-2009	Senior lecturer/ Public University of Navarre
1984-1989	Associate professor/University of Navarre
1982-1984	Research grant/ University of Alicante

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Licensed (Chemical Sciences)	University of Granada	1978
PhD (Chemical Sciences)	University of Alicante	1985

Part B. CV SUMMARY (max. 5000 characters, including spaces)

A. GENERAL QUALITY AND INDICATORS OF SCIENCE PRODUCTION

- Co-author of 101 research papers (57 Q1, 27 Q2).
- Total citations: 3292 (SCOPUS); >3145 (Publons); 4424 (google scholar)
- Average citations /year: last 5 years 166.6 (SCOPUS), 145 (SCI)
- H Index: 31 (SCOPUS); 30 (Publons); 36 (Google scholar)
- Periods of research activity (Sexenios research): 5 (13/06/2016). Last six-year term of transference: 2018.
- Foral Periods 7.5 (research 3, academic 3; management 1.5).
- 21 Research project (PI of 5 I+D national project (Plan National)
- Directed PhD theses: 14
- Researcher ID: C-4261-2008

- Scopus Author ID: 72022779787
- ORCID: 0000-0002-3366-9726

B. SUMMARY OF THE CURRICULUM

Julián Garrido Segovia (JGS) has a degree in chemistry from the University of Granada (1972-77). After that period he joined the research group of Prof. Rodríguez Reinoso (University of Alicante) and in 1984 he defended his doctoral thesis. The same year, he joined the Superior School of Industrial Engineering (San Sebastián) as an associate professor for 5 years. In 1989, he was awarded a senior lecturer position at the Public University of Navarre (UPNA) and in 2009 he became a full professor in the same institution.

The "adsorption" process is the axis on which his research has pivoted, first in his doctoral thesis (Characterization of the porous texture of activated carbons: analysis of several experimental and theoretical methods) and after in the UPNA, with two research lines: i) Retention of transition metals in soils and in their pure phases; ii) Synthesis and characterization of xerogels with different porosity by the sol-gel process, in order to implement fiber optic sensors (FOS). In addition, JGS has also research experience in the synthesis of organometallic compounds and in food science and technology.

When JGS took possession as senior lecturer at UPNA, it was being created, and thus, high dedication to management tasks were necessary: he was the first director of the Chemistry Department, member of the Management Committee and member of the Committee for Research and PhD. Since those first years, he has worked in all the doctoral programs of the Chemistry Department, and besides, from 04/07/2003 to 29/05/2007, he worked in the administrative and curricular student management as Vice-Chancellor. From 2004 to 2012, he has been the President of the Adsorption Group of the Physics and Chemistry Spanish Royal Societies, and at the moment, he is the director of the "Technical and Scientific Unit for Research Support" and the coordinator of the PhD program "Science and Industrial Technologies".

Most relevant work (with more than 120 citations):

- Garrido J, Linares Solano A, Martín Martínez M, Molina Sabio M, Rodríguez Reinoso F, Torregrosa R. 1987. LANGMUIR 3 (1), 76-81, (cited 396 times)
- Alvarez-Puebla R, Arceo E, Goulet PJC, Garrido J, Aroca R. 2005, Journal of Physical Chemistry B 109 (9), 3787-3792 (cited 226 times)
- Echeverría J, Morera T, Mazkiarán C, Garrido J. 1998, Environmental Pollution. 101 (2), 275-284 (cited 192 times)
- Rodríguez Reinoso F, Garrido J, Martín Martínez M, Molina Sabio M, Torregrosa R. 1989, CARBON 27 (1), 23-32 (cited 169 times)
- Morera, MT; Echeverria, JC; Mazkian, C; Garrido JJ. Environmental Pollution. 101 (2), 275-284 (cited 128 times)

Part C. RELEVANT MERITS (sorted by typology)

C.1. Publications (see instructions)

1. Guillermo Cruz; Maialen Espinal; Victoria Lopez Ramon; Julian J. Garrido. **2021**. Hybrid Xerogels: Study of the Sol-Gel Process and Local Structure by Vibrational Spectroscopy. Polymers. 13 – 2082.
2. Guillermo Cruz Quesada; Maialen Espinal Viguri; Maria Victoria Lopez Ramon; Julian J. Garrido Segovia. **2021**. Novel organochlorinated xerogels: from microporous materials to ordered domains. Polymers. 13, pp. 1415.
3. P. Mariones; JC Echeverria; J Parra; Julian J. Garrido. **2020**. Phenyl siloxane hybrid xerogels: structure and porous texture. Adsorption. 26 - 2, pp. 177 - 188.

4. Samantha Flores López; Sara F. Villanueva; Miguel A. Montes Morán; G Cruz; Julian J. Garrido; Ana Arenillas. 2020. Advantges of microwave-assisted synthesis of silica gels. *Colloid Surface A*. 604, pp.125248.
5. J Fernandes; AC. Fernandes; Jesus C. Echeverria; P. Moriones; Julian J. Garrido; Joao Pires. 2019. Adsorption of gases and vapours in silica based xerogels *Colloid an Surface Science*. 561, pp.128-135.
6. P. Moriones; G. Arzamendi; A. Cornejo; J.J. Garrido; J.C. Echeverria. 2019. Comprehensive Kinetics of Hydrolysis of Organotriethoxysilanes by ²⁹Si NMR *Journal of Physical Chemistry A*. 123-48, pp.10364-10371.
7. J.C. Echeverria; P. Moriones; G. Arzamendi; J.J. Garridp; M.J. Gil; A. Cornejo; V. Martinez Merino. 2018. Kinetic of the acid-catalyzed hydrolysis of tetraethoxysilane (TEOS) by ²⁹Si NMR spectroscopy and mathematical modeling *Journal of sol gel Science and Technology*. 86, pp.316-328.
8. I. Ospino; A. Luquin; M Jiménez Ruiz; et al. .2017. Computational Modeling and Inelastic Neutron Scattering Contributions to the Study of Methyl-silica Xerogels: A Combined Theoretical and Experimental Analysis *Journal of Physical Chemistry C*. ACS. 121, pp.22836.
9. JC Echeverria; I Calleja; P. Moriones; J.J. Garrido. 2017. Fiber-optic sensors based on hybrid phenyl-silica xerogel films to detect n-hexane: determination of the isosteric enthalpy of adsorption *Beilstein Journal of Nanotechnology*. Beilstein-Institut. 8, pp.475-484.
10. Ana Aliende; Asuncion Luquin; Julian J. Garrido. 2017. Nuclear Fission Technology in Spain: History and Social Concerns *Public Understanding of Science*. SAGE. 26-3, pp.307-324.
11. J Echeverria Morras; M Faustini; Julian J Garrido. 2016. Effects of the porous texture and surface chemistry of silica xerogels on the sensitivity of fiberoptic sensors toward VOCs *Sensors and Actuators B*.Elsevier. 222, pp.1166-1174.
12. A Lluquin; N Castillo; E. Cerrada; FL Merchan; JJ Garrido; M. Laguna. 2016. Complexes of the Hemilabile Pincer Ligand PPh(o-C₆H₄SMe)₂ as Highly Active and Recyclable Mizoroki–Heck Catalysts *Eur. J. Org. Chem*.pp.789-798.
13. Xabier Ríos; Paula Moriones; Jesus C. Echeverría; Asunción Luquin; Mariano Laguna; Julian J. Garrido. 2013. Ethyl group as matrix modifier and inducer or ordered domains in hybrid xerogels synthesised in acidic media using ethyltriethoxysilane (ETEOS) and tetraethoxysilane (TEOS) as precursors *Materials Chemistry and Physics*. 141, pp.166-174.
14. Echeverría JC; de Vicente P; Estella J; Garrido JJ. 2012. A fiber-optic sensor to detect volatile organic compounds based on a porous silica xerogel film *Talanta*. Elsevier. 90, pp.433-440.
15. Rios X; Moriones P; Echeverría JC; Luquin A; Laguna M; Garrido JJ. 2011. Characterization of hybrid xerogels synthesised in acid media using methyltriethoxysilane (MTEOS) and tetraethoxysilane (TEOS) as precursors *Adsorption*. 17, pp.583-593.
16. Estella J; de Vicente P; Echeverría JC; Garrido JJ. 2010. A fibre-optic humidity sensor based on a porous silica xerogel film as the sensing element *Sensors and Actuators B*.. 149, pp.122-128.

C.2. Congress

Scientific Committee of 35, 39, 40, 41, Reunión Ibérica de Adsorción.

C.3. Research projects

1. Multifuncionalidad en xerogeles nanoestructurados de silicio, dopados con lantanidos y titanio. De sensores de fibra optica a celdas solares (NASTUR2020). Ministerio de Ciencia e Innovación. Ref. PID2020-113558RB-C42 (01/09/2021-31/08/2025). 96800 €. IP: Julian Garrido Segovia.
2. Sensores químicos de fibra óptica para monitorización de reactores catalíticos Dirección General de Investigación Científica y Técnica (MINECO). Ref. MAT2016-78155-C2-2-R (01/01/2017- 30/06/2021). 120.000 €. IP: Julian Garrido Segovia.
3. Sistemas de almacenamiento térmico avanzado de alta temperatura y bajo coste Gobierno de Navarra. Ref. PC05—006-007-0087 HTSTORAGE) (01/01/2019-21/12/2019). 45.950 €. IP: Julian Garrido Segovia.
4. Sistemas de almacenamiento térmico avanzado de alta temperatura y bajo coste Gobierno de Navarra. Ref. PC44—045-046-047 HTSTORAGE (01/01/2018-31/12/2018). 35.165 €. IP: Julian Garrido Segovia.
5. Sensores: Diseños de sensores químicos de fibra óptica de agua, amoniaco y COVs para medir a tiempo real procesos químicos Gobierno de Navarra. Ref. PI 031 SensoresQ (01/01/2017-31/12/2017. 52.179 €. IP: Julian Garrido Segovia.
6. Sistemas de almacenamiento térmico avanzado de alta temperatura y bajo coste Gobierno de Navarra. Ref. PC018—019-020 HTSTORAGE (01/01/2017-01/01/2017). 52.998 €. IP: Julian Garrido Segovia.
7. Diseño de sensores químicos de fibra óptica de agua, amoniaco y COVs para medir a tiempo real procesos químicos Gobierno de Navarra. Ref. 0011-1383-2016-000000 (01/07/2016-31/12/2016). 40.536,86 €. IP: Julian Garrido Segovia
8. Preparación de geles silicios porosos para la implementación en sensores de fibra óptica de COVs Ministerio de Ciencia e Innovación. Ref. CTQ2008-06716-C03-02/BQU (01/2009-31/12/2010). 10.830 €. IP: Julian Garrido Segovia.
9. Preparación de geles silicios hibridos para la implementación en sensores de fibra óptica de COVs Ministerio de Ciencia e Innovación. Ref. CTQ2009-07993/BQU (Desde 01/2010). 54.000 €. IP: Julian Garrido Segovia.

C.4. Contracts, technological or transfer merits

2021-... Preparation of solar cells at the National Center for Renewable Energies (CENER)

2017-... Director of the "Technical and Scientific Unit for Research Support"

2014- ...Coordinator of the PhD program in "Science and Industrial Technologies". UPNA

2012- ...Director of the postgraduate course (CSIC-RSEQ): "Introducción a la caracterización de adsorbentes y catalizadores". Jarandilla de la Vera, 3.

2004-2012 President of the Adsorption Group of the Physics and Chemistry Spanish Royal Societies