

CV date	06-06-2025
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Part A. PERSONAL INFORMATION

First and Family name	Antonio González Sánchez		
Social Security, Passport, ID number	07964500Z	Age	54
Researcher codes	Open Researcher and Contributor ID (ORCID**)	0000-0002-1254-1707	
	SCOPUS Author ID (*)	7404584944	
	WoS Researcher ID (*)	A-3545-2016	

(*) Optional

(**) Mandatory

A.1. Current position

Name of University/Institution	Universidad de Salamanca		
Department	Dpto. de Física Aplicada / Facultad de Ciencias		
Address and Country	Pza. de la Merced s/n 37008 Salamanca		
Phone number	677 565 483	E-mail	ags@usal.es
Current position	Senior Lecturer	From	10/30/2008
Key words	220510, 221300		

A.2. Education

PhD, Licensed, Graduate	University	Year
Lic. Physics	Universidad de Salamanca	1994
PhD. Physics	Universidad de Salamanca	1998

A.3. General indicators of quality of scientific production (see instructions)

- 2 six-year research periods (1997-2008) out of 4.
- 32 JCR papers.
- 518 citations (17 citations/year in the last five years).
- h-index: 12

Data taken from Scopus.com

Part B. CV SUMMARY (max. 3500 characters, including spaces)

I got my PhD in 1998. My Thesis was devoted to the study of hard-sphere inhomogeneous fluids by means of Density Functional Theories (DFT). I carried a 3-month research stay in Bristol University, under the direction of Prof. R. Evans, focused on the effects of dimensionality in DFT. Then I moved to Lisbon University, where I obtained a postdoctoral grant centered on wetting phenomena and properties of polymer-colloid mixtures.

By the end of 2000 I came back to Universidad de Salamanca, occupying several positions until I was appointed Senior Lecturer in 2008. In this period my research has been centered on the study of inhomogeneous fluids by means of DFT and Monte Carlo simulations, mainly on the influence of the Statistical ensemble and the dimensions of the systems under study.

Now my interest have turned to the field of energy converters and its optimization. The design of these devices implies a large number of components and therefore a large number of parameters. Some of these can be varied in order to achieve a better output, a process which is sometimes referred to as multi-objective, multi-parametric optimization.

I belong to a recognized research group (Research Group on Energy Optimization, Thermodynamics, and Statistical Physics) from University of Salamanca that maintains stable research collaborations with several international groups. I have participated in about 10 research projects.

Part C. RELEVANT MERITS (sorted by typology)

C.1. Publications (see instructions)

- García-Ferrero, J.; Heras, I.; Santos, M.J.; Merchán R.P.; Medina, A.; González, A.; Calvo Hernández, A. Thermodynamic and Cost Analysis of a Solar Dish Power Plant in Spain Hybridized with a Micro-Gas Turbine. *Energies* 2020, 13(19), p. 5178. 05/10/2020. ISSN 1996-1073. DOI: [10.3390/en13195178](https://doi.org/10.3390/en13195178)
- González, A.; White, J. A.; Román, F. L.; Velasco, S. Entropic selectivity of binary mixtures in cylindrical pores. *Journal of Chemical Physics* 135, pp. 154704. 21/10/2011. ISSN 0021-9606. DOI: [10.1063/1.3643117](https://doi.org/10.1063/1.3643117)

C.2. Research projects

- *Integración de la dinámica de sistemas packed-bed en almacenamiento energético mediante sistemas de bombas a alta temperatura.*
Main researchers: Medina Domínguez, A., and Santos Sánchez, M. J.
Number of researchers: 6
Funding entity: Agencia Estatal de Investigación (Spain), PID2023-147201OBI00
Dates: 01/09/2024 - 31/08/2027, 3 years
Budget: 62500 €
- *GTFE-Optimización energética, Termodinámica y Física Estadística*
Main researcher: Medina Domínguez, A.
Number of researchers: 7
Funding entity: JCyL (Spain), SA071G24
Dates: 01/01/2025 - 31/12/2028, 4 years
Budget: 12000 €
- *Low-scale hybrid thermosolar plants for distributed energy generation*
Main researchers: Calvo Hernández, A.
Number of researchers: 7
Financing entity: JCyL (Spain), SA017-P17
Dates: 01/01/2017 - 31/12/2019, 3 years
Budget: 108.380 €
- *Efficient energy converters and sustainable working fluids*
Main researchers: Juan Antonio White Sánchez; Calvo Hernández, A.
Number of researchers: 13
Financing entity: MINECO (Spain), ENE2013-40644-R
Dates: 01/01/2014 - 31/12/2016, 3 years
Budget: 56.870 €
- *Thermodynamic optimization of energy converters*
Main researcher: Medina, A.
Number of researchers: 7
Financing entity: MINECO, FIS2010-17147
Dates: 01/01/2011 - 31/12/2013, 3 years
Budget: 30.250 €

C.3. Contracts, technological or transfer merits

- *Planta de concentración termosolar de disco parabólico con ciclo Brayton híbrida para generación distribuida de energía (BraySolDish)*
(LANZADERA_TCUE-18-20_010)
Main researcher: Irene Heras Pérez (10 participantes)
Financing Entity: Fundación General Universidad de Salamanca
Dates: 01/07/2019 – 31/12/2019
Budget: 10.000 €
- *Thermo-economic optimization of recuperative multi-stage hybrid thermosolar plants in Castilla y León (IQPC-TERMOSOLARES)*

Main researcher: Medina, A.

Financing Entity: JCyL (Spain), Fundación General Universidad de Salamanca

Dates: 01/04/2016 – 31/03/2017

Budget: 6.000 €

- *Thermo and techno-economic assessment of hybrid thermosolar plants* (FPC-TERMOHIBRIDAS)

Main researcher: Calvo Hernández, A.

Financing entity: JCyL (Spain), Fundación General Universidad de Salamanca

Dates: 01/04/2016 – 31/07/2016

Budget: 9.000 €

- *Clean and efficient generation of electricity and heat on a small scale: hybrid thermosolar dish* (PC-TCUE-18-20_002)

Financing entity: JCyL (Spain), Fundación General Universidad de Salamanca

Main researcher: Santos Sánchez, M.J.

Dates: 19/12/2018 – 19/12/2019

Budget: 10.000 €

- *Parabolic dish thermosolar concentration plant with hybrid Brayton cycle for distributed power generation* (BraySolDish)

Financing entity: Fundación General Universidad de Salamanca

Main researcher: Santos Sánchez, M.J. y Heras, I.

Dates: 01/07/2019 – 30/09/2020

Budget: 8.000 €

C.4. Patents

C.5, C.6, C.7...

- Number of teaching steps acknowledged: 5 (maximum achievable)
- Coordinator of the Degree in Physics in the Universidad de Salamanca (2014-2018)
- Erasmus+ Project
 - *GIRLS: Generation for Innovation, Resilience, Leadership and Sustainability. The game is on!* (2022-1-ES01-KA220-HED-000089166)
 - Dates: 01/09/2022 – 31/08/2025
 - Main researcher: Araceli Queiruga Dios.