

ABBREVIATED CURRICULUM VITAE

Part A. PERSONAL INFORMATION

Name	Marisol (Maria Soledad)
Surname	Martín González
Gender	Female
Date of Birth	07/07/1971
National ID (DNI)	52124479Q
Email	marisol.martin@csic.es
Website URL	https://finder.imn-cnm.csic.es/
ORCID ID	0000-0002-5687-3674
Google Scholar	https://scholar.google.es/citations?user=TLI0OPAAAAAJ&hl=es&oi=ao

Current Position

Position	Research Professor
Start Date	2021
Institution	Institute of Micro and Nanotechnology (IMN) / Spanish National Research Council (CSIC)
Country	Spain
Phone	(0034) 91 806 07 00
Keywords	Electrochemistry; Material properties; Energy generation; Nanotechnology

Previous Positions

2021 - 2024	Scientific Coordinator of the Global Matter Area, CSIC (Supervised 41 research centers)
2016 - 2016	Visiting Professor / Department of Mechanical Engineering at Massachusetts Institute of Technology (MIT, USA)
2013 - 2016	Head of Devices, Sensors, and Biosensors Department / IMN
2012 - 2013	Deputy Director of IMN / IMN
2007 - 2011	Tenured Scientist / CSIC
2004 - 2007	Ramón y Cajal Researcher / CSIC
2003 - 2004	Senior Research Associate / CSIC
2002 - 2003	Postdoctoral / CSIC
2001 - 2002	Postdoctoral Fellow MECYT/Fullbright / University of California at Berkeley
2000 - 2001	Visiting Research Fellow / University of California at Berkeley
1997 - 1999	Associate Professor / San Pablo University (CEU)
1998 - 1999	Scientific Collaborator / UCM
1995 - 1997	Predoctoral / UCM

Education

PhD in Sciences*	Complutense University of Madrid / Spain	2000
Bachelor's Thesis	Autonomous University of Madrid / Spain	1997
Bachelor's Degree in Chemistry	Autonomous University of Madrid / Spain	1994

* Outstanding Cum Laude unanimously and Extraordinary PhD Award

Part B. CV Summary

Professor María Soledad Martín-González, a distinguished CSIC Researcher, leads the "Functional Nanostructured Devices for Energy -FINDER-" research group, which comprises 20 members. Her core research focuses on the design and optimization of nanotechnological devices through advanced semiconductor nanoengineering. The primary objective is to develop innovative self-recharging devices that significantly enhance energy efficiency and contribute to the reduction of CO₂ emissions.

Her influential leadership in the scientific community is underscored by her role as Coordinator of the Global Matter Area of CSIC, where she oversees 41 research centers. Since 2022, she has also been recognized as a Corresponding Academician of the Royal Academy of Sciences. Additionally, she is an elected member and has previously served as secretary of the Executive Board of the European Thermoelectric Society, demonstrating her commitment to international scientific collaboration.

Professor Martín-González has successfully secured over 11 million euros in competitive funding throughout her career. Her extensive participation includes 34 national, European, and bilateral projects, notably encompassing prestigious ERC grants (Advanced, Starting, and Proof of Concept), FP7 programs, and the CONSOLIDER project focused on semiconductor polymers. Her collaborative network extends globally, partnering with esteemed institutions such as MIT, UC Berkeley, Lockheed Martin, REPSOL, ITP Aero, and other leading international companies.

She holds a robust patent portfolio of 8 patents (six PCT extensions), with two already licensed and one currently under negotiation. Driven by a strong commitment to technology transfer, she co-founded the spin-off AD+Particles in 2011. Through this venture, she has fostered collaborations with prominent industrial partners like Repsol, Fiat, Seat, Siemens, and Nextreme Thermal. Currently, her efforts are directed towards the commercialization of self-powered IoT devices, targeting critical applications in the medical and industrial sectors.

Her exceptional contributions have been recognized with significant accolades, including the Research Excellence Award from the Spanish Royal Society of Chemistry and the prestigious Margarita Salas Medal for Excellence in Mentorship. Beyond her research, she has dedicated considerable effort to nurturing the next generation of scientists, having supervised numerous doctoral theses. She is also a passionate advocate for diversity in STEM fields, actively promoting the increased representation of women in science and engineering.

Part C. RELEVANT MERITS

Selected Publications

Professor Martín-González has an impressive publication record of **more than 165 publications** (~90% in Q1 journals), accumulating **over 9100 citations**, and boasting an **h-index of 51** (Google Scholar). She has been consistently ranked in the **top 2% of the world's best scientists by Stanford** (2020, 2022). A selection of her key publications includes:

- **Article.** Díaz-Lobo, A., Martin-Gonzalez, M.*, & Manzano, C. V. (2025). "Advancing All-Day Passive Radiative Cooling Performance of 3D Anodized Aluminum Oxide Nanostructures on Aluminium." *ACS Applied Optical Materials*, Accepted.
- **Article.** Perez-Taborda, J. A., Caballero-Calero, O., Vera-Londono, L., Briones, F., & Martin-Gonzalez, M. (2018). "High Thermoelectric zT in n-Type Silver Selenide films at

- Room Temperature." *ADVANCED ENERGY MATERIALS*, 8, 1702024 (1-8). <https://doi.org/10.1002/aenm.201702024>
- **Article.** Ruiz-Clavijo, A., Pérez, N., Caballero-Calero, O., et al., & Martín-González, M. (2023). "Localization and Directionality of Surface Transport in Bi₂Te₃ Ordered 3D Nanonetworks." *ACS Nano*, 17(17), 16960–16967. <https://pubs.acs.org/doi/full/10.1021/acsnano.3c04160>
 - **Article.** Gonzalez-Juarez, M. L., Morales, C., Flege, J. I., Flores, E., Martin-Gonzalez, M., Nandhakumar, I., & Bradshaw, D. (2022). "Tunable Carrier Type of a Semiconducting 2D Metal-Organic Framework Cu₃(HHTP)₂." *ACS APPLIED MATERIALS & INTERFACES*, 14(10), 12404-12411. <https://pubs.acs.org/doi/full/10.1021/acsami.2c00089>
 - **Article.** Mobini, S., Gonzalez, M. U., Caballero-Calero, O., Patrick, E. E., Martin-Gonzalez, M., & Garcia-Martin, J. M. (2022). "Effects of nanostructuration on the electrochemical performance of metallic bioelectrodes." *NANOSCALE*, 14(8), 3179-3190. <https://doi.org/10.1039/D1NR06280H>
 - **Article.** Manzano, C. V., Rodriguez-Acevedo, J., Caballero-Calero, O., & Martin-Gonzalez, M. (2022). "Interconnected three-dimensional anodized aluminum oxide (3D-AAO) metamaterials using different waveforms and metal layers for RGB display technology applications." *JOURNAL OF MATERIALS CHEMISTRY C*, 10(5), 1787-1797. <https://doi.org/10.1039/D1TC05209H>
 - **Article.** Ruiz-Clavijo, A., Caballero-Calero, O., Manzano, C. V., Maeder, X., Beardo, A., Cartoixa, X., Aprimelvarez, F. X., & Martin-Gonzalez, M. (2021). "3D Bi₂Te₃ Interconnected Nanowire Networks to Increase Thermoelectric Efficiency." *ACS APPLIED ENERGY MATERIALS*, 4(12), 13556-13566. <https://doi.org/10.1021/acsaem.1c02129>
 - **Article.** Caballero-Calero, O., Rull-Bravo, M., Platzek, D., Cardenas, M. D., Fernandez, R., Moure, A., Fernandez, J. F., & Martin-Gonzalez, M. (2021). "Tubular ring thermoelectric module for exhaust pipes: From Skutterudite nanopowders to the final device." *ENERGY*, 234. <https://doi.org/10.1016/j.energy.2021.121223>
 - **Article.** Manzano, C. V., Caballero-Calero, O., Tranchant, M., Bertero, E., Cervino-Solana, P., Martin-Gonzalez, M., & Philippe, L. (2021). "Thermal conductivity reduction by nanostructuration in electrodeposited CuNi alloys." *JOURNAL OF MATERIALS CHEMISTRY C*, 9(10), 3447-3454. <https://doi.org/10.1039/D1TC00307K>
 - **Article.** Ruiz-Clavijo, A., Caballero-Calero, O., & Martin-Gonzalez, M. (2021). "Revisiting anodic alumina templates: from fabrication to applications." *NANOSCALE*, 13(4), 2227-2265. <https://doi.org/10.1039/D0NR07582E>
 - **Article.** Gonzalez-Juarez, M. L., Flores, E., Martin-Gonzalez, M., Nandhakumar, I., & Bradshaw, D. (2020). "Electrochemical deposition and thermoelectric characterisation of a semiconducting 2-D metal-organic framework thin film." *JOURNAL OF MATERIALS CHEMISTRY A*, 8(26), 13197-13206. <https://doi.org/10.1039/D0TA04939E>
 - **Article.** Jimenez Reinoso, J., Rojo, M. M., del Campo, A., Martin-Gonzalez, M., & Fernandez, J. F. (2019). "Highly Efficient Antimicrobial Ceramics Based on Electrically Charged Interfaces." *ACS APPLIED MATERIALS & INTERFACES*, 11(42), 39254-39262. <https://doi.org/10.1021/acsami.9b10690>
 - **Article.** Beretta, D., Neophytou, N., Hodges, J. M., et al., & Caironi, M. (2019). "Thermoelectrics: From history, a window to the future. Topical invited review in: MATERIALS SCIENCE & ENGINEERING R-REPORTS", 138, 210-255. <https://doi.org/10.1016/j.mser.2018.09.001>
 - **Article.** Resende, P. M., Sanz, R., Caballero-Calero, O., & Martín-González, M. (2018). "Cost-Effective, Flexible, and tunable structural color in polymeric Bragg." *Adv. Opt. Mater.* (Journal Inside Cover). <https://doi.org/10.1002/adom.201800408>

- **Article.** Abad, B., Borca-Tasciuc, D.-A., & Martin-Gonzalez, M. S. (2017). "Non-contact methods for thermal properties measurement." *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*, 76, 1348-1370. <https://doi.org/10.1016/j.rser.2017.03.027>
- **Article.** de Lucas-Gil, E., Reinos, J. J., Neuhaus, K., Vera-Londono, L., Martin-Gonzalez, M., Fernandez, J. F., & Rubio-Marcos, F. (2017). "Exploring New Mechanisms for Effective Antimicrobial Materials: Electric Contact-Killing Based on Multiple Schottky Barriers." *ACS APPLIED MATERIALS & INTERFACES*, 9(31), 26219-26225. <https://doi.org/10.1021/acsami.7b09695>
- **Article.** Moure, A., Rull-Bravo, M., Abad, B., et al., & Martin-Gonzalez, M. (2017). "Thermoelectric Skutterudite/oxide nanocomposites: Effective decoupling of electrical and thermal conductivity by functional interfaces." *NANO ENERGY*, 31, 393-402. <https://doi.org/10.1016/j.nanoen.2016.11.041>
- **Article.** Martin-González, M., Caballero-Calero, O., & Diaz-Chao, P. (2013). "Nanoengineering thermoelectrics for 21st century: Energy harvesting and other trends in the field." *RENEWABLE & SUSTAINABLE ENERGY REVIEWS*, 24, 288-305. <https://doi.org/10.1016/j.rser.2013.03.008>
- **Article.** Martin, J., Manzano, C. V., Caballero-Calero, O., & Martin-Gonzalez, M. (2013). "High-Aspect-Ratio and Highly Ordered 15-nm Porous Alumina Templates." *ACS APPLIED MATERIALS & INTERFACES*, 5(1), 72-79. <https://doi.org/10.1021/am3020718>
- **Article.** Abad, B., Alda, I., Diaz-Chao, P., et al., & Martin-Gonzalez, M. (2013). "Improved power factor of polyaniline nanocomposites with exfoliated graphene nanoplatelets (GNPs)." *JOURNAL OF MATERIALS CHEMISTRY A*, 1(35), 10450-10457.

Conferences

- **Over 400 presentations** (invited, oral, and poster) at national and international meetings.
- **45 invited seminars** at leading institutions (e.g., MIT, Stanford, Fraunhofer).
- **35 invited talks** at top-tier conferences (e.g., MRS, E-MRS, ICT, ECT).

Selected Research Projects

- **POWERbyU (ERC-2021-ADG)**
 - **Project ID:** 101052603
 - **Title:** Powering WEaRable devices BY hUman heat with highly efficient, flexible, bio-inspired generators
 - **Principal Investigator:** Dr. M^a Soledad Martín González
 - **Period:** 03/10/2022 - 02/10/2027
 - **Funding:** €2,499,266
- **MIDAS (HORIZON-MSCA-2022-PF-01)**
 - **Project ID:** 101107507
 - **Title:** Magnetic 3D nanowire networks
 - **Principal Investigator:** Dr. M^a Soledad Martín González
 - **Period:** 01/04/2023 - 31/03/2025
 - **Funding:** €181,152.96
- **MERGE (MINECO)**
 - **Project ID:** PID2020-118430GB-I00
 - **Title:** METAMATERIALS FOR POWER GENERATION
 - **Principal Investigator:** Dr. M^a Soledad Martín González
 - **Period:** 01/09/2021 - 31/08/2024
 - **Funding:** €248,050

- **microTENERGY (Ramón Areces Foundation)**
 - **Title:** MICRO-Thermoelectric Generator for portable and sustainable ENERGY
 - **Principal Investigator:** Dr. Olga Caballero-Calero
 - **Period:** 12/05/2021 - 11/05/2024
 - **Funding:** €112,000
- **Fabrication and Characterization of 2D transition metal selenides (CSIC)**
 - **Principal Investigator:** Dr. M^a Soledad Martín González
 - **Period:** 01/10/2019 - 30/09/2022
 - **Funding:** €10,000
- **DEÑSIFy (MINECO Contract Number: MAT2017-86450-C4-3-R)**
 - **Title:** NANOSTRUCTURED THERMOELECTRICS WITH HIGH FIGURE OF MERIT COLD SINTERED
 - **Principal Investigator:** Dr. M^a Soledad Martín González
 - **Period:** 01/01/2018 - 31/12/2020
 - **Funding:** €60,500
- **TECONstruct (CSIC Contract Number: I_LINK1231)**
 - **Title:** Thermoelectric characterization of nanostructures
 - **Principal Investigator:** Dr. Olga Caballero Calero
 - **Period:** 01/01/2018 - 31/12/2019
 - **Funding:** €16,584
- **INFANTE (PIE 201550E072 Contract Number: 201550E072)**
 - **Title:** Research on the fabrication and properties of thermoelectric nanostructures
 - **Principal Investigator:** Dr. M^a Soledad Martín González
 - **Period:** 15/07/2015 - 31/12/2019
 - **Funding:** €269,794.56
- **TONSOPS (H2020-MSCA-IF-2015 Marie Curie Contract Number: 706094)**
 - **Title:** Titanium Oxide Nanocomposites for Scalable Optimized Perovskite Solar cells
 - **Principal Investigator:** Dr. M^a Soledad Martín González
 - **Period:** 01/03/2016 - 20/03/2017
 - **Funding:** €170,121.6
- **TONALITY (H2020: ERC-POC - Proof of Concept Grant)**
 - **Title:** commercialised Three-dimensional Nanoporous ALumIna Templates
 - **Principal Investigator:** Dr. M^a Soledad Martín González
 - **Period:** 1/7/2015 - 31/12/2016
 - **Funding:** €149,953
- **nanoTHERM (Ref: CSD2010-00044)**
 - **Title:** Tailoring electronic and phononic properties of nanomaterials: Towards ideal Thermoelectricity
 - **Overall PI:** Dr. Clivia Sotomayor (CIN2)
 - **PI of IMN subproject:** Dr. M^a Soledad Martín González
 - **Period:** 1/1/2012 - 31/12/2016
 - **Funding:** €440,463.97
- **PHOMENTA (MAT2011-27911)**
 - **Title:** PHOtoacoustic MEasurements of Nanostructures for Thermoelectric Applications
 - **Principal Investigator:** Dr. M^a Soledad Martín González
 - **Period:** 01/01/2012 - 31/12/2015
 - **Funding:** €150,000 + FPI fellow
- **nanoHITEC (European Union NMP.2010-1.2-3; 263306)**
 - **Title:** Nano-structured High-efficiency Thermo-Electric Converters

- **Overall PI:** Dr. H. Rorhmann
- **PI of IMM subproject:** Dra. M^a Soledad Martín González
- **Period:** 1-12-2011 to 30-11-2014
- **Funding:** €442,907.72
- **NEXTEC (European Union NMP.2010-1.2-3; 263167)**
 - **Title:** Next Generation Nano-engineered Thermoelectric Converters - from concept to industrial validation
 - **Overall PI:** Prof. M. Mammoun
 - **PI responsible for IMM subproject:** Dra. M^a Soledad Martín González
 - **Period:** 1-6-2011 to 31-5-2014
 - **Funding:** €306,433
- **IRES (US National Science Foundation (NSF) program: IRES/DDEP award number: 1028071)**
 - **Title:** International Collaboration on Fabrication and Characterization of Nanocrystalline Bismuth Telluride Materials for Thermoelectric Applications
 - **Overall PI:** Dr. Diana Borca-Tasciuc
 - **PI responsible for IMM subproject:** Dra. M^a Soledad Martín González
 - **Period:** 1/09/2010 – 31/08/2013
 - **Funding:** \$149,640 (2 partners)
- **Nano-TEC (ERC-StG-240497)**
 - **Title:** Nano-engineered high performance Thermoelectric Energy Conversion devices
 - **Principal Investigator:** Dra. M^a Soledad Martín González
 - **Period:** 1-3-2010 to 28-2-2016
 - **Funding:** €1,228,000
- **NANOTHERMA (PLE2009-0073)**
 - **Title:** First steps towards the integration of nanowire arrays on practical thermoelectrics devices for Energy applications
 - **Principal Investigator:** Dra. M^a Soledad Martín González
 - **Period:** 1-11-2009 to 31-7-2013
 - **Funding:** €246,000
- **μSPM-ZnO (MAT2008-06330)**
 - **Title:** Estudios de transporte sub-micrométrico por microscopia de sonda local en películas delgadas y multicapas basadas en óxido de cinc crecidos por diferentes técnicas
 - **Principal Investigator:** Dr. J.L. Costa-Kramer
 - **Period:** 1-11-2008 to 1-11-2011
 - **Funding:** €242,000
- **MagOrigin (CSIC Intramural Projects (2007-50I015))**
 - **Title:** Origen del Magnetismo en los "nuevos semiconductores magnéticos diluidos": InAs y ZnO implantados con metales de transición
 - **Principal Investigator:** Dra. M^a Soledad Martín-González
 - **Period:** 1/08/2007 to 30/04/2009
 - **Funding:** €30,000
- **Microstructural and magnetic study of CoO/Co₅₀Pt₅₀ (111) PLD films for tilted magnetic recording (Joint Spain-Italy Projects (2006IT0044))**
 - **Principal Investigator:** Fernando Briones
 - **Period:** 2007-2008
 - **Funding:** €10,000
- **MAGIN-MIC (Frontier Intramural Projects (CSIC) (PIF06-024-2))**
 - **Title:** Materiales con nuevo magnetismo de intercara: origen y exploración de aplicaciones

- **Overall PI:** Prof. J. F. Fernández-Lozano (ICV-CSIC)
- **PI responsible for IMM subproject:** Dra. M^a Soledad Martín González
- **Period:** 01-01-2007 to 31-12-2008
- **Funding:** €49,750
- **GENESIS-FV (CONSOLIDER (CSD2006-0004))**
 - **Title:** Investigación en materia de una nueva generación de materiales, células y sistemas para la conversión fotovoltaica
 - **Principal Investigator:** Fernando Briones
 - **Period:** Sept 2006 to Sept 2011
 - **Funding:** €300,229

Participation in R&D Contracts with Companies and/or Administrations

- **ITP AERO**
 - **Principal Investigator:** Dr. M. Soledad Martín González
 - **Period:** 01/01/2024 - 30/06/2025
 - **Funding:** €120,000
- **ADVANCED INTEGRATED PROPULSION SYSTEM 2017 (Repsol)**
 - **Principal Investigator:** Dr. M. Soledad Martín González
 - **Period:** 01/01/2015 - 31/12/2017
 - **Funding:** €242,000
- **Development of a thermoelectric system for frosted beverage dispensers (Exclusivas JIL)**
 - **Principal Investigator:** Dr. M. Soledad Martín González
 - **Period:** 10/12/2012 - 01/10/2014
 - **Funding:** €22,407.39
- **Electrochemically deposited bismuth telluride (NEXTREME THERMAL, USA)**
 - **Principal Investigator:** Dr. M. Soledad Martín González
 - **Period:** 2010-2011
- **HIDEMAR (European Union & UNAXIS BALZERS GmbH)**
 - **Title:** Self-Assembled Nanoparticles and Nanopatterned Arrays for High Density Magneto-Recording
 - **Principal Investigator:** Dino Fiorani
 - **Period:** 2002-2004 (3 years)
- **Synthesis of nanowire arrays of thermoelectric materials for low temperature Applications (Lockheed Martin, USA)**
 - **Principal Investigator:** A. M. Stacy; U.C. Berkeley
 - **Period:** 2001-2003 (3 years)
- **Quantum Structures for Thermoelectric Applications (Department of Defense (DoD) MURI Hi-Z Technologies Inc. and Marlow)**
 - **Principal Investigator:** G. Chen MIT
 - **Period:** 1997-2002 (6 years)

C.4.5 Spin-off

- **AD+Particles (2011-present):** Co-founder of this technology-based company.
 - **Website:** <http://www.ad-particles.com/es/>
 - **Focus:** Dry dispersion technology for nanoparticles applied to cosmetics and sunscreens.

Patents & Technology Transfer

- **8 patents** (6 PCT extensions), several licensed to industry (AD+Particles, LEITAT) and implemented in commercial products.
- **1 industrial secret** under negotiation with Netzsch Gerätebau GmbH: "Thermal conductivity measurement with LFA using new modifications" (Inventors: Marisol Martín-González, Olga Caballero Calero, Miguel Ángel Tenaguillo Arrese -Igor).
- **European Patent EP 25382131.8:** "TRIBOELECTRIC NANOGENERATOR AND METHOD OF MANUFACTURING THE SAME." (Inventors: Marisol Martín-González; Carlos García Cobos). Under negotiation for a new spin-off.
- **European Patent EP24383231.8:** "METHOD AND SYSTEM FOR TESTING TRIBOELECTRIC MATERIALS." (Inventors: Marisol Martín-González; Carlos García Cobos). Under negotiation for a new spin-off.
- **PROCEDURE FOR THE PREPARATION OF COSB3-TYPE NANOSTRUCTURED SKUTTERUDITES.** (Application No.: 2015/0706; Date: 22/09/2015). Inventors: Martínez Crespiera, Sandra; Amantia, David; Pelegrin Rellán, Cesar; M.S. Martín-González; Rull Bravo, Marta; Abad Mayor, Begoña; Fernández Lozano, José Francisco; Gutiérrez Tauste, David; Della Pirreiera, Monica; Faccini, Mirko; Aubouy, Laurent. (Owned by LEITAT Technology Center and Spanish National Research Council).
- **NANOSTRUCTURED MATERIAL, PROCESS OF OBTAINING AND USING IT.** (P201431048; Date: 11/07/2014). Inventors: M.S. Martín-González and Jaime Martín. (Owned by Spanish National Research Council).
- **Dispersing nanoparticles on support particles or other substrate for dispersing nanoparticles for the preparation of composite materials, ceramics, polymers, paints, cements, catalysts or drugs comprises agitating in a dry medium.** (Application No.: 2009/0702; Date: 2009). Inventors: J.F. Fernández; I. Lorite; F. Rubio; J.J. Romero; M. A. García; A. Quesada; M.S. Martín-González; J.L. Costa-Krämer.
- **NANOSTRUCTURED ELECTRODES FOR ELECTRICAL STIMULATION OF CULTURED CELLS, ASSOCIATED DEVICES, SYSTEMS AND PROCEDURES.** (Application No.: P202030626; Date: 2021). Inventors: Saba Mobini; José Miguel García Martín; María Ujué GONZÁLEZ SAGARDOY; María Soledad Martín González; Olga Caballero Calero; Jorge M. GARCÍA MARTÍNEZ; Francisco Javier Díez Guerra; Erin E. Patrick.

Doctoral Thesis Supervision and Current Positions of Researchers (+3 in progress)

- **Alba Díaz Lobo (2025)**
 - **Thesis Title:** "Passive Daytime Radiative Coolers based on Anodic Aluminium Oxide Nanostructures."
 - **Supervisors:** Prof. Marisol Martín-González and Cristina Vicente Manzano.
 - **Current Status:** Thesis just submitted at UAM.
- **Liliana Patricia Vera-Londoño (2023)**
 - **Thesis Title:** "Thermal conductivity measurements with nanoscale resolution by scanning thermal microscopy."
 - **Supervisor:** Prof. Marisol Martín-González.
 - **Current Position:** Postdoc at the University of the Andes (Colombia).
- **Alejandra Ruiz-Clavijo (2022)**
 - **Thesis Title:** "Three-dimensional nanostructures (3D alumina and networks of nanowires interconnected in the three directions of space)."
 - **Supervisors:** Prof. Marisol Martín González and Dr. Olga Caballero Calero.
 - **Current Position:** Postdoc at Dresden University (Germany).
- **Pedro Campos-Resende (2021)**
 - **Thesis Title:** "Three-dimensional polymeric nanonetworks from hard-template nanostructuration."
 - **Supervisor:** Marisol Martín González.

- **Current Position:** Postdoc at the University of Bordeaux (France).
- **Jaime Andrés Pérez (2017)**
 - **Thesis Title:** “High thermoelectric efficiency in sputter-deposited nanostructured SiGe, Cu₂Se and Ag₂Se nanostructured thin films.”
 - **Supervisor:** Prof. Marisol Martín-González.
 - **Current Position:** Assistant Professor at the National University of Colombia.
- **Begoña Abad (2016) - Doctoral Thesis Award**
 - **Thesis Title:** “Thermal transport measurements of thermoelectric materials by the photoacoustic technique: from bulk to nano.”
 - **Supervisor:** Prof. Marisol Martín-González.
 - **Current Position:** Group Leader at the University of Basel (Switzerland) since February 2023, via the PRIMA grant.
- **Marta Rull (2016)**
 - **Thesis Title:** “Nano-engineering of squarudite material for high performance in thermoelectric power conversion devices.”
 - **Supervisor:** Prof. Marisol Martín-González.
 - **Current Position:** Compulsory secondary education teacher.
- **Miguel Muñoz (2015)**
 - **Thesis Title:** “Transport Property Measurements of Nanostructured Materials.”
 - **Supervisor:** Prof. Marisol Martín-González.
 - **Current Position:** Tenured Scientist at ICMN-CSIC and Associate Professor at the University of Twente (Netherlands).
- **Cristina Vicente (2014)**
 - **Thesis Title:** “Electrodeposition of semiconductor materials for thermoelectric applications.”
 - **Supervisor:** Prof. Marisol Martín-González.
 - **Current Position:** CSIC Tenured Scientist in the FINDER group.
- **Cristiana Sonia-Steplecaru (2012)**
 - **Thesis Title:** “Synthesis and characterization of ZnO thin films and ZnO: Co system.”
 - **Supervisor:** Prof. Marisol Martín-González.

Experience in R&D Activity Organization

- **Organizer of the E-MRS symposium on Thermoelectrics**
 - **Role:** Organizer and Chair
 - **Scope:** International
 - **Date:** May 22-26, 2024
 - **Location:** Seattle, USA
- **Organizer of the E-MRS symposium H on Inorganic Thermoelectrics**
 - **Role:** Organizer and Chair
 - **Scope:** International
 - **Date:** May 22-26, 2017
 - **Location:** Strasbourg, France
- **European Conference of Thermoelectrics ECT 2014 (for 285 attendees)**
 - **Role:** Organizer and Chair
 - **Scope:** International
 - **Date:** September 24-26, 2014
 - **Location:** Madrid, Spain
- **5th Japan-Spain International Workshop: Strategic Japanese-Spanish Cooperative Program Nanotherma**
 - **Type:** Workshop

- **Scope:** International
 - **Date:** March 13, 2013
- **2nd European Workshop on Electrochemical Deposition of Thermoelectric Materials**
 - **Type:** Workshop
 - **Scope:** International
 - **Date:** October 4-5, 2012
- **1st Japan-Spain International Workshop: Strategic Japanese-Spanish Cooperative Program Nanotherma**
 - **Type:** Workshop
 - **Scope:** International
 - **Date:** March 30-31, 2011

Positive Evaluations

- **Research Merits (quinquenios):** 5 sections (1996-2019).
- **Research Activity (sexenios):** 6 sections (1995-2024), comprising 5 scientific and 1 technological.

Part D. Other – Distinguished International and National Recognition

- **2024:** Margarita Salas Medal for Excellence in Mentorship.
- **2023:** Research Excellence Award from the Spanish Royal Society of Chemistry.
- **2022:** Corresponding Academician of the Royal Academy of Sciences.
- **2020-2024:** Member of the ERC Synergy Project Evaluation Panel.
- **2011:** Founding Member of the Executive Board of the European Thermoelectric Society.
- **2005:** Finalist for the European Descartes Prize for the HIDEMAR Project.