

Part A. PERSONAL INFORMATION

CV date 17/10/2023

First and Family name	José Ignacio Pérez de Landazábal Berganzo		
Social Security, Passport, ID number	16280203K	Age	57
Researcher numbers	Researcher ID	H-9712-2015	
	Orcid code	0000-0003-1172-6141	

A.1. Current position

Name of University/Institution	Public University of Navarra		
Department	Science		
Address and Country	Ed. los Acebos, Campus de Arrosadía, 31006 Pamplona - Spain		
Phone number	948168448	E-mail	ipzlanda@unavarra.es
Current position	Full Professor	From	14/06/2019
Espec. cód. UNESCO	221101,221105,221108,221112,221117,221119,221121,221129		
Palabras clave	Ferromagnetic shape memory alloys, magnetic nanoparticles, phase transformations,		

A.2. Education

PhD	University	Year
Science (Physics)	Basque Country University	1995

A.3. JCR articles, h Index, thesis supervised...

JCR Articles: 153 h Index: 27 Number of Sexenios: 5 (3/5/2022)

Thesis supervised: 4 Times cited: 2.7k

JCR Articles: 187

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

Dr. J.I. Perez-Landazábal is Professor in the Public University of Navarra. His main research interests is focused on the field of Materials Physics, analysis of their properties and microstructural and magnetic characterization. He has participated in the development of 34 research projects funded by regional, national and international entities, 7 of them as Principal Investigator. All the work done was reflected in 187 publications in the Science Citations Index - SCI and other 22 publications with evidence of demonstrable quality. It has also presented the work in more than 185 conference communications, mainly international. Participates in 2 patented inventions with copyright registration. He has been responsible for 7 small R&D contracts with technological centers. He has acted as referee for several international scientific journals, evaluation committees and in various international conferences organized periodically by scientific societies. 1st Prize in the SienceEkaitza awards (selected by Nobel prizes) promoted by the Navarra Government. (<http://www.sciencekaitza.com>). He has been involved in research management tasks:

- Deputy Director of the Department of Physics UPNa from 10/10/01 to 29/4/04 and from 17/4/2008 to 15/04/2012.
- Member of the Research Commission of the UPNa from May 2008 to May 2012
- Member of the board of FideNa (Research and Development Foundation Nanotechnology) from 11 November, 2011 until 19 April 2013.
- From December 17, 2014 to January 1, 2019, Director of the Institute for Advanced Materials (INAMAT) of UPNa (<http://www.unavarra.es/inamat>).
- 2015-2018, Director of the Aditech Corporation Chair (<http://www.unavarra.es/catedra-aditech>).

Part C. RELEVANT MERITS

C.1. 10 Relevant publications in the last 5 years (2018-2022)

1. López-García J; Unzueta I; Sánchez-Alarcos V; Recarte V; Pérez-Landazabal JI; Rodríguez-Velamazán JA; García JA; Plazaola F
Correlation between defects and magneto-structural properties in Ni-Mn-Sn metamagnetic shape memory alloys
Intermetallics 94, 94-137 (2018)
2. Beato-López, J.J.; Pérez-Landazábal, J.I.; Gómez-Polo, C.
Enhanced magnetic nanoparticle detection Sensitivity in Non-linear Magnetoimpedance-based sensor
IEEE Sensors Journal 18 (21), 8701-8708 (2018)
3. Unzueta I; Sánchez-Alarcos V; Recarte V; Pérez-Landazabal, Zabala N; JI; García JA; Plazaola F.
Identification of a Ni-vacancy defect in Ni-Mn-Z (Z = Ga, Sn, In): An experimental and DFT positron-annihilation study
Physical Review B 99 (2019) 064108-1
4. I. Unzueta, D. Alonso de R-Lorente, E. Cesari, V. Sánchez-Alarcos, V. Recarte, J. I. Pérez-Landazábal, J. A. García and F. Plazaola
Experimental Observation of Vacancy-assisted Martensitic Transformation Shift in Ni-Fe-Ga Alloys
Physical Review Letters 122 (2019) 165701:1-7
5. J.I. Pérez-Landazabal, V. Recarte, V. Sánchez-Alarcos, M. Jiménez-Ruiz, E. Cesari
Outstanding role of the magnetic entropy in arrested austenite in an ordered $Ni_{45}Mn_{36.7}In_{13.3}Co_5$ metamagnetic shape memory alloy
Scripta Materialia 168 (2019) 91-95
6. Bonifacich F. G.; Lambri O. A.; Recarte V.; Sánchez-Alarcos V.; Pérez-Landazábal J. I
Magnetically tunable damping in composites for 4D printing.
Composites Science and technology 201 (2021) 108538-108543
7. L. Cervera, J.I. Peréz-Landazábal, E. Garaio, M. Monteserín, S. Larumbe, F. Martín, C. Gómez-Polo
Fe-C nanoparticles obtained from thermal decomposition employing sugars as reducing agents
Journal of Alloys and Compounds 863 (2021) 158065
8. V. Sánchez-Alarcos, V. Recarte, D.L.R. Khanna, J. López-García, J.I. Pérez-Landazábal
Deformation induced martensite stabilization in $Ni_{45}Mn_{36.7}In_{13.3}Co_5$ microparticles
Journal of Alloys and Compounds 870 (2021) 159536
9. Paulo La Roca, Javier López-García, Vicente Sánchez-Alarcos, Vicente Recarte, José Alberto Rodríguez-Velamazán, José Ignacio Pérez-Landazábal
Room temperature huge magnetocaloric properties in low hysteresis ordered Cu-doped Ni-Mn-In-Co alloys
Journal of Alloys and Compounds 922 (2022) 166143
10. Eneko Garaio, Paulo La Roca, Cristina Gómez-Polo, Vicente Sánchez-Alarcos, Vicente Recarte, José Ignacio Pérez-Landazábal
Martensitic transformation controlled by electromagnetic field: From experimental evidence to wireless actuator applications
Materials & Design 219 (2022) 110746

C.2. Research projects and grants

1. Aleaciones con memoria de forma de Cu-Al-Ni elaboradas por pulvimetalurgia (MAT2000-1676-C02-02)

PI: J.I Pérez de Landazábal Berganzo

Funding entity: Ministerio de Educación y Ciencia

Duration: 28/12/2000 – 27/12/2003

Funding received: 74.718 €

2. Efecto magnetocalórico en aleaciones con memoria de forma ferromagnéticas (Res. 228/2008-2305)

PI: J.I Pérez de Landazábal Berganzo

Funding entity: Dept. de Educación - Gobierno de Navarra

Duration: 01/07/2008 – 30/06/2010

Funding received: 54.996 €

3. Nanopartículas Magnéticas multifuncionales para la detección y tratamiento de Biofilms (MNP Biofilms)

PI: J.I Pérez de Landazábal Berganzo

Funding entity: Dpto. De Innovación, Empresa y Empleo - Gobierno de Navarra

Duration: 01/05/2009 – 30/04/2012

Funding received: 201.915 €

4. Aleaciones con memoria de forma metamagnéticas. Efectos magnetoestructurales en la transformación martensítica inducida por campo magnético (MAT2009 07928)

PI: J. I. Pérez de Landazábal Berganzo

Funding entity: Ministerio de Ciencia e Innovación

Duration: 01/01/2010 – 31/12/2012

Funding received: 60.500 €

5. Propiedades multifuncionales y defectos en micro y nanopartículas de aleaciones con memoria de forma ferromagnéticas

PI: J. I. Pérez de Landazábal Berganzo

Funding entity: Ministerio de Economía y Competitividad (MAT2015-65165-C2-1-R).

Duration: 01/01/2016-30/09/2019

Funding received: 133.100 Euros

6. Advanced Manufacturing of Electronics (PC017-018 AMELEC)

PI: J. I. Pérez de Landazábal Berganzo

Funding entity: Gobierno de Navarra-Departamento de Desarrollo Económico

Duration: 01/01/2020 - 30/11/2022

Funding received: 211.888,44 €

7. Sustainable development of 3D functional materials for electromagnetic noise mitigation (PC003-004 3D-MAGNET)

PI: J. I. Pérez de Landazábal Berganzo

Funding entity: Gobierno de Navarra-Departamento de Desarrollo Económico

Duration: 01/12/2022 - 30/11/2024

Funding received: 223.640,26 €

C.3. Contracts

1. Several short projects with the Fundación Investigación y Desarrollo en Nanotecnología (FIDeNa). From 12/01/2011 to 25/01/2011, 05/04/2011 to 19/04/2011, 27/07/2011 to 24/08/2011, 09/11/2012 to 07/12/2012. (~1500 €) IP: Pérez de Landazábal Berganzo, José Ignacio

2. “Análisis nanoarcillas” with FUNDACIÓN CETENA (CEMITEC). From 06/11/2013 to 05/12/2013 (~100 €) IP: Pérez de Landazábal Berganzo, José Ignacio

3. “Medidas de Imanación a bajos y altos campos en el Magnetómetro SQUID” (O.T.R.I. 2022908108) with Centro Nacional Instituto Geológico y Minero de España (CN IGME-CSIC) from 09/06/2022 to 09/9/2022. PI: Pérez de Landazábal Berganzo, José Ignacio (1.981,98 €)

C.4. Patents

1. Ferromagnetic shape-memory wires, production method thereof and use of the same.

Authors: Vázquez Villalabeitia, Manuel; Pérez de Landazabal Berganzo, José Ignacio; Recarte Callado, Vicente; Gómez Polo, Cristina; Sánchez Alarcos, Vicente; Badini Confalonieri, Giovanni

Priority Territory: Spain

Number of priority application: ES P200700545, Priority: 01/03/2007

Holders entities: Consejo Superior de Investigaciones Científicas - CSIC, Universidad Pública de Navarra

EXTENSIONS: Territory: Spain Date: 01/03/2007 Application Number: ES P200700545. Territory:

Patent Co-operation Treaty Date: 27/02/2008 Application Number: PCT/IB2008/051638

2. Dispositivo multifuncional basado en recubrimientos de óxidos cerámicos con simetría cilíndrica.

Authors: Gómez Polo, Cristina; Gil Bravo, Antonio; Korili Sophia; Pérez de Landazabal Berganzo, José Ignacio; De la Cruz Blas, Carlos Aristóteles; Olivera Cabo, Jesús; Armañanzas Soto, Javier; Mendizabal Pérez, Itziar

Priority Territory: Spain

Number of priority application: ES P201130262, Priority date: 28/02/2011

Holders entities: Universidad Pública de Navarra

EXTENSIONS: Territory: Spain. Date: 28/02/2011 .Application Number: ES P201130262

C.5 Institutional Responsibilities

1. Director of the Institute for Advanced Materials (INAMAT) of UPNa from December 17, 2014 to January 1, 2019 (<http://www.unavarra.es/inamat2/>)

2. Member of the Academic Committee of the Doctoral Program in Science and Industrial Technology from October 11 2013 to May 2015.

3. Deputy Director of the Physics Department from 01/10/10 to 04/29/04 and from 17/4/ 2008 to 15/4/2012

4. Member of the Research commission (UPNa) from May 21, 2008 to 2 July 2012.

5. Head of the research group Physical Properties and Materials Applications from 04/02/2004 until 22/2/2010.

6. Member of the board of FideNa (Foundation Nanotechnology Research and Development) from November 11, 2011 until April 19, 2013.

7. Director of the Aditech Corporation Chair from October 16, 2015 to 2018

C.6 Scientific Awards

1st Prize in the SienceEkaitza awards (selected by Nobel prizes) promoted by the Navarra Government. (<http://www.sciencekaitza.com>)

C.7 Evaluation processes

1. Participation in the evaluation process of the Committee of Energy Technology, Mechanics, Mining and Materials of the National Agency for Scientific and Technological Promotion in Argentina.

2. Participation in the evaluation process of the MANUNET European program.

3. Member of the Evaluation Committee Unibasq, Quality Agency of the Basque University System

4. Membership of the bank of experts of the State Investigation Agency (AEI). Ministry of Science and innovation

C.8 Other activities

1. Editor Journal of Physics: conference series, Vol.663 (2015).

2. Member of the organizing Committee of the IV National Congress of mechanical properties of solids. Date: 29/6/1997-1/7/1994.

3. Member of the organizing Committee of the International Conference on Internal Friction and Ultrasonic Attenuation in Solids 13 (ICIFUAS 13). Date: 8-12/07/ 2002.

4. Member of the organizing Committee of the 2nd International Conference on Ferromagnetic shape memory alloys (ICFSMA 09). Date: 1-3/07/ 2009.

5. Co-Chairman of the VII Meeting of the SETN (Spanish Society of Neutron Techniques). Date: 22-25/06/ 2014.