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Education:

- Ph.D. Physics (European Ph.D) Summa Cum Laude, *Universidad del País Vasco*, Dept. of Physics, Spain, 2007.
Thesis Title: "Magnetic and structural properties of amorphous wires and microwires"
- M.Sc. Applied Physics, *University of Oviedo*, Dept. of Physics, Spain, 2000.
Research on new electromagnetic techniques in therapy of human tissues at the Program of Magnetic Materials and Applications.
- Teaching Certificate European Accreditation, *Universidad de Oviedo*, Institute of Education, Spain, 1999.
- M.S. Management and Development of Telecommunications and Information, *Fundación Escuela de Organización Industrial* and *University of Oviedo*, Spain, 1999.
- BSc in Physical Science with a specialization in Solid-State Physics, *Universidad de Oviedo*, Spain, 1998.
- BSc in Computer Science Engineering, with a specialization in System Engineering, *Universidad de Educación a Distancia*, Spain, ongoing.

Academic Positions and Research Appointments:

- Associate Professor, Dept. of Physics, *UTFSM*, Valparaiso, Chile, 2013.
- Research Affiliate, Centro Científico y Tecnológico de Valparaíso (CCTVal), Valparaiso, Chile, 2015
- Associate Professor, Dept. of Physics, *Bogazici University*, Turkey, 2011-2013.
- Postdoctoral Fulbright Fellow and Associate, *Massachusetts Institute of Technology* Dept. of Materials Science and Engineering and Nanostructures Laboratory at Dept. Electrical Engineering and Computer Science, *USA*, 2008-2011.
Development of GMI magnetic sensors for automobile and telecommunication companies. Fabrication of arrays of small magnetic and magnetoresistive particles using e-beam lithography. Characterization of their magnetic and transport properties at high frequency.
- Researcher, *Universidad del País Vasco*, Dept. of Material Physics, Spain, 2007-2008.
Research on structural, magnetic and transport properties of materials with magneto-caloric and shape effect.
- Graduate Research Assistant, *Universidad de País Vasco*, Dept. of Material Physics, Spain, 2003-2007.
Research on the structural, magnetic and transport properties at high frequencies of Fe and Co based microwires alloys.
- Teaching and Research Assistant, *Universidad Nacional de Córdoba*, Dept. of Physical Chemistry, Argentina, 2001-2003.

Visiting Researcher

- *Universidade do Porto*, Dept. of Physics, Portugal, December 2018-January 2019
- *ALBA Synchrotron*, Barcelona, September 2018
- *P. J. Safarik University*, Institute of Physics, Slovakia, September 2018.
- *INESC*, Lisbon, Portugal, February 2018
- *Universidade de Porto*, Dept. of Physics, Portugal, January 2018
- *Massachusetts Institute of Technology*, Dept. of Material Science and Engineering, USA, November 2017.
- *Instituto Catalan de Nanociencia y Nanotecnologia*, Spain, July-August 2017
- *Universidad del País Vasco*, Dept. of Materials Physics, Spain, May 2017.
- *Universidad de Oviedo*, Dept. of Physics, Spain, May 2017.
- *Middle East Technical University*, Dept. of Physics, Ankara, Turkey, May 2017
- *Universidad del País Vasco*, Dept. of Materials Physics, Spain, December 2016.
- *Instituto de Magnetismo Aplicado-UCM*, Madrid, Spain, December 2016
- *Massachusetts Institute of Technology*, Dept. of Material Science and Engineering, USA, December 2015.
- *Nanjing University*, Dept. Physics, Nanjing, China, July-August 2016
- *Goteborg University*, Dept. of Physics, Goteborg, Sweden, July 2016
- *Instituto de Ciencia de Materiales de Barcelona*, Spain, July 2016.
- *Universidad de Antioquia*, Dept. Physics, Medellin, Colombia, April 2016
- *Massachusetts Institute of Technology*, Dept. of Material Science and Engineering, USA, November- December 2015.
- *Instituto de Ciencia de Materiales de Barcelona*, Spain, July and October 2015.
- *Universidad del País Vasco*, Dept. of Physics, Spain, October 2015.
- *Universidad del País Vasco*, Dept. of Materials Physics, Spain, February 2015.
- *Goteborg University*, Dept. of Physics, Goteborg, Sweden, January 2015
- *Goteborg University*, Dept. of Physics, Goteborg, Sweden, July 2014
- *Massachusetts Institute of Technology*, Dept. of Material Science and Engineering, USA, April 2014 (one week).
- *Bogazici University*, Dept. of Physics, Istanbul, Turkey, January-February 2014
- *University of South Florida*, Dept. of Physics, Tampa, USA, July 2013.
- *Instituto Potosino de Investigación Científica y Tecnológica (IPICYT)*, Potosi, Mexico, 8-15 August 2011.
- *Massachusetts Institute of Technology*, Dept. of Material Science and Engineering, USA, July- September 2011.
- *Universidad del País Vasco*, Dept. of Materials Physics, Spain, January 2011.
- *P. J. Safarik University*, Institute of Physics, Slovakia, March 2008.
- *Nagoya University*, Dept. of Electrical Engineering, Japan, April-August 2007.
- *Polish Academy of Science*, Dept. of Physics of Magnetism, Poland, October 2006.
- *Universidade Estadual de Campiñas*, Dept. de Física da Materia Condensada, Instituto de Física Gleb Wataghin, Brazil, October- December 2005 and March-June 2006.
- *University of Plymouth*, Centre for Research in Information Storage Technology, UK April-September 2005.
- *École Polytechnique*, Research Group in Physics and Technology of Thin Films, Dept. of Engineering Physics. Canada, July-August 2003 and June- September 2004.

Teaching Research Stays

- Specialization teaching stay on Active Learning Technique performed at Harvard, MIT y Tufts Universities from April 5th–13th, 2014. (MECESUP FSM-1106, Desarrollo de competencias transversales en estudiantes de ingeniería de primer año).

Research Grants Awarded

Experience in writing scientific proposals with a high percent of success

- Project: Nucleo Milenio de Formacion Planetaria
Funding entity: Nucleo Milenio, Valparaiso, Chile
Main researcher: Amelia Bayo
Associate Researcher: Carlos Garcia et al. Member from 3/2019-....
- Project: Correlation among structural properties, the magneto-optical response and the microwave magnetic properties in iron garnets
Funding Entity: H2020-NFFA, ID: 571 EU. 2018-2019
Main researcher: Carlos Garcia
- Project: Respuesta Dinámica de tubos compuestos de partículas magnéticas esféricas discretas. Teoría y experimento.
Funding Entity: Concurso Atracción de Capital Humano Avanzado. Modalidad Estadías Cortas -MEC- 2017. MEC80170122. From 18-02-2018 to 13-01-2019.
Main researchers: Igor Stankovic and Carlos Garcia (Sponsor)
- Project: Fabrication and characterization of magnetic metamaterial for remote sensing of internal stresses in tyres.
Funding Entity: FONDEF-IDEAS, CONICYT, ID16I10048, 01/2017-07/2019
Main researcher: Carlos Garcia, Colinvestigadors: Christopher Cooper, Cristian Acevedo, Felipe Chacana.
- Project: Novel magnetic nanostructures for medical applications (MAGNAMED).
Funding Entity: H2020-MSCA-RISE, ID: 734801 EU, 03/2017-03/2021
Responsible of Local Entity (UTFSM): Carlos Garcia
Partners:
 - EHU: Universidad del País Vasco (Spain) → Group leader
 - IMG: IMG Pharma Biotech (Spain)
 - NanBio: Nanovex Biotechnologies (Spain)
 - UCM: Universidad Complutense de Madrid (Spain)
 - INESC: Microsistemas e Nanotecnologias-Instituto de Engenharia de Sistemas de Computadores para os Microsistemas e as Nanotecnologias (Portugal)
 - UP: Universidade do Porto (Portugal)
 - ICETA: Instituto de Ciencias, Tecnologias e Agroambiente da Universidade do Porto (Portugal)
 - GTU: Gebze Technical University (Turkey)
 - GMBH: Vienna Biocenter Core FACILITES GMBH (Austria)
 - CDTN: Centro de Desenvolvimento da Tecnologia Nuclear (Brazil)
 - UNICAMP: Universidade Estadual de Campinas (Brazil)
 - UCLR: The Regents of the University Of California (USA)
 - UT: University of Texas at San Antonio (USA)
 - CEDENNA: CEDENNA (Chile)
 - UTFSM: Universidad Técnica Federico Santa Maria (Chile)
- Project: Magnetic metamaterials for the remote detection of material stress.
Funding entity: InES, FC_FSM1402_01_11
Main researcher: Carlos Garcia, Colinvestigadors: Christopher Cooper, Cristian Acevedo
- Project: Propiedades magnéticas de nanoestructuras autoensambladas en oxidos funcionales.
Funding Entity: CSIC (COOPA20106), Chile, 26/11/2015-31/12/2017.
Main researcher: Carlos Garcia (UTFSM, Chile) & Alberto Pomar (ICMAB, Spain)
- Project: Biofunctionalized magnetic-vortex microdiscs for targeted cancer-cell destruction
Funding Entity: CONICYT-Chile, IRD-France (18/PCI/174), Chile, 28/4/2015-1/12/2015.
Main researcher: Carlos Garcia (UTFSM, Chile) & Rafael Morales (UPV-EHU, Spain)

- Project: Sistema de caracterización de materiales a temperaturas criogénicas y campos magnéticos altos.
Funding Entity: FONDEQUIP (EQM150094), Chile, 11/2015-3/2017.
Main researcher: Carlos Garcia & Patricio Vargas
- Project: Experiments on hadrons with electroweak probes: fundamental physics and technology development.
Funding entity: Anillo 11063, Valparaiso, Chile, 1/2016-12/2018.
Main researcher: William Brooks
Coinvestigador: Carlos Garcia et al.
- Project: Desarrollo de Sistemas Melt-spining para la fabricación de aleaciones magnéticas y estudio teórico-experimental de sus propiedades dinámicas.
Funding Entity: Internal Project DGIP (11.15.57), Chile, 3/2013-12/2015.
Main researcher: Carlos Garcia
- Project: Magnetization Dynamics in Perturbed Films and Magnonic Crystals.
Funding Entity: CONICYT-DAAD (PCCI140051)
Main researcher: Pedro Landeros
Coinvestigadores: Carlos Garcia, Rodolfo Gallardo
- Project: Designing Advanced Functionalities through controlled NanoElement integration in OXide thin films.-“DAFNEOX”. <http://projects.icmab.es/dafneox/>
Funding Entity: H2020-MSCA-RISE, ID: 645658 EU, 6/2015-6/2018
Responsible of Local Entity (UTFSM): Carlos Garcia
Partners:
ICMAB: Institute of Materials Science of Barcelona (Spain) → Project leader
ICN: Catalan Institute of Nanotechnology (Spain)
KULeuven: University of Leuven (Belgium)
TUDELFT: Technische Universiteit Delft (Holanda)
IPB: Institut za Fiziku u Beogradu (Serbia)
SI: Senzor-infiz (Serbia)
UC: Universidad de Chile (Chile)
UTFSM: Universidad Técnica Federico Santa Maria (Chile)
- Project: Magnetic Relaxation Phenomena in Ferromagnetic Thin Films with Tilted Anisotropy.
Funding Entity: MIT, USA, 12/2014- 9/2016.
Main researcher: Carlos Garcia
- Project: Sputter deposition system for sensor applications (\$450.000)
Funding Entity: FONDEQUIP (EQM140161), Chile, 11/2014-3/2016.
Main researcher: Carlos Garcia
- Project: Static and dynamic magnetic properties of magnetic patterned nanostructures and thin films.
Funding Entity: FONDECYT Regular (1140552), Chile, 3/2014-3/2018.
Main researcher: Carlos Garcia
Coinvestigadores: Pedro Landeros, Patricio Vargas
- Project: Magnetic and electronic properties of novel materials.
Funding Entity: FONDECYT Regular (1130950), Chile, 3/2013-3/2016.
Main researcher: Patricio Vargas
Coinvestigadores: Carlos Garcia, Juan Manuel Florez y Eric Suarez
- Project: Static and dynamic magnetic properties of coupling effects in magnetic patterned nanostructures.
Funding Entity: Internal Project DGIP (111323), Chile, 5/2013-5/2015.
Main researcher: Carlos Garcia
- Project: Experimental and theoretical study of the effect of electromagnetic radiation on magnetic nanostructures.
Funding Entity: FONDECYT Insercion (79140033), Chile, 11/2014-11/2017.
Researcher: Rodolfo Gallardo

Researcher Coordinator: Carlos Garcia

- Project: Coupling effects in magnetic patterned nanostructures (COEF-magNANO)
Funding Entity: FP7-PEOPLE-2012-IRSES EU, ID: 318901, 01/2013-12/2016
Responsible of Local Entity (UTFSM): Carlos Garcia
Partners:
 - EHU: Universidad del País Vasco (Spain) → Group leader
 - CNRS: Unité Mixte de Physique - CNRS/Thales (France)
 - ICN: Catalan Institute of Nanotechnology (Spain)
 - UB: Universitat de Barcelona (Spain)
 - BU: Bogazici University (Turkey)
 - CDTN: Centro de Desenvolvimento da Tecnologia Nuclear (Brazil)
 - UCSD: University of California San Diego (USA)
 - UNICAMP: Universidade Estadual de Campinas (Brazil)
 - USF: University of South Florida
 - PUC: Pontificia Universidad Católica de Chile (Chile)
 - CAB: Centro Atómico Bariloche (Argentina)
 - UTFSM: Universidad Técnica Federico Santa Maria (Chile)
- Project: Nanomagnetism and spintronic
Funding Entity: BAP Infrastructure, Turkey, 4/2011-4/2013.
Main researchers: Carlos Garcia & Ozhan Ozatay
- Project: Microwave Assisted Magnetization Reverse (MAMR)
Funding Entity: BAP Project, Turkey, 3/2011-3/2014.
Main researcher: Carlos Garcia
- Project: Development of GMI autobiasd sensors based on exchange bias effect
Funding Entity: MIT, USA, 12/2010- 9/2012.
Main researcher: Carlos Garcia
- Project: Study of magnetic anisotropy in amorphous and nanocrystalline microwires
Funding Entity: Ministerio de Asuntos Exteriores y de Cooperación, 01/2004-12/2005.
Main researcher: Dr. A. Zhukov y Dr. R. Zuberek
- Project: Magnetization process and magnetotransport in designed materials
Funding Entity: Ministerio de Educación y Ciencia, 12/2004-12/2007.
Main researcher: Arkady Zhukov
- Project: Fabrication Characterization of nanomaterial exhibiting magnetocaloric effect at high temperature
Funding Entity: Ministerio de Educación y Ciencia (Acción Estratégica de Nanociencia y Nanotecnología), 12/2005- 12/2008
Main resercher: Julián María González Estévez

Other Awards and Fellowships

- Doctoral Fellowship (FPI), Spanish Ministry of Science and Technology 2003
- Postdoctoral Fellowship, Fulbright Scholar Program, 2008
- Postdoctoral Scholarship, The National Scholarship Programme of the Slovak Republic 2008
- Postdoctoral Basque Country Fellowship 2008 (Declined)

Professional Service

- Journal Referee for; Journal of Applied Physics, Applied Physics Letters, Nanotechnology, Scientific Reports, Journal of Physics D; Applied Physics, Journal of Materials Research, Journal of Magnetism and Magnetic Materials, IEEE Trans. on Magnetics, Physica Status Solidi, etc.

- Proposal Reviewer for ANEP-Spain (Agencia Nacional de Evaluación y Prospectiva), Marie Curie (FP7, Horizon 2020), TUBITAK-Turkey (Scientific and Technological Research Council of Turkey), CONICYT-Chile (Comisión Nacional de Evaluación Científico y Tecnológica), CONICET-Argentina (Consejo Nacional de Investigaciones Científicas y Técnicas)
- Member of the organizing committee for the International Congress of Magnetism: III Joint European Magnetic Symposia, 2006, San Sebastian, Spain and the International Congress of Magnetism: Recent Trends in Nanomagnetism, Spintronics and their Applications, 2010, Ordizia, Spain.
- Member of the organizing committee for the Escuela de Nanoestructuras: 2015, 2018, 2019, Valparaiso, Chile.

Courses Taught

- Introduction to Physics (Physics 100). UTFSM
- General Physics (Physics 110). UTFSM
- Experimental Physics Undergraduate (FIS 200). UTFSM
- Experimental Physics Postgraduate (FIS 300). UTFSM
- Laboratory of Advance Physics (FIS 469). UTFSM
- Topics in Condensed Matter. Introduction to nanofabrication and characterization techniques (FIS 495). UTFSM
- Electricity and Magnetism (Physics 201). *Bogazici University*.
- Solid State Physics (Physics 462). *Bogazici University*.
- Solid State Physics II (Physics 641). *Bogazici University*.
- Introduction to Research I (Physics 491). *Bogazici University*.
- Introduction to Research II (Physics 492). *Bogazici University*.
- Special Topics in Physics: Nanofabrication. *Bogazici University*.
- Special Topics in Physics: Sensors and Actuators. *Bogazici University*.
- Mathematics I, Mathematics II and Computation (as an instructor). *UNC*

Undergraduate's final research project and research internship:

- Sevde Arpacı, "Numerical analysis of experimental magnetocaloric parameters" (Bogazici)
- Kerim Ture, "Remote Control of the R&S ZVA40 Vector Network Analyzer" (Bogazici)
- Ufuk Kilic, "Micromagnetic simulation of the effect of microwave field on magnetic multilayers under external magnetic field" (Bogazici)
- Erkam Bodur, "Analysis of the change of entropy and refrigerant capacity in NiMnSn samples exhibiting magnetocaloric effect" (Bogazici)
- Adnan Basar, "Micromagnetic simulation of the ferromagnetic resonance in magnetic nanostructures" (Bogazici)
- Mary Wang, "Electrodeposited wires for GMI applications" (M.I.T)
- Brian Baum, "LabView programming" (M.I.T)
- Helena Liu, "Magnetic characterization of FeNi nanostructures" (M.I.T)

Master Thesis

- M. Hasan Kılınc "Dynamic properties of soft magnetic materials in the shape of thin films and ribbons" (Bogazici)
- Sema Guvenc "Magnetoelastic and magnetocaloric effect in Heulser alloys" (Bogazici)

PhD Thesis (in progress)

- Cristian Alberto Romanque Albornoz "Spincaloritronic" (UTFMS)
- Luis Ignacio Lizardi Varas "Coupling effect in magnetic multilayers and nanostructures" (UTFSM)
- Jorge Humberto Flores Farias "Magnetotransport properties of exchange biased layers" (UTFSM)

Postdoctoral advisor (in progress)

- Claudio Alejandro Gonzalez Fuentes, "Antiferromagnetic materials for spintronic applications", FONDECYT Postdoctoral 3190908.
- Pablo Jesús Ibarra Gaytán, "Materiales magnéticos para aplicaciones en tecnologías de refrigeración magnética y espintrónica", FONDECYT Postdoctoral 3190240

- Alejandro Andres Jara Abarzua, "Superconductor/ferromagnet proximity effects for low-power spintronics", FONDECYT Postdoctoral 3190632

Outreach

International Seminars Taught

- Graduate Physics Seminar, Sabanci University, Turkey, 4 May 2011.
- Graduate Physics Seminar, Universidad de Oviedo, Spain, 18-25 June 2011.
- Graduate Physics Seminar, Instituto Potosino de Investigación Científica y Tecnológica (IPICyT) and UASLP, Mexico, 8-15 August 2011.
- Physics Seminar, UTFSM, Valparaiso, Chile, 14-23 March 2012
- Graduate Physics Seminar, Universidad de Oviedo, Spain, 17-22 September 2012.
- Graduate Physics Seminar, University of South Florida, USA, 17 July 2013

Responsible and Coordinator of Bilateral Programs with:

- Universidad de Oviedo, Spain.
- Koc University, Turkey.
- P. J. Safarik University (UPJS), Institute of Physics, Slovakia.
- Universidad Nacional de San Martín (UNSAM), Argentina.

In media

- Article publication at USM News "Investigadores de la USM desarrollan proyecto enfocado al monitoreo de neumáticos mineros", 2017.
- Article publication at USM Technology Review "Investigadores de la USM desarrollan proyecto enfocado al monitoreo de neumáticos mineros", 2018.
- Article publication at USM Technology Review "MAGNAMED: proyecto de la USM busca la detección temprana del cáncer", 2018.
- Article publication at Noticias USM "Respuesta Dinámica de tubos compuestos de partículas magnéticas esféricas discretas. Teoría y experimento", 2018.

In schools

- Talk "Aplicaciones de la nanotecnología y la física de materiales", Colegio Cardenal Raul Silva Enriquez, Viña del Mar, 4 de Octubre del 2017.
- Talk "Aplicaciones de la nanotecnología y la física de materiales", Liceo Santa Teresa de los Andes, Viña del Mar, Program 1000 Científicos 1000 Aulas 2017

Current Research Lines

- Magnetoimpedance effect in multilayer systems, microwires and ribbons for sensing applications.
 - i. Asymmetrical magnetoimpedance sensors based on thin film technology. The magnetoimpedance response has been studied in exchange biased multilayered systems in order to induce a shift in the impedance response with the magnetic field
 - ii. Magneto impedance effect in glass coated microwires for sensor applications
- Fabrication and magnetic properties of nano-structures and multilayered magnetic materials
 - i. Spintronics effects and devices
Investigation of novel physical processes due to the interplay between spin currents and magnetization dynamics at the nano-scale, such as: spin accumulation, spin torque transfer, and spin waves generation.
 - ii. All-ferromagnetic exchange bias systems on nanostructures
Investigations of exchange bias effects using all-ferromagnetic layered systems have elucidated many aspects of the underlying physical mechanisms, including the training effect, as these material systems offer a novel pathway of tuning exchange bias and measuring related magnetic properties.

- iii. Magnetic and magnetotransport properties of ordered and disorder magnetic nanostructures (AAO membranes, magnetic nanowires and antidots structures)
- Magnetocaloric effect in Heusler alloys in the shape of magnetic microwires or ribbons

Current Collaborations

- *Massachusetts Institute of Technology*, Dept. of Materials Science and Engineering, Magnetic Materials and Devices Group, USA
- *University of New Orleans*, Advanced Materials Research Institute, USA
- *University of Goteborg*, Department of Physics, Sweden
- *Universidad del Pais Vasco*, Dept. of Materials Physics. Spain
- *Instituto Potosino de Investigación Científica y Tecnológica (IPICYT)*, Division de Materiales Avanzados, Mexico
- *Universidad de Oviedo*, Dept. of Physics, Spain
- *P. J. Safarik University, Institute of Physics*, Faculty of Science, Slovakia.

Professional Skills

Fabrication

- Magneto-electronic micro-device fabrication, over 2 years experience in clean-room lithography processing in the Nanostructures laboratory (NSL) at MIT, photolithography, mask and device design.
- Profound knowledge of deposition techniques used in magnetic Thin Film technology (RF & DC sputtering, Ion Beam Sputtering (IBS). Experience for running a UHV sputter system donated by IBM, with in-situ analysis capabilities.
- Fabrication of magnetic materials in the form of thin films, melt-spun ribbons, rapidly quenched wires and glass coated microwires.

Characterization

- *Structural characterization*: Electron microscopy techniques such as SEM and TEM. Force microscopy (AFM/MFM). XRD and DSC at low/high temperatures.
- *Magnetic characterization*: Extensive experience in the operation of temperature magnetometry techniques such as SQUID, PPMS, VSM, AGM and MOKE.
- *Electric characterization*: DC and high frequency.
- Magnetic, electric and structural characterization of magnetic materials in the form of thin films, melt-spun ribbons, rapidly quenched wires and glass coated microwire.

Setting-up equipment

- Design and automatic control of high frequency systems based on Network Analyzer.
- Device control and data acquisition through IEEE/GPIB interface (Labview, VEE).
- Expertise in designing magnetic field sources and sensors based on thin films magnetic structures and rapidly quenched magnetostrictive wires.

Computing Skills

- C, Fortran 90, C++, C sharp, Visual Basic 6.0, HTML, Modula 2
- Software Applications: MatLab, Origin, Labview, VEE, Comsol Multiphysics

Language

- Spanish. Native
- English. Fluent
- Portuguese. Intermediate

Contribution to International Congress

- More than 30 contributions (poster, oral and invited talks) in international conferences.

International Publications

- More than 70 ISI publications.

International Publications

1. "Asymmetrical Magnetoimpedance effect in Fe-rich amorphous wires"
C. Garcia, J Gonzalez, A. Chizhik, A. Zhukov, J.M. Blanco
Journal of Applied Physics, 95, 6756-6758 (2004)
2. "Investigation on magnetic structure in cold drawn Fe-rich amorphous wires"
A. Chizhik, C. Garcia, J. Gonzalez, J.M. Blanco
Journal of Magnetism and Magnetic Materials, 279, 359-362 (2004)
3. "Structural, Magnetic and Electrical Transport Properties in cold drawn thin Fe-rich wires"
C. Garcia, A. Chizhik, J.J. del Val, A. Zhukov, J.M. Blanco, J. Gonzalez
Journal of Magnetism and Magnetic Materials, 294, 193-201 (2005)
4. "Tensile Stress Influence on coercive properties in Fe-rich cold-drawn amorphous wires"
A. Chizhik, C. Garcia, P. Gawronski, A. Zhukov, J. Gonzalez, J.M. Blanco, K. Kulakowski
Journal of Magnetism and Magnetic Materials, 294, e167-e170 (2005)
5. "Two magnetic phases in cold drawn Fe-rich amorphous wire"
A. Chizhik, C. Garcia, J. Gonzalez, J.M. Blanco
Journal of Magnetism and Magnetic Materials, 290-291, 1472-1475 (2005)
6. "Effect of tensile stresses on GMI of Co-Rich amorphous microwires"
C. Garcia, A. Zhukov, V. Zhukova, M. Ipatov, J.M. Blanco, J. Gonzalez
IEEE Transaction on Magnetism, 41, n10, 3688-3690 (2005)
7. "Helical Magnetic Structure in Cold-Drawn Fe-rich Amorphous Wire"
A. Chizhik, C. Garcia, J. Gonzalez, J.J. del Val, J.M. Blanco, D.N. Merenkov, S.L. Gnatchenko, Y.A. Shakhayeva, A.N. Bludov
IEEE Transaction on Magnetism, 41, n10, 3250-3252 (2005)
8. "High-frequency GMI effect in different families of thin amorphous wires"
C. Garcia, A. Zhukov, J. Gonzalez, V. Zhukova, M. Ipatov, J.M. Blanco
Trans. Magn. Soc. Japan, 5, 148-151 (2005)
9. "Magnetic and Magnetotransport Properties in thin Fe-rich wires processed by cold-drawn".
C. Garcia, A. Chizhik, J.J. del Val, A. Zhukov, J.M. Blanco and J. González.
The Physics of Metal and Metallography, Vol. 102, Suppl. 1, pp. S8–S12 (2006).
10. "Stress dependence of coercivity in nanocrystalline Fe₇₉Hf₇B₁₂Si₂ glass-coated microwires"
C. Garcia, A. Zhukov, J. Gonzalez, V. Zhukova, R. Varga, J. J. Del Val, V. Larin, A. Chizhik, J.M. Blanco
Journal of Applied Physics, 99, 08F116-1 (2006)
11. "Structural, magnetic, and magnetostriction behaviors during the nanocrystallization of the amorphous Ni₅Fe_{68.5}Si_{13.5}B₉Nb₃Cu₁ alloy"
N. Iturriza, C. Garcia, L. Fernández, J.J. del Val, J. Gonzalez, J.M. Blanco, G. Vara, A.R. Pierna
Journal of Applied Physics, 99, 08F104-1 (2006)
12. "Study of surface magnetic properties in Co-rich amorphous microwires"
A. Chizhik, C. Garcia, J. Gonzalez, A. Zhukov, J.M. Blanco
Journal of Magnetism and Magnetic Materials, 300, e93-e97 (2006)
13. "High-frequency magnetoimpedance in amorphous and nanostructured Fe_{73.5}Si_{13.5}B₉Cu₁Nb₃ wires"
B. Hernando, J. Olivera, J.D. Santos, M.L. Sanchez, P. Gorria, C. Garcia, J.M. Blanco, A. Zhukov, J.L. Sanchez Ll.
Journal of Magnetism and Magnetic Materials, 300, 24-28 (2006)

14. "Influence of the ac magnetic field frequency on the magnetoimpedance of amorphous wires"
A. P. Chen, C. Garcia, A. Zhukov, L. Domínguez, J.M. Blanco, J. Gonzalez
Journal of Physics D: Applied Physics, 39, 1717-1723 (2006)
15. "Experimental demonstration of tunable scattering spectra at microwave frequencies in composite media containing CoFeCrSiB glass-coated amorphous ferromagnetic wires and comparison with theory".
D. P. Makhnovskiy and L. V. Panina, C. Garcia, A. P. Zhukov, and J. Gonzalez
Physical Review B, 74, 064205 (2006)
16. "Studies of structural and magnetic properties of glass-coated nanocrystalline Fe₇₉Hf₇B₁₂Si₂ microwires"
C. Garcia, A. Zhukov, J. Gonzalez, V. Zhukova, R. Varga, J.J. Val, V. Larin, J.M. Blanco
Journal of Alloys and Compounds, 423, 116–119 (2006)
17. "Soft magnetic behaviour of nanocrystalline Fe-based glass-coated microwires"
C. Garcia, A. Zhukov, M. Ipatov, V. Zhukova, J.J. Del Val, L. Domínguez, J.M. Blanco, V. Larin, J. González
Journal of Optoelectronics and Advanced Materials Vol. 8, No. 5, 1667–1671, (2006)
18. "Giant magneto-impedance effect in thin amorphous wires at elevated frequencies"
C. García, A. Zhukov, J. Gonzalez, V. Zhukova, J. M. Blanco.
Journal of Optoelectronics and Advanced Materials Vol. 8, No. 5, 1706–1709 (2006)
19. "Investigation of surface magnetization reversal in Co-rich amorphous microwires with magnetoimpedance effect"
A. Chizhik, C. Garcia, A. Zhukov, J. Gonzalez, L. Dominguez, J.M. Blanco
Physica B: Condensed matter, Vol. 384, Issues 1-2, pages 5-8 (2006).
20. "Surface and bulk magnetic hysteresis loops of Co-rich glass covered microwires"
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