

# *Curriculum Vitae*

**Julián González**

## **Present Position:**

Professor Dr.  
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## **Education:**

Master on Physics in Solid State, June 1977  
Faculty of Physics, University of Navarra, San Sebastian (Spain)  
PhD in Physics in 1987, Faculty of Sciences, Basque Country University, Bilbao (Spain)  
PhD Thesis Title: "*Induced Magnetic Anisotropies by Current Annealing in Metallic Glasses*"

## **Academical Experience:**

1976-1978	PhD student, University of Navarra, Spain Investigations on Microwaves Propagation
1978-1988	Assistant Professor, Department of Applied Physics, School of Engineering Basque Country University, San Sebastian, Spain Lectures on General Physics, Investigations on Induced Magnetic Anisotropies In Metallic Glasses
1988-1998	Assistant Professor, Department of Materials Physics, Faculty of Chemistry Basque Country University, San Sebastian, Spain Lectures on General Physics, Investigations on Magnetic Properties of Amorphous and Nanocrystalline alloys
1998-...	Professor, Department of Materials Physics, Faculty of Chemistry Basque Country University, San Sebastian, Spain Lectures on General Physics, Investigations on Magnetic Properties of amorphous and nanocrystalline alloys
1985 (9 m.)	Laboratory of Magnetism, Faculty of Physics, University Complutense, Madrid, Spain Induced Magnetic Anisotropies in Metallic Glasses
1986 (2 m.)	Laboratory of Magnetism, Faculty of Physics, University Complutense, Madrid, Spain Dynamic Magnetoelasticity in Amorphous Materials
1988 (2 m.)	Laboratory "Louis Neel", C.N.R.S. Grenoble, France Magnetostriction at low temperatures of Metallic Glasses
1989 (2 m.)	Laboratory "Louis Neel", C.N.R.S. Grenoble, France Magnetostriction at low temperatures of Metallic Glasses(2 m.)
1990 (2 m.)	Laboratory "Louis Neel", C.N.R.S. Grenoble, France Magnetostriction of Nanocrystalline Alloys

*1992 (2 m.) Magnetic Group, University of Bath, UK*

*Magnetostriction of Amorphous Wire*

*2000 (1 m.) Institute of Physics. Polish Academy of Science, Warsaw, Poland*

**Personal:**

Born October 14<sup>th</sup>, 1952 in Lazkao, Guipuzkoa, Spain

Married to María Jesús Herrero García, 3 children

Spanish citizen

**Keywords**

*New amorphous, nanocrystalline and nanogranular ferromagnetic materials; New magnetic sensors; Magnetoelastic effects; Magnetotransport phenomena: magnetoresistance, magnetoimpedance at high frequency and ferromagnetic resonance; Metamaterials at GHz range; Spintronic: (Dynamics of magnetic vortex); Magnetocalorific. And shape magnetic memory materials; Micromagnetic and simulation modelling.*

**List of Publications**

## a. Book Chapters

1. Arkady Zhukov and **Julián González**  
"Amorphous and Nanocrystalline Soft Magnetic Materials: Tailoring of Magnetic, Magnetoelastic and Transport Properties"  
*Handbook of Advanced Magnetic Materials*, Eds. Yi Liu, David J. Sellmayer and Daisuke Shindo (Springer Science Publishers, New York, USA, 2006) **Vol.3**, Capítulo 5, p. 115-181. (ISBN: 1-4020-7983-4)
2. A. Zhukov, M. Vázquez, V. Larin, A. Torcunov and **J. González**  
"Nanocrystalline and Amorphous Magnetic Microwires"  
*Encyclopedia of Nanoscience and Nanotechnology* (American Scientific Publishers. Web Home: www.aspbs.com) **Vol. 6** (2004) p.365-387 (ISBN: 1-58883-001-2)
3. **Julián González**, Oksana Chubykalo and Jesús M. González  
"Soft and Hard Magnetic Nanomaterials"  
*Encyclopedia of Nanoscience and Nanotechnology* (American Scientific Publishers. Web Home: www.aspbs.com) **Vol. 10** (2004) p. 1-26 (ISBN: 1-58883-001-2)
4. **Julián González** and Arkady Zhukov  
"Amorphous Magnetic Materials for Sensor Applications"  
*Encyclopedia of Sensors* (American Scientific Publishers. Web Home: www.aspbs.com) **Vol.1** (2005) p.79-103 (ISBN: 1-58883-056-X)
5. R. Varga, A. Zhukov, V. Zhukova, J.M. Blanco, Y. Kosttyk, J. Torrejón, K. García, M. Vázquez and **J. González**  
"Single Domain Wall Dynamics in Magnetic Microwires"  
*Advanced Magnetic Materials for Technological Applications*, Eds. Arkady P. Zhukov and Julián González (Transworld Research Network, Kerala, India, 2008) Chapter 8, p. 213-239 (ISBN: 978-81-7895-367-0)
6. Arkady Zhukov, **Julián González**, Juan María Blanco and Valentina Zhukova  
"Magnetic Properties of Glass-Coated Microwires with Nanocrystalline Structure"  
*Amorphous Materials: Research, Technology and Applications*, Ed. Jacob I. Levine (NOVA Science Publishers, New York, 2009) (Accepted) Chapter 6 (ISBN: 978-1-60692-145-6)
7. Nuria Iturriza, Juan José del Val, Arkady P. Zhukov, Ignacio García, José A. Pomposo and **Julián González**  
"Novel Amorphous and Nanocrystalline Soft Magnetic Materials"  
*Amorphous Material: Research, Technology and Applications*, Ed. Jacob I. Levine (NOVA Science Publishers, New York, 2009) (Vol. 3, Chapter 5, p. 84-139) (ISBN: 978-1-60692-235-4)
8. **Julián González** and Arkady Zhukov  
"Surface and Bulk Magnetism of Materials with Amorphous and Nanostructure Character"  
*Nanoclusters and Nanostructured Surfaces*, Ed. Ray Asok (American Scientific Publishers) Chapter 9 (ISBN: 1-58883-182-5)
9. Juan José del Val and **Julián González**  
"Microstructure and Coercivity Correlationship in soft Magnetic Nanocrystalline"  
*Microscopy Book Series - Volume # 4: "Microscopy: Science, Technology, Applications and Education*, Eds. A. Méndez-Vilas, J. Díaz (Formatex Research Center, Badajoz, Spain) (submitted)

## b. Scientific Journals

### b.1. Invited articles (IA) and Reviews ®

1. J.M. González, F. Cebollada, R. Smirnov-Rueda and **J. González**  
"Relaxation Processes and Coercivity in Hard Magnets"  
*IEEE Transactions on Magnetism*, **Mag-32**, (1996) p.4350-4355, A
2. M. Vázquez, P. Marín, A. Hernando, A.P. Zhukov and **J. González**  
"Influence of Nanocrystalline Structure on the Magnetic Properties of Wires and Microwires"  
*Textures and Microstructures*, **32**, (1999), p.245-267, R
3. **J. González**, V. Zhukova, A.P. Zhukov, J.J. del Val, J.M. Blanco, E. Pina and M. Vázquez  
"Magnetic and Structural Features of Glass-Coated Cu-based (Co,Fe,Ni - Cu) Microwires"  
*Journal of Magnetism and Magnetic Materials*, **221** (2000) p.196-206. A
4. **J. González**, M. Vázquez and A.P. Zhukov  
"Tailoring of Magnetic Properties of Glass Coated Microwires"  
*Izvestia Akademii Nauk - Fizika*, **65** (2001) p.1492-1498, A
5. **J. González**, A.P. Chen, J.M. Blanco and A.P. Zhukov  
"Effect of the Applied Mechanical Stresses on the Impedance Response in Amorphous microwires with Vanishing Magnetostriction"  
*Physica Status Solidi (a)*, **189** (2002) p.599-608, A
6. G.R. Aranda, **J. González**, O.A. Chubykalo and J. M. González  
"The transverse biased initial susceptibility measurements simulated in a two-zoned 2D system"  
*Computational Materials Science*, **25** (2002) p.519-524, A
7. **J. González**, A. Chizhik, A. Zhukov and J.M. Blanco  
"Surface Magnetic Behaviour of Nearly-Zero Magnetostrictive Co-Rich Amorphous Microwires"  
*Journal of Magnetism and Magnetic Materials*, **258/259** (2003) p.177-182, A
8. Arcady Zhukov, Karin García, Marek Kuzminski, Valentina Zhukova, Henryk Lachowicz, **Julián González** and Manuel Vázquez  
"GMI Effect in Co-rich Glass Coated Microwires for Sensor Applications"  
*Sensors and Transducers*, **41** (2004) p.174-180, A
9. A. Zhukov, V. Zhukova, J.M. Blanco and **J. González**  
"Giant Magnetoimpedance Effect in Thin Amorphous Wires for Sensors Applications"  
*The Physics of Metals and Metallography*, **99**, (2005), p.857-861 A
10. C. Miguel, A. Zhukov, J.J. del Val and **J. González**  
"Coercivity and Induced magnetic Anisotropy by Stress and/or Field Annealing in Fe- and Co-based (Finemet-type) Amorphous Alloys"  
*Journal of Magnetism and Magnetic Materials*, **294** (2005) p.245-251, A
11. A. Zhukov, **J. González** and V. Zhukova  
"Magnetoresistance in Thin Wires with Granular Structure"  
*Journal of Magnetism and Magnetic Materials*, **294** (2005) p.165-173, A
12. C. García, A. Zhukov, **J. González**, V. Zhukova and J.M. Blanco  
"High-Frequency GMI Effect in Different Families of Thin Amorphous Wires"  
*Transactions of the Magnetic Society of Japan*, **5** (2005) p.148-152, A
13. C. García, A. Chizhik, J.J. del Val, A. Zhukov, J.M. Blanco and **J. González**  
"Magnetic and Magnetotransport Properties in Thin Fe-rich Wires Processing by Cold-Drawn"  
*The Physics of Metals and Metallography*, **102, Supp. I** (2006) p.S8-S12, A
14. R. Varga, K.L. García, A. Zhukov, M. Vázquez, M. Ipatov, **J. González**, V. Zhukova and J.M. Blanco  
"Magnetization Processes in Thin Magnetic Wires"  
*Journal of Magnetism and Magnetic Materials*, **300** (2006) p. e305-e310, A
15. V. Zhukova, M. Ipatov, A. Zhukov, R. Varga, **J. González** and J.M. Blanco  
"Studies of Magnetic Properties of Thin Microwires with Low Curie Temperature"  
*Journal of Magnetism and Magnetic Materials*, **300** (2006) p. 16-23, A
16. A. Chizhik, C. García, **J. González**, A. Zhukov and J.M. Blanco  
"Study of the Surface Magnetic Properties in Co-Rich Amorphous Microwires"  
*Journal of Magnetism and Magnetic Materials*, **300** (2006) p. e93-e97, A

17. C. García, A. Zhukov, M. Ipatov, V. Zhukova, J.J. del Val, L. Domínguez, J.M. Blanco, V. Larin and **J. González**  
 "Soft Magnetic Behaviour of Nanocrystalline Fe-Based Glass-Coated Microwires"  
*Journal of Optoelectronics and Advanced Materials*, **8** (2006) p.1667-1671, A
18. L. Fernández, N. Iturriza, M. Ipatov, J.J. del Val, A. Chizhik, **J. González**, G. Vara and A.R. Pierna  
 "Magnetic Behaviour and Microstructure of Finemet-Type Ribbons in Both: Surface and Bulk"  
*Journal of Non-Crystalline Solids*, **353** (2007) p.777-781, A
19. V. Zhukova, M. Ipatov, C. García, **J. González**, J.M. Blanco and A. Zhukov  
 "Development of Ultra-Thin Glass-Coated Amorphous Microwires for High Frequency Magnetic Sensors Applications"  
*The Open Materials Science Journal*, **1** (2007) p.1-12, R (web side: [www.bentham.org/open](http://www.bentham.org/open))
20. D. Makhnovskiy, A. Zhukov, V. Zhukova and **J. González**  
 "Tunable and Self-Sensing Microwave Composite materials Incorporating Ferromagnetic Microwires"  
*Advances in Science and Technology*, **54** (2008) p.201-210, A
21. Victor M. Prida, Victor Vega, David Serantes, Daniel Baldomir, Maxim Ilym, Arcady P. Zhukov, **Julián González** and Blanca Hernando  
 "Influence of Magnetic Anisotropy and Dipolar Interactions on Magnetocaloric Effect in Nanostructured Materials"  
*Physica Status Solidi (a)*, **206** (2009) p.2234-2239, A
22. A. Zhukov, M. Ipatov, **J. González**, J.M. Blanco and V. Zhukova  
 "Recent Advances in Studies of Magnetically Soft Amorphous Microwires"  
*Journal of Magnetism and Magnetic Materials*, **321** (2009) p.822-825, A
23. V. Rodionova, M. Ipatov, M. Ilyn, V. Zhukova, N. Perov, **J. Gonzalez** and A. Zhukov  
 "Tailoring of Magnetic Properties of Magnetostatically-Coupled Glass-Covered Magnetic Microwires"  
*Journal of Superconductivity and Novel Magnetism*", (Accepted), A

## b.2. Regular Articles and Others

1. **J. González**, M. Vázquez and J.M. Barandiarán  
"On the Dependence of the Magnetization Curve on Applied Tensile Stress in Amorphous Alloys with Positive Magnetostriction"  
*Physica Status Solidi (a)*, **93** (1986) p. K165-K170, Short Note
2. M. Vázquez, **J. González** and A. Hernando  
"Induced Magnetic Anisotropy and Change of the Magnetostriction Constant by Current Annealing in Co-based Amorphous Alloys"  
*Journal of Magnetism and Magnetic Materials*, **53** (1986) p. 323-329, A
3. **J. González**, M. Vázquez, J.M. Barandiarán, V. Madurga and A. Hernando  
"Different Kinds of Anisotropies Induced by Current Annealing in Metallic Glasses"  
*Journal of Magnetism and Magnetic Materials*, **68** (1987) p. 151-156, A
4. I. Ibarrondo y **J. González**  
"Estudio de las Características Magnéticas de Cintas Cristalinas Fe-Si con Alto Contenido de Silicio (6.5%) Obtenidas por Temple Ultrarrápido y Sometidas a Recocido por Corriente Eléctrica" (Spanish).  
*REVISTA de Metalurgia*, **23** (1987) p. 329-332, A
5. **J. González**, M. Vázquez, J.M. Barandiarán and A. Hernando  
"Effects of Current Annealing on the Hysteresis Loop of Amorphous Alloys"  
*Journal of Physics D: Applied Physics*, **21** (1988) p. 162-167, A
6. J.M. Blanco, **J. González** y A.R. Pierna  
"Anisotropías magnéticas en la aleación amorfa (Co<sub>0.94</sub>Fe<sub>0.06</sub>)<sub>75</sub>Si<sub>15</sub>B<sub>10</sub>" (Spanish)  
*Anales de Física (B)*, **85** (1989) p. 1-7, A
7. **J. González**, M. Vázquez, J.M. Barandiarán and A. Hernando  
"Reinforced Magnetic Anisotropy Induced by Stress+Field Annealing and its Dependence of Preannealing Conditions in Co-rich Metallic Glasses"  
*Journal de Physique (Colloques)*, **48** (1989) p. 1335-1336, A
8. **J. González** and E. du Tremolet de Lacheisserie  
"Magnetostriction of an Amorphous Fe<sub>4.9</sub>Co<sub>71.1</sub>Si<sub>12</sub>B<sub>12</sub> Alloy"  
*Journal of Magnetism and Magnetic Materials*, **78** (1989) p. 237-240, A
9. E. du Tremolet de Lacheisserie and **J. González**  
"Magnetization and Magnetostriction of (Co<sub>1-x</sub>Ni<sub>x</sub>)<sub>75</sub>Si<sub>15</sub>B<sub>10</sub> Amorphous Alloys (x = 0, 0.4)"  
*Journal de Physique*, **50** (1989) p. 949-955, A
10. **J. González**, M. Vázquez, J.M. Barandiarán, M.A. Illarramendi, A. Salazar and A. Hernando  
"Magnetic Anisotropies Induced by Current Annealing and Their Dependence on Annealing Temperature"  
*Physica Status Solidi (a)*, **113** (1989) p. 187-192, A
11. J.M. Barandiarán, M. Vázquez, A. Hernando, **J. González** and G. Rivero  
"Distribution of the Magnetic Anisotropy in Amorphous Alloys Ribbons"  
*IEEE Transactions on Magnetics*, **Mag-25** (1989) p.3330-3332, A
12. **J. González** and J.M. Blanco  
"Temperature Dependence on the Magnetostriction and Stress Induced Magnetic Anisotropy in Co<sub>45</sub>Ni<sub>30</sub>Si<sub>15</sub>B<sub>10</sub> Amorphous Alloys"  
*Physica B*, **161** (1989) p.247-250, A
13. **J. González** and K. Kulakowski  
"Stress+Field Induced Magnetic Anisotropies in Co-rich Amorphous Alloys"  
*Journal of Magnetism and Magnetic Materials*, **82** (1989) p.94-99, A
14. **J. González**, J.M. Blanco, I.Telleria, J.M. Barandiarán, M.Vázquez, A.Hernando and A.R. Pierna  
"Induced Magnetic Anisotropies in Co-Si-B Metallic Glasses"  
*Journal of Magnetism and Magnetic Materials*, **83** (1990) p.168-170, A
15. **J. González** and E. du Tremolet de Lacheisserie  
"Influence of Annealing on Magnetostriction of an Amorphous Co<sub>45</sub>Ni<sub>30</sub>Si<sub>15</sub>B<sub>10</sub> Alloy"  
*Physica Status Solidi (a)*, **115** (1989) p.K233-K235, Short Note

16. **J. González** and K. Kulakowski  
 "Effect of the Stress Annealing on the Magnetostriction Constant and Induced Magnetic Anisotropy in  $(\text{Co}_{1-x}\text{Ni}_x)_{75}\text{Si}_{15}\text{B}_{10}$  Metallic Glasses"  
*Journal of Magnetism and Magnetic Materials*, **86** (1990) p. 207-212, A
17. **J. González Estévez**  
 "Stress+Longitudinal Field Induced Magnetic Anisotropy in Co-rich Amorphous Alloys"  
*Journal of Magnetism and Magnetic Materials*, **87** (1990) p.111-113, A
18. **J. González**, J.M. Barandiarán, M. Vázquez and A. Hernando  
 "Stress and/or Field Induced Magnetic Anisotropy by Current Annealing in  $(\text{Co}_{1-x}\text{Fe}_x)_{75}\text{Si}_{15}\text{B}_{10}$  Metallic Glass Ribbons"  
*Anales de Física B*, **86** (1990) p.184-186, A
19. K. Kulakowski and **J. González**  
 "Self-Stabilizing of Stress and Field Induced Magnetic Anisotropy in Co-rich Amorphous Alloys"  
*Journal of Magnetism and Magnetic Materials*, **89** (1990) p. 135-138, A
20. **J. González**, J.M. Blanco, J.M. Barandiarán, M. Vázquez, A. Hernando, G. Rivero and D. Niarchos  
 "Helical Magnetic Anisotropy Induced by Current Annealing under Torsion in Amorphous Wires"  
*IEEE Transactions on Magnetics*, **Mag-26** (1990) p.1798-1800, A
21. **J. González Estévez** and E. du Tremolet de Lacheisserie  
 "Effect of Annealing on the Magnetostriction of the  $\text{Co}_{70}\text{Mn}_{10}\text{B}_{20}$  Amorphous Alloy"  
*Journal of Physics: Condensed Matter*, **2** (1990) p.6235-6237, Letter to the Editor
22. **J. González** and J.M. Blanco  
 "Short Range Order of Fe-Co and Fe-Ni Amorphous Alloys from Stress and/or Field Induced Magnetic Anisotropy"  
*Journal of Non-Crystalline Solids*, **126** (1990) p.151-154, A
23. M. Vázquez, **J. González**, J.M. Blanco, J.M. Barandiarán, G. Rivero and A. Hernando  
 "Torsion Dependence of Magnetization Process in Magnetostrictive Amorphous Wires"  
*Journal of Magnetism and Magnetic Materials*, **95** (1991) p. 321-328, A
24. J.M. Blanco, P.G. Barbón, A.R. Pierna and **J. González**  
 "Compositional Dependence of the Stress+Field Induced Anisotropy in Co-Ni-Si-B and Co-Fe-Ni-Si-B Amorphous Alloy Ribbons"  
*Journal of Non-Crystalline Solids*, **136** (1991) p.91-96, A
25. J.M. Blanco, **J. González**, M. Vázquez, J.M. Barandiarán and A. Hernando  
 "Measurement of Magnetostriction and Induced Magnetic Anisotropy by S.A.M.R. Method in Co-rich Stress+Field Annealed Amorphous Ribbons"  
*Journal of Magnetism and Magnetic Materials*, **101** (1991) p.35-36, A
26. M.A. Escobar, A.R. Yavari, E.T. de Lacheisserie and **J. González**  
 "Saturation Magnetostriction of Amorphous Tapes with  $\lambda_s \gg 0$  and  $\lambda_s \approx 0$  after Relaxation by Conventional and Rapid Dynamic Current Annealing"  
*Materials Science and Engineering*, **A133** (1991) p.184-187, A
27. **J. González**, J.M. Blanco, M. Vázquez, J.M. Barandiarán and A. Hernando  
 "Influence of the Applied Tensile Stress on the Magnetic Properties of Current Annealed Amorphous Wires"  
*Journal of Applied Physics*, **70** (1991) p. 6522-6524, A
28. I. Ibarondo, J.M. San Juan and **J. González**  
 "Study of the Incidence of the Last Annealing on the Magnetic Characteristics of °High Silicon (6.0 - 6.5 %) Crystalline Ribbons Directly Obtained from the Melted State"  
*Journal of Magnetism and Magnetic Materials*, **101** (1991) p.88-90, A
29. **J. González Estévez**  
 "Short Range Order of Co-Si-B Amorphous Alloys from the Variation of Index n of Proportionality between Field Induced Anisotropy and Saturation Magnetization"  
*Materials Letters*, **12** (1991) p.168-170, A
30. **J. González**, J.M. Blanco, P.G. Barbón and K. Kulakowski  
 "Thermal Dependence of the Anisotropic Contribution to the Stress Derivate of the Magnetostriction in  $(\text{Co}_{0.95}\text{Fe}_{0.05})_{80}\text{Si}_{10}\text{B}_{10}$  Amorphous Alloy"

*Journal of Magnetism and Magnetic Materials*, **102** (1991) p.63-66, A

31. **J. González**, J.M. Blanco, M. Vázquez, J.M. Barandiarán and A. Hernando  
"Kinetic Magnetic Relaxation in Amorphous Magnetostrictive Wires"  
*Journal of Magnetism and Magnetic Materials*, **104-107** (1992) p.139-140, A
32. J.M. Blanco, P.G. Barbón, **J. González**, C. Gómez-Polo and M. Vázquez  
"Stress Induced Magnetic Anisotropy in Non-Magnetostrictive Amorphous Wires"  
*Journal of Magnetism and Magnetic Materials*, **104-107** (1992) p.137-138, A
33. I. Ibarrondo, S. Suriñach and **J. González**  
"Influence of Manufacturing Process Parameters on Magnetic Characteristics of High - FeSi Crystalline Rapid Quenched Ribbons"  
*Journal of Magnetism and Magnetic Materials*, **112** (1992) p. 232-234, A
34. **J. González**, J.M. Blanco, A. Hernando, M. Vázquez, J.M. Barandiarán and G. Rivero  
"Stress Dependence of Magnetostriction in Amorphous Ferromagnets its Variation with Temperature and Induced Anisotropy"  
*Journal of Magnetism and Magnetic Materials*, **114** (1992) p.75-81, A
35. **J. González** and J.M. Blanco  
"Effect of the Direction of Field Annealing on the Stress+Field Induced Magnetic Anisotropy in Co-Fe-Ni Amorphous Alloys"  
*Journal of Materials Research*, **7** (1992) p.1602-1605, Rapid Communication
36. A. Hernando, **J. González**, J.M. Blanco, M. Vázquez, J.M. Barandiarán and E. Ascasibar  
"Influence of the Structural Rearrangements on the Stress Sensitivity of Magnetostriction in a Co-rich Amorphous Alloy"  
*Physical Review B: Condensed Matter*, **46** (1992) p. 3401-3404, A
37. **J. González**, P.G. Barbón, J.M. Blanco, M. Vázquez, J.M. Barandiarán and A. Hernando  
"Influence of the Tensile and Torsional Stress on the Magnetic Parameters of a Co-rich Stress Annealed Amorphous Wire"  
*IEEE Transactions on Magnetics*, **Mag-28** (1992) p. 2769-2772, A
38. K. Kulakowski and **J. González**  
"Magnetic Anisotropy and Magnetostriction of Atoms Pairs in Metallic Alloys"  
*Journal of Magnetism and Magnetic Materials*, **123** (1993) p.169-174, A
39. F. Cebollada, J.M. González and **J. González**  
"Polarizing Effects of Magnetization on Crystallization of Co<sub>100-x</sub>P<sub>x</sub> Amorphous Alloys"  
*Journal of Applied Physics*, **73** (1993) p.5372-5375, A
40. N. Murillo, **J. González**, F.Cebollada, V.E.Martín, J.M.González and L. Schultz  
"Microstructural and Magnetic Properties of Mechanically Alloyed Sm-Fe"  
*IEEE Transactions on Magnetics*, **Mag-29** (1993) p. 3475-3477,A
41. N. Murillo, **J. González**, J.M. Blanco and M. Vázquez  
"Stress Induced Magnetic Anisotropy and Temperature Dependence of the Magnetostriction Fe<sub>73.5</sub>Cu<sub>1</sub>Nb<sub>3</sub>Si<sub>13.5</sub>B<sub>9</sub> Amorphous Alloy"  
*Journal of Applied Physics*, **74** (1993) p.3323-3328, A
42. P. Aragonese, **J. González**, J.M. Blanco, and M. Vázquez  
"Influence of the Thermal Treatments and Mechanical Tensile Stress on the Bistable Behavior in a Co-Si-B Amorphous Wire"  
*IEEE Transactions on Magnetics*, **Mag-29** (1993) p.2857-2859, A
43. **J. González**, P. Aragonese, J.M. Blanco, M. Vázquez, F. Cebollada, I. Ibarrondo and J.M. González  
"Helical Magnetic Anisotropy Induced by Current Annealing Under Torsion in Co-rich Amorphous Wires"  
*IEEE Transactions on Magnetics*, **Mag-30** (1994) p.1015-1017, A
44. L. Domínguez, K. Kulakowski and **J. González**  
"Model Calculations of the Stress Dependence of Shape Magnetostriction in Homogeneous Amorphous Alloys"  
*Journal of Magnetism and Magnetic Materials*, **128** (1993) p.L11-L16, Letter to the Editor
45. N. Murillo, **J. González**, J.M. González, C. de Julián and F. Cebollada  
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*Physica Status Solidi (a)*, **206** (2009) p.630-634, A
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"High-Frequency GMI Effect in Glass-Coated Amorphous Wires"  
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"Kerr Microscopy Study of Magnetic Domain Structure Changes in Amorphous Microwires"  
*IEEE Transactions on Magnetics*, **Mag-45** (2009) p.4279-4281, A
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"Influence of the Circular Magnetic Field and the External Stress on the Remagnetization Process in Fe-Rich Amorphous Wires"  
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"Magnetostatic Interaction of Glass-Coated Magnetic Microwires"  
*Journal of Applied Physics*, **108** (2010) 016103 (4pages), Communication
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"Low Field Magneto Impedance Hysteresis in Amorphous Microwires"  
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"Direct observation of giant Barkhausen jumps in magnetic microwires"  
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"Magnetization Configurations and Reversal of Thin Magnetic Nanotubes with Uniaxial Anisotropy"  
*Journal of Applied Physics*, **108** (2010) 083920 (8 pages), A
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"Magnetocaloric Properties of As-Quenched Ni<sub>50.4</sub>Mn<sub>34.9</sub>In<sub>14.7</sub> Ferromagnetic Shape Memory Alloy Ribbons"  
*Applied Physics A: Materials Science & Processing*, (2010) DOI 10.1007/s00339-010-6053-x
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“Tunable effective permittivity of composites based on ferromagnetic microwires with High magneto-impedance effect”  
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“Evolution of the magnetic properties of  $\text{Co}_{10}\text{Cu}_{90}$  nanoparticles with thermal annealing”  
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“Asymmetric Hysteresis Loops of Systems of Bistable Nanoscopic Wires”  
*Journal of Nanoscience and Nanotechnology*, (Submitted), A
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### c. Collective character publications

1. J.M. Barandiarán and **J. González**  
"Influencia de las Tensiones Aplicadas en la Conmutación de la Imanación para una Serie de Aleaciones Amorfas" (Spanish)  
Proc. de la *V Reunión del Grupo de Electromagnetismo de la R.S.E.F.*, (1984) p. 104-109, Comunicación
2. A. Hernando, M. Vázquez, V. Madurga and **J. González**  
"Influence of the Internal Stress Distribution on the "SAMR" Method for Measuring Magnetostriction in Amorphous Ribbon"  
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"Stress-Field Induced Magnetic anisotropy in Co-Fe-Ni Metallic Glasses"  
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4. **J. González**, J.M. Blanco, J.M. Barandiarán, M. Vázquez and A. Hernando  
"Induced Magnetic Anisotropy in  $\text{Fe}_{80-x}\text{Ni}_x\text{B}_{20}$  Amorphous Alloys"  
*"Basic Features of the Glassy State"*, Eds. J. Colmenero and A. Alegria (1990), p.550-554, Contribución
5. **J. González**, J.M. Blanco, M. Vázquez, J.M. Barandiarán and A. Hernando  
"Magnetic Anisotropies Induced by Current Annealing in Co-rich Amorphous Alloys and its Dependence on Applied Stress During Treatments"  
*"Physics of Magnetic Materials"* Eds W.Gorzowski, H.Gutowski, H.K.Lachowicz and H.Szymczak, (1991), p.354-364, contribución
6. K. Kulakowski and **J. González**  
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7. **J. González**, M. Vázquez y A. Hernando  
"Anisotropía Magnética Inducida por Tensión en Aleaciones Amorfas Basadas en Co por Corrientes Eléctricas de Recocido" (Spanish)  
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8. **J. González**, M. Vázquez, E.T. De Lacheisserie and G. Herzer  
"Temperature Dependence of the Law of Approach to Magnetic Saturation in Nanocrystalline Ferromagnet"  
*"Ordering and Disordering in Alloys"* Ed. A.R.Yavari (1992) p.435-444, (Invited Talk)
9. **J. González Estévez**  
"Analysis of the Magnetic Aspects on the Sensibility of a Metallic Glass Sensor"

10. *"Physics for Industry and Industry for Physics"* (1991) p. 46-47, contribución  
M. Vázquez, C. Gómez-Polo, **J. González**, E. Pulido and A. Hernando  
"Magnetization Process of Large Magnetostriction Amorphous Wires"  
*"Magnetism, Magnetic Materials and Applications"*, Eds. J.L.Sánchez-Llamazares and F. Leccabue (1992) p. 157-165, (Invited Talk)
11. J.D. M.Carey, M.D Hickmott, H.T. Savage, C. Gómez-Polo, M. Vázquez, J.M. Blanco and **J. González**  
"Large Barkhausen Effect and Coupling Factors in Iron Rich Amorphous Wires"  
*"Trends in Non-Crystalline Solids"*, Eds. A. Conde, C.F. Conde and M. Millán (1992) p. 425-428, contribución
12. M. Vázquez, P. Marín, **J. González**, A. Hernando and E. Pulido  
"Magnetic and Structural Characterisation of Nanocrystalline Fe-Cu-Nb-Si-B Alloys"  
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13. A.R. Pierna, A. Lorenzo and **J. González**  
"Corrosion Behavior of Fe<sub>60</sub>Ni<sub>20</sub>B<sub>20</sub> Amorphous Alloy and Partially Crystallized"  
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19. O.A. Chubykalo, **J. González** and J.M. González  
"Avalanches Size Distribution in Model Hard Magnetic Materials Having Different Textures"  
*"Magnetic Hysteresis in Novel Magnetic Materials"*, Ed. G.C. Hadjipanayis (1997) p.121-124, Contribución
20. J.M. González, C. de Julián, **J. González**, F. Cebollada, M.I. Montero, M. Emura and J. Restrepo  
"Magnetization Dependence on Temperature and Grain Size in Nanostructured Samples"  
*"Magnetic Hysteresis in Novel Magnetic Materials"*, Ed. G.C.Hadjipanayis (1997) p.315-319, Contribución
21. P. García-Tello, J.M. Blanco, N. Murillo, G.R. Aranda, **J. González** and J.M. González  
"Tensile Stress Dependence of Coercive Field and Magnetization of Fe-Based Amorphous Alloys"  
Proc.: *"V International Workshop on Non-Crystalline Solids"*, Eds. J.Rivas and A. López-Quintela (1998), p. 202-207, contribución
22. **J. González**, A. Zhukov and M. Vázquez  
"Magnetic Hardening in Glass Coated Microwires"  
Proc.: 16<sup>th</sup> International Workshop on Rare-Earth Magnets and Their Applications", Eds.: H. Kaneko, M. Homma and M. Okada (The Japan Institute of Metals, Sendai, Japan, 2000) p.1149-1154
23. R. Smirnov-Rueda, J.M. González, O.A. Chubykalo and **J. González**  
"A Micromagnetic Analysis of the Experimental Methods Used to Evaluate the Activation Volume"

Proc.: *11<sup>th</sup> International Symposium on Magnetic Anisotropy and Coercity in Rare-Earth Transition Metals Alloys*, Eds.: H. Kaneko, M. Homma and M. Okada (The Japan Institute of Metals, Sendai, Japan, 2000) p.S137-S146

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"Tailoring of Magnetic Properties of Glass-Coated Microwires"  
Proc.: *Mat.Res.Soc.Symp.*, **Vol.674** (Materials Research Society, 2001) p.U7.5.1-U7.5

25. A. Zhukov, M. Ipatov, C. García, **J. González**, L. Panina, J.M. Blanco and V. Zhukova  
"Thin Soft Magnetic Amorphous Microwires for High Frequency Magnetic Sensors Applications"  
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26. A. Zhukov, M. Ipatov, C. García, **J. González**, J.M. Blanco and V. Zhukova  
"Magnetic Properties and High-Frequency GMI Effect in Thin Glass-Coated Microqires"  
Proc. "*ICMM Conference*", (American Institute of Physics), Invited Talk, (en prensa)
27. A. Zhukov, V. Zhukova, J.M. Blanco and **J. González**  
"Giant magneto-impedance effect in thin amorphous wires for sensor applications."  
Conference Proc. "*Euro-Asian Symposium "Magnetism on a Nanoscale"*", Invited Talk (en prensa)
28. A. Chizhik, A. Zhukov, V. Zhukova, C. García, J.M. Blanco, J.J. del Val, L. Fernández, N. Iturriza and **J. González**  
"Nanocrystallization and Surface Magnetic Structure of Ferromagnetic Ribbons and Microwires"  
Proc. "*International Conference on Nanoscale Magnetism ICNM-2007*", Eds. B. Aktas and F. Mikailov (Springer Proceedings in Physics 122, Istanbul, Turkey) p.205-217, contribution
29. L.V. Panina, M. Ipatov, V. Zhukova, **J. González** and A. Zhukov  
"Tuneable Dielectric Properties of Composites with Arrays of Magnetic Wires"  
Proc. *3<sup>rd</sup> International Congress on Advanced Electromagnetic Materials in Microwaves and Optics. Metamorphose- VI* (ISBN978-0-9551179-6-1) 2009, p.788-790, contribution
30. A. Chizhik, D.N. Merenkov, A. Zhukov, J.M. Blanco, S.L. Guatchenko amd **J. González**  
"Magnetization reversal in thin glass covered amorphous microwires with helical anisotropy"  
Proc. *International Conference on Magnetism 2009, Journal of Physics: Conference Series (IOP)*, **200** (2010) 082001 (4 pages)
31. M. Ipatov, V. Zhukova, A. Zhukov, **J. González** and A. Zvezdin  
"High Frequency Magneto Impedance in AmorphousMicrowires"  
Proc. *International Conference on Magnetism 2009, Journal of Physics: Conference Series (IOP)*, **200** (2010) 082009 (5 pages)
32. Mihail Ipatov, Larissa Panina, Gloria R. Aranda, Valentina Zhukova, Arcady Zhukov and **Julian Gonzalez**  
"Tunable Microwave Composites Containing Ferromagnetic Microwires"  
Proc. *Mat.Res.Soc.Symp.*, (Materrals Research Society, 2009) (at press)
33. K.Y. Gusliencko, G.R. Aranda and **J. González**  
"Spin Torque and Critical Currents for Magnetic Vortex Nano-Oscillator in Nanopillars"  
Proc. *Trends in Nanomagnetism and Spintronics, TSN2010, Journal of Physics: Conference Series (IOP)*,(at press) (6 pages)

#### **CONTRIBUTIONS TO CONFERENCES AND WORKSHOPS:**

I have given myself 32 invited conferences and 47 oral talks in congresses.

#### **PARTICIPATION IN RESEARCH PROJECTS:**

I have been involved in 24 projects, in 15 of them as principal investigator.

#### **ORGANIZATION OF WORKSHOPS:**

I have organized the III Joint European Magnetic Symposia (JEMS) Conference and 4 workshops and participated in the Scientific Committee of 8 conferences.

#### **SUPERVISING OF PhD THESIS:**

I have supervised 10 PhD thesis and I am currently supervising 2 more.

#### **MANAGEMENT ACTIVITIES:**

I am Associate Editor of Journal of Nanoscience and Nanotechnology (web side: [www.aspbs.com](http://www.aspbs.com)) since July 2005.

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## OTHER MERITS OF SCIENTIFIC RELEVANCE

### 1) **Associate Editor** "*Magnetic Nanomaterials*" of Journal of Nanoscience and Nanotechnology

**Guest Editor** of Journal of Magnetism and Magnetic Materials, **Vol.203**, (1999), collecting the proceedings of the "*Magnetism of Nanostructured Phases*" MNP Conference.

**Guest Editor** of PHYSICA B: Condensed Matter, **Vol.299**, (2001), collecting the proceedings of "*Recent Research on Novel Magnetic Structures and Their Applications*" Symposium.

**Guest Editor** of Journal of Magnetism and Magnetic Materials, **Vol.249**, (2002), collecting the proceedings of the "*International Workshop on Magnetic Wires*" IWMW Conference

**Guest Editor** of Journal of Magnetism and Magnetic Materials, **Vol.316**, (2007), collecting the proceedings of the "*III Joint European Magnetic Symposia*" JEMS Conference

**Guest Editor** of Physica Status Solidi (a): Applied Physics, **Vol. 206** (2009), collecting the proceedings of the "*International Workshop on Magnetic Wires*" IWMW Conference

**Guest Editor** of special issue of "*Nanomagnetism*" of Journal of Nanoscience and Nanotechnology, **Vol. 8**, (2008)

**Guest Editor** of Journal of Nanoscience and Nanotechnology (in progress) collecting the proceedings of the NANOSMAT Conference

### 2) Supervisor of 11 PhD thesis

### 3) Referee of:

- **Louisiana State University System Boyd Professorship (USA)**
- Book "*Magnetic Nanoparticles*" by S. Gubin (Elsevier, 2006)
- *Journal of Applied Physics* (more than 15)
- *Applied Physics Letters* (6)
- *Journal of Physics: Condensed Matter*, IOP (3)
- *Journal of Physics D: Applied Physics*, IOP (más de 10)
- *IEEE Transactions on Magnetics* (7, 2 Adjudicator)
- *Journal of Magnetism and Magnetic Materials* (8)
- *Physica B* (4, 1 Adjudicator)
- *Canadian Journal of Applied Physics* (1)
- *Materials Science Forum* (4)
- *Sensors and Actuators* (4)
- *Journal of Alloys and Compounds*
- *Referee Network del ICM 2003*
- *Eurosensors Conference* (4)
- *5<sup>th</sup> International Workshop on Non-Crystalline Solids* (3)
- *Physica Status Solidi (a)* (3)
- *Journal of Nanoscience and Nanotechnology* (3)
- *Nanotechnology*, IOP (6)
- *Applied Surface Science* (1)
- *Computational Materials*
- *Solid State Communication*
- *Journal of Colloid and Interface Science* (2)
- *Journal of Nanomaterials* (1)
- *International Foundation for the Science* (2)
- *Natural Sciences and Engineering Research Council of Canada* (3)



- *Département de Physique, Université Polytechnique de Montréal, (Ph.D.: Mohammed Britel)*
  - *Post-doctoral positions for the Universities: St. Andrews, Plymouth, Warwick and Swansea (UK)*
- 4) Member of different scientific committees