Maria Luisa Sanchez

List of Publications by Year
in descending order

81	1,927	304743 22	265206 42
papers	citations	h-index	g-index

82	82	82	991
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Giant-magnetoimpedance-based sensitive element as a model for biosensors. Applied Physics Letters, 2003, 82, 3053-3055.	3.3	250
2	Giant magnetoâ€impedance effect in nanostructured magnetic wires. Journal of Applied Physics, 1996, 79, 1646-1654.	2.5	191
3	Giant magnetoimpedance effect in soft magnetic wires for sensor applications. Sensors and Actuators A: Physical, 1997, 59, 20-29.	4.1	179
4	Martensitic phase transformation in rapidly solidified Mn50Ni40In10 alloy ribbons. Applied Physics Letters, 2008, 92, .	3.3	122
5	Microstructure and magnetic properties of Ni50Mn37Sn13 Heusler alloy ribbons. Journal of Applied Physics, 2008, 103, .	2.5	85
6	Grain oriented NiMnSn and NiMnIn Heusler alloys ribbons produced by melt spinning: Martensitic transformation and magnetic properties. Journal of Magnetism and Magnetic Materials, 2009, 321, 763-768.	2.3	81
7	Stress dependence of the giant magneto-impedance effect in amorphous wires. Journal of Physics Condensed Matter, 1995, 7, L115-L120.	1.8	69
8	Magnetoimpedance effect in amorphous and nanocrystalline ribbons. Journal of Applied Physics, 2001, 90, 4783-4790.	2.5	65
9	Magnetoimpedance effect in zero magnetostriction nanocrystalline Fe73.5Cu1Nb3Si16.5B6 ribbons. Journal of Magnetism and Magnetic Materials, 1998, 185, 61-65.	2.3	53
10	Open-loop tomography with artificial neural networks on CANARY: on-sky results. Monthly Notices of the Royal Astronomical Society, 2014, 441, 2508-2514.	4.4	50
11	Correlation between structure, magnetic properties and MI effect during the nanocrystallisation process of FINEMET type alloys. Physica B: Condensed Matter, 2001, 299, 215-224.	2.7	39
12	Magneto-impedance effect in nanostructured soft ferromagnetic alloys. Nanotechnology, 2003, 14, 231-238.	2.6	38
13	The torsional dependence of the magneto-impedance effect in current-annealed Co-rich amorphous wires. Journal Physics D: Applied Physics, 1998, 31, 3331-3336.	2.8	34
14	Magnetocaloric effect in nanogranular glass coated microwires. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1378-1381.	1.8	32
15	Influence of induced anisotropy on magneto-impedance in Co-rich metallic glasses. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 141-142.	2.3	29
16	Magnetization process of a nanometer-scale cobalt dots array formed on a reconstructed Au(111) surface. Journal of Magnetism and Magnetic Materials, 1997, 169, 38-41.	2.3	29
17	Experience with wavefront sensor and deformable mirror interfaces for wide-field adaptive optics systems. Monthly Notices of the Royal Astronomical Society, 2016, 459, 1350-1359.	4.4	29
18	Magneto-impedance effect in amorphous ribbons for stress sensor application. Sensors and Actuators A: Physical, 2000, 81, 98-101.	4.1	27

#	Article	IF	Citations
19	Circumferential permeability in nonmagnetostrictive amorphous wires. Journal of Materials Research, 1996, 11, 2486-2489.	2.6	26
20	Influence of nanocrystallization on the magneto-impedance effect in FeCuNbSiB amorphous wires. IEEE Transactions on Magnetics, 1995, 31, 4009-4011.	2.1	25
21	Domain wall dynamics during the devitrification ofFe73.5CuNb3Si11.5B11magnetic microwires. Physical Review B, 2010, 82, .	3.2	24
22	Field and frequency dependence of the magneto-impedance in Co-rich amorphous ribbon. Journal of Magnetism and Magnetic Materials, 1996, 152, 191-195.	2.3	23
23	The magnetostriction and stress dependence of the magneto-impedance effect in ribbons of amorphous. Journal Physics D: Applied Physics, 1998, 31, 2431-2437.	2.8	19
24	Magnetic domain structure of amorphous Fe73.5Si13.5B9Nb3Cu1 wires under torsional stress. Journal of Applied Physics, 2008, 103, 07E716.	2.5	18
25	Successful sulfur recovery in low sulfurate compounds obtained from the zinc industry: Evaporationâ€“condensation method. Journal of Hazardous Materials, 2017, 336, 168-173.	12.4	16
26	Magnetization processes in metallic glasses for fluxgate sensors. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 349-350.	2.3	15
27	Frequency dependence of hysteretic magnetoimpedance in CoFeMoSiB amorphous ribbons. Journal of Magnetism and Magnetic Materials, 2000, 215-216, 425-427.	2.3	15
28	Magnetic characterization of Cu56Ga28Mn16microwires. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 644-647.	1.8	15
29	Exchange bias behavior in Ni50.0Mn35.5 In14.5 ribbons annealed at different temperatures. Journal of Magnetism and Magnetic Materials, 2012, 324, 3535-3537.	2.3	15
30	Influence of stress relief on hysteretic magnetoimpedance in Co-rich amorphous ribbons at the relaxation frequency. Applied Physics A: Materials Science and Processing, 2003, 77, 135-140.	2.3	14
31	Temperature Dependence of the Magnetization Reversal Process and Domain Structure in Fe$_{77.5 - {m x}}$Ni$_{m x}$Si$_{7.5}$B$_{15}$ Magnetic Microwires. IEEE Transactions on Magnetics, 2008, 44, 3946-3949.	2.1	14
32	Annealing Effect on Martensitic Transformation and Magneto-Structural Properties of Ni-Mn-In Melt Spun Ribbons. Materials Science Forum, 0, 635, 81-87.	0.3	14
33	Stress and magnetic field dependence of magneto-impedance in amorphous Co66.3Fe3.7Si12B18 ribbons. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 330-332.	2.3	12
34	Magnetic domains and magnetoimpedance effect during the nanocrystallization of Fe73.5Cu1Nb3Si16.5B6 ribbons. Journal of Non-Crystalline Solids, 2001, 287, 396-400.	3.1	12
35	Very high GMI effect in commercial VitrovacÂ® amorphous ribbons. Sensors and Actuators A: Physical, 2003, 106, 195-198.	4.1	12
36	Fast domain wall dynamics in amorphous glass-coated microwires. Journal of Magnetism and Magnetic Materials, 2008, 320, 2534-2537.	2.3	12

#	Article	IF	Citations
37	Method of Submerged Stokeslets for Slip Flow About Ensembles of Particles. Journal of Nanoscience and Nanotechnology, 2008, 8, 3790-3801.	0.9	12
38	The effect of ball milling in the microstructure and magnetic properties of Pr2Fe17 compound. Journal of Alloys and Compounds, 2009, 483, 682-685.	5.5	12
39	Non-isothermal approach to crystallization process of a Co-rich alloy. Journal of Non-Crystalline Solids, 2008, 354, 5126-5128.	3.1	11
40	Soft magnetic properties, magnetoimpedance and torsion-impedance effects in amorphous and nanocrystalline FINEMET alloys: Comparison between ribbons and wires. Physics of Metals and Metallography, 2006, 102, S13-S20.	1.0	10
41	Domain wall dynamics in Feâ€rich glass covered amorphous microwires. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 618-621.	1.8	10
42	Magnetoimpedance in soft magnetic amorphous and nanostructured wires. Applied Physics A: Materials Science and Processing, 2011, 104, 433-445.	2.3	10
43	First on-sky results of a neural network based tomographic reconstructor: Carmen on Canary. Proceedings of SPIE, 2014, , .	0.8	10
44	Reversible permeability for perpendicularly superposed induction in metallic glasses for fluxgate sensors. Journal of Magnetism and Magnetic Materials, 1994, 133, 338-341.	2.3	9
45	Magnetic structure of Fe-based amorphous and thermal annealed microwires. Journal of Magnetism and Magnetic Materials, 2005, 294, e163-e166.	2.3	8
46	The frequency dependence of permeability in Co66.5Fe3.5Si12B18 metallic glasses. Journal of Magnetism and Magnetic Materials, 1996, 160, 311-312.	2.3	7
47	Effects of creep-induced anisotropy on circumferential magnetization in non-magnetostrictive wires. Journal of Magnetism and Magnetic Materials, 1996, 163, 132-136.	2.3	7
48	Torsional impedance effect in Fe-rich amorphous wires. Journal of Magnetism and Magnetic Materials, 2003, 258-259, 158-160.	2.3	7
49	Temperature Dependence of Magnetoimpedance and Anisotropy in Nanocrystalline Finemet Wire. IEEE Transactions on Magnetics, 2008, 44, 3965-3968.	2.1	7
50	Magnetoimpedance effect in Co-rich metallic glasses. Journal of Magnetism and Magnetic Materials, 2003, 258-259, 183-188.	2.3	6
51	High-frequency magnetoimpedance in amorphous and nanostructured Fe73.5Si13.5B9Cu1Nb3 wires. Journal of Magnetism and Magnetic Materials, 2006, 300, 24-28.	2.3	6
52	Magnetoimpedance Response in Co-Based Amorphous Ribbons Obtained Under the Action of a Magnetic Field. IEEE Transactions on Magnetics, 2012, 48, 4375-4377.	2.1	6
53	Convolutional Neural Networks Approach for Solar Reconstruction in SCAO Configurations. Sensors, 2019, 19, 2233.	3.8	6
54	Effective extraction of high purity sulfur from industrial residue with low sulfur content. Journal of Materials Research and Technology, 2020, 9, 8117-8124.	5.8	6

#	Article	IF	Citations
55	Influence of tensile stresses on the magneto impedance effect in Vitrovac 6025 ribbons. European Physical Journal Special Topics, 1998, 08, Pr2-179-Pr2-182.	0.2	5
56	Torsion impedance of CoFeSiB amorphous wires. Journal of Magnetism and Magnetic Materials, 2002, 249, 269-273.	2.3	5
57	GMI sensitive element based on commercial VitrovacÂ® amorphous ribbon. Sensors and Actuators A: Physical, 2004, 110, 228-231.	4.1	5
58	Torsion annealing influence on the impedance behaviour in amorphous FeSiB and CoSiB wires. Journal of Non-Crystalline Solids, 2007, 353, 914-918.	3.1	5
59	Influence of magnetic field and torsional stress on the skin penetration depth of Finemet wires. Journal of Magnetism and Magnetic Materials, 2007, 316, 475-477.	2.3	5
60	Magnetic field and low frequency dependence of impedance reactive component in nanocrystalline Fe73.5Cu1Nb3Si16.5B6 ribbons. Journal of Magnetism and Magnetic Materials, 1999, 203, 114-116.	2.3	4
61	Torsional stress dependence of reactance and resistance in Fe-rich amorphous wires at low frequencies. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 525-527.	2.3	4
62	Structural evolution and magnetic properties in Fe70Cr10B20 ribbons. Journal of Magnetism and Magnetic Materials, 2005, 294, e155-e158.	2.3	4
63	The effect of field-quenching fabrication on the magnetoimpedance response in Co66Fe4Ni1Si15B14 amorphous ribbons. Journal of Applied Physics, 2012, 111, .	2.5	4
64	An artificial neural network model for the prediction of bruxism by means of occlusal variables. Neural Computing and Applications, 2020, 32, 1259-1267.	5.6	4
65	Modeling of the magnetoimpedance response in low-magnetostriction amorphous wires. Journal of Magnetism and Magnetic Materials, 1996, 160, 241-242.	2.3	3
66	The effect of different annealing treatments on magneto-impedance in Finemet wires. Physica B: Condensed Matter, 2006, 384, 165-168.	2.7	3
67	Magnetoimpedance effect in Nanoperm alloys. Journal of Magnetism and Magnetic Materials, 2006, 300, e59-e62.	2.3	3
68	Î”E effect in amorphous microwires and fibres. Journal of Magnetism and Magnetic Materials, 1999, 195, 362-365.	2.3	2
69	Characterization of stress-annealed amorphous CoFeBSi ribbons by GMI and inductance spectroscopy. Journal of Magnetism and Magnetic Materials, 2005, 294, e159-e162.	2.3	2
70	Frequency evolution of the magnetoimpedance effect in stress annealed Co-rich amorphous ribbons. Applied Physics A: Materials Science and Processing, 2005, 81, 1299-1301.	2.3	2
71	Torsion and magnetic field effect in the impedance of FeSiBNbCu soft magnetic amorphous wires. Journal of Magnetism and Magnetic Materials, 2006, 304, e865-e867.	2.3	2
72	Fe70Cr10B20 metallic glass as a new candidate for nuclei of stress and magnetic field sensors. Sensors and Actuators A: Physical, 2006, 129, 66-68.	4.1	2

#	Article	IF	Citations
73	Torsion-induced magnetoimpedance in nanocrystalline Fe-based wires. Journal of Magnetism and Magnetic Materials, 2007, 316, e915-e918.	2.3	2
74	Off-diagonal magnetoimpedance effect in Fe80B20 amorphous ribbons. Journal of Non-Crystalline Solids, 2008, 354, 5147-5149.	3.1	2
75	Fe-Rich Wires as Elements for Torsion Sensors Based in Torsion Impedance Effect. Sensor Letters, 2007, 5, 89-92.	0.4	2
76	Effect of the wire length on the torsion impedance in Fe-rich wires. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1111-E1112.	2.3	1
77	Low-frequency circumferential magnetization curves in magnetostrictive amorphous wires. Journal of Magnetism and Magnetic Materials, 2005, 294, 202-205.	2.3	1
78	Pinning Field Distribution and Microstructural Study of Thermal Annealed Fe-Nb-Cu-Si-B Wires. IEEE Transactions on Magnetics, 2010, 46, 387-389.	2.1	1
79	Offâ€diagonal magnetoimpedance effect in field quenched Co₆₉Fe₄Si₁₅B₁₂ amorphous ribbons. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2265-2268.	1.8	1
80	Magnetostatic properties of amorphous and nanostructured Fe73.5Si13.5B9Cu1Nb3 wires. Journal of Non-Crystalline Solids, 2007, 353, 911-913.	3.1	0
81	TRANSVERSAL EXERCISES AMONG SUBJECTS OF FIRST YEAR IN MINING ENGINEERING. , 2020, , .		0