

# Maria Luisa Sanchez

## List of Publications by Year in descending order

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81  
papers

1,927  
citations

304743

22  
h-index

265206

42  
g-index

82  
all docs

82  
docs citations

82  
times ranked

991  
citing authors

#	ARTICLE	IF	CITATIONS
1	An artificial neural network model for the prediction of bruxism by means of occlusal variables. <i>Neural Computing and Applications</i> , 2020, 32, 1259-1267.	5.6	4
2	Effective extraction of high purity sulfur from industrial residue with low sulfur content. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8117-8124.	5.8	6
3	TRANSVERSAL EXERCISES AMONG SUBJECTS OF FIRST YEAR IN MINING ENGINEERING. , 2020, , .		0
4	Convolutional Neural Networks Approach for Solar Reconstruction in SCAO Configurations. <i>Sensors</i> , 2019, 19, 2233.	3.8	6
5	Successful sulfur recovery in low sulfurate compounds obtained from the zinc industry: Evaporationâ€condensation method. <i>Journal of Hazardous Materials</i> , 2017, 336, 168-173.	12.4	16
6	Experience with wavefront sensor and deformable mirror interfaces for wide-field adaptive optics systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 1350-1359.	4.4	29
7	Open-loop tomography with artificial neural networks on CANARY: on-sky results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 2508-2514.	4.4	50
8	First on-sky results of a neural network based tomographic reconstructor: Carmen on Canary. <i>Proceedings of SPIE</i> , 2014, , .	0.8	10
9	The effect of field-quenching fabrication on the magnetoimpedance response in Co <sub>66</sub> Fe <sub>4</sub> Ni <sub>15</sub> B <sub>14</sub> amorphous ribbons. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	4
10	Magnetoimpedance Response in Co-Based Amorphous Ribbons Obtained Under the Action of a Magnetic Field. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 4375-4377.	2.1	6
11	Exchange bias behavior in Ni <sub>50.0</sub> Mn <sub>35.5</sub> In <sub>14.5</sub> ribbons annealed at different temperatures. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3535-3537.	2.3	15
12	Magnetoimpedance in soft magnetic amorphous and nanostructured wires. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 433-445.	2.3	10
13	Off-diagonal magnetoimpedance effect in field quenched Co <sub>69</sub> Fe <sub>4</sub> Si <sub>15</sub> B <sub>12</sub> amorphous ribbons. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 2265-2268.	1.8	1
14	Pinning Field Distribution and Microstructural Study of Thermal Annealed Fe-Nb-Cu-Si-B Wires. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 387-389.	2.1	1
15	Domain wall dynamics during the devitrification of Fe <sub>73.5</sub> CuNb <sub>3</sub> Si <sub>11.5</sub> B <sub>11</sub> magnetic microwires. <i>Physical Review B</i> , 2010, 82, .	3.2	24
16	Domain wall dynamics in Fe-rich glass covered amorphous microwires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 618-621.	1.8	10
17	Magnetic characterization of Cu <sub>56</sub> Ga <sub>28</sub> Mn <sub>16</sub> microwires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 644-647.	1.8	15
18	Grain oriented NiMnSn and NiMnIn Heusler alloys ribbons produced by melt spinning: Martensitic transformation and magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 763-768.	2.3	81

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19	The effect of ball milling in the microstructure and magnetic properties of Pr <sub>2</sub> Fe <sub>17</sub> compound. Journal of Alloys and Compounds, 2009, 483, 682-685.	5.5	12
20	Magnetocaloric effect in nanogranular glass coated microwires. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1378-1381.	1.8	32
21	Fast domain wall dynamics in amorphous glass-coated microwires. Journal of Magnetism and Magnetic Materials, 2008, 320, 2534-2537.	2.3	12
22	Non-isothermal approach to crystallization process of a Co-rich alloy. Journal of Non-Crystalline Solids, 2008, 354, 5126-5128.	3.1	11
23	Off-diagonal magnetoimpedance effect in Fe <sub>80</sub> B <sub>20</sub> amorphous ribbons. Journal of Non-Crystalline Solids, 2008, 354, 5147-5149.	3.1	2
24	Martensitic phase transformation in rapidly solidified Mn <sub>50</sub> Ni <sub>40</sub> In <sub>10</sub> alloy ribbons. Applied Physics Letters, 2008, 92, .	3.3	122
25	Method of Submerged Stokeslets for Slip Flow About Ensembles of Particles. Journal of Nanoscience and Nanotechnology, 2008, 8, 3790-3801.	0.9	12
26	Microstructure and magnetic properties of Ni <sub>50</sub> Mn <sub>37</sub> Sn <sub>13</sub> Heusler alloy ribbons. Journal of Applied Physics, 2008, 103, .	2.5	85
27	Temperature Dependence of Magnetoimpedance and Anisotropy in Nanocrystalline Finemet Wire. IEEE Transactions on Magnetics, 2008, 44, 3965-3968.	2.1	7
28	Temperature Dependence of the Magnetization Reversal Process and Domain Structure in Fe <sub>77.5-x</sub> Ni <sub>x</sub> Si <sub>7.5</sub> B <sub>15</sub> Magnetic Microwires. IEEE Transactions on Magnetics, 2008, 44, 3946-3949.	2.1	14
29	Magnetic domain structure of amorphous Fe <sub>73.5</sub> Si <sub>13.5</sub> B <sub>9</sub> Nb <sub>3</sub> Cu <sub>1</sub> wires under torsional stress. Journal of Applied Physics, 2008, 103, 07E716.	2.5	18
30	Magnetostatic properties of amorphous and nanostructured Fe <sub>73.5</sub> Si <sub>13.5</sub> B <sub>9</sub> Cu <sub>1</sub> Nb <sub>3</sub> wires. Journal of Non-Crystalline Solids, 2007, 353, 911-913.	3.1	0
31	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
32	Torsion-induced magnetoimpedance in nanocrystalline Fe-based wires. Journal of Magnetism and Magnetic Materials, 2007, 316, e915-e918.	2.3	2
33	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
34	Fe-Rich Wires as Elements for Torsion Sensors Based in Torsion Impedance Effect. Sensor Letters, 2007, 5, 89-92.	0.4	2
35	The effect of different annealing treatments on magneto-impedance in Finemet wires. Physica B: Condensed Matter, 2006, 384, 165-168.	2.7	3
36	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

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37	Fe70Cr10B20 metallic glass as a new candidate for nuclei of stress and magnetic field sensors. <i>Sensors and Actuators A: Physical</i> , 2006, 129, 66-68.	4.1	2
38	Soft magnetic properties, magnetoimpedance and torsion-impedance effects in amorphous and nanocrystalline FINEMET alloys: Comparison between ribbons and wires. <i>Physics of Metals and Metallography</i> , 2006, 102, S13-S20.	1.0	10
39	High-frequency magnetoimpedance in amorphous and nanostructured Fe73.5Si13.5B9Cu1Nb3 wires. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 300, 24-28.	2.3	6
40	Magnetoimpedance effect in Nanoperm alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 300, e59-e62.	2.3	3
41	Low-frequency circumferential magnetization curves in magnetostrictive amorphous wires. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 294, 202-205.	2.3	1
42	Structural evolution and magnetic properties in Fe70Cr10B20 ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 294, e155-e158.	2.3	4
43	Characterization of stress-annealed amorphous CoFeBSi ribbons by GMI and inductance spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 294, e159-e162.	2.3	2
44	Magnetic structure of Fe-based amorphous and thermal annealed microwires. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 294, e163-e166.	2.3	8
45	Frequency evolution of the magnetoimpedance effect in stress annealed Co-rich amorphous ribbons. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 1299-1301.	2.3	2
46	Effect of the wire length on the torsion impedance in Fe-rich wires. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E1111-E1112.	2.3	1
47	GMI sensitive element based on commercial Vitrovac <sup>®</sup> amorphous ribbon. <i>Sensors and Actuators A: Physical</i> , 2004, 110, 228-231.	4.1	5
48	Influence of stress relief on hysteretic magnetoimpedance in Co-rich amorphous ribbons at the relaxation frequency. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 77, 135-140.	2.3	14
49	Torsional stress dependence of reactance and resistance in Fe-rich amorphous wires at low frequencies. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 254-255, 525-527.	2.3	4
50	Torsional impedance effect in Fe-rich amorphous wires. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 258-259, 158-160.	2.3	7
51	Magnetoimpedance effect in Co-rich metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 258-259, 183-188.	2.3	6
52	Very high GMI effect in commercial Vitrovac <sup>®</sup> amorphous ribbons. <i>Sensors and Actuators A: Physical</i> , 2003, 106, 195-198.	4.1	12
53	Magneto-impedance effect in nanostructured soft ferromagnetic alloys. <i>Nanotechnology</i> , 2003, 14, 231-238.	2.6	38
54	Giant-magnetoimpedance-based sensitive element as a model for biosensors. <i>Applied Physics Letters</i> , 2003, 82, 3053-3055.	3.3	250

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55	Torsion impedance of CoFeSiB amorphous wires. Journal of Magnetism and Magnetic Materials, 2002, 249, 269-273.	2.3	5
56	Magnetic domains and magnetoimpedance effect during the nanocrystallization of Fe <sub>73.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> Si <sub>16.5</sub> B <sub>6</sub> ribbons. Journal of Non-Crystalline Solids, 2001, 287, 396-400.	3.1	12
57	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
58	Magnetoimpedance effect in amorphous and nanocrystalline ribbons. Journal of Applied Physics, 2001, 90, 4783-4790.	2.5	65
59	Magneto-impedance effect in amorphous ribbons for stress sensor application. Sensors and Actuators A: Physical, 2000, 81, 98-101.	4.1	27
60	Frequency dependence of hysteretic magnetoimpedance in CoFeMoSiB amorphous ribbons. Journal of Magnetism and Magnetic Materials, 2000, 215-216, 425-427.	2.3	15
61	Stress and magnetic field dependence of magneto-impedance in amorphous Co <sub>66.3</sub> Fe <sub>3.7</sub> Si <sub>12</sub> B <sub>18</sub> ribbons. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 330-332.	2.3	12
62	$\hat{\mu}^*E$ effect in amorphous microwires and fibres. Journal of Magnetism and Magnetic Materials, 1999, 195, 362-365.	2.3	2
63	Magnetic field and low frequency dependence of impedance reactive component in nanocrystalline Fe <sub>73.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> Si <sub>16.5</sub> B <sub>6</sub> ribbons. Journal of Magnetism and Magnetic Materials, 1999, 203, 114-116.	2.3	4
64	Magnetoimpedance effect in zero magnetostriction nanocrystalline Fe <sub>73.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> Si <sub>16.5</sub> B <sub>6</sub> ribbons. Journal of Magnetism and Magnetic Materials, 1998, 185, 61-65.	2.3	53
65	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
66	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
67	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
68	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
69	Giant magnetoimpedance effect in soft magnetic wires for sensor applications. Sensors and Actuators A: Physical, 1997, 59, 20-29.	4.1	179
70	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
71	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
72	Modeling of the magnetoimpedance response in low-magnetostriction amorphous wires. Journal of Magnetism and Magnetic Materials, 1996, 160, 241-242.	2.3	3

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73	The frequency dependence of permeability in Co <sub>66.5</sub> Fe <sub>3.5</sub> Si <sub>12</sub> B <sub>18</sub> metallic glasses. Journal of Magnetism and Magnetic Materials, 1996, 160, 311-312.	2.3	7
74	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
75	Circumferential permeability in nonmagnetostrictive amorphous wires. Journal of Materials Research, 1996, 11, 2486-2489.	2.6	26
76	Giant magneto-impedance effect in nanostructured magnetic wires. Journal of Applied Physics, 1996, 79, 1646-1654.	2.5	191
77	Magnetization processes in metallic glasses for fluxgate sensors. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 349-350.	2.3	15
78	Stress dependence of the giant magneto-impedance effect in amorphous wires. Journal of Physics Condensed Matter, 1995, 7, L115-L120.	1.8	69
79	Influence of nanocrystallization on the magneto-impedance effect in FeCuNbSiB amorphous wires. IEEE Transactions on Magnetics, 1995, 31, 4009-4011.	2.1	25
80	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
81	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