

MarÃ-a Luisa FernÃ;ndez-Gubieda Ruiz

List of Publications by Year in descending order

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121
all docs

121
docs citations

121
times ranked

2741
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and Magnetic Properties of Thin Permalloy Films Near the "Transcritical" State. IEEE Transactions on Magnetics, 2010, 46, 333-336.	1.2	114
2	Electrochemical Na Extraction/Insertion of Na ₃ V ₂ O ₂ (PO ₄) ₂ F ₃ . Chemistry of Materials, 2013, 25, 4917-4925.		112
3	Sodium Distribution and Reaction Mechanisms of a Na ₃ V ₂ O ₂ (PO ₄) ₂ F Electrode during Use in a Sodium-Ion Battery. Chemistry of Materials, 2014, 26, 3391-3402.	3.2	112
4	Magnetite Biomineralization in Magnetospirillum gryphiswaldense: Time-Resolved Magnetic and Structural Studies. ACS Nano, 2013, 7, 3297-3305.	7.3	107
5	Anisotropy effects in magnetic hyperthermia: A comparison between spherical and cubic exchange-coupled FeO/Fe ₃ O ₄ nanoparticles. Journal of Applied Physics, 2015, 117, .	1.1	103
6	Optimal Parameters for Hyperthermia Treatment Using Biomineralized Magnetite Nanoparticles: Theoretical and Experimental Approach. Journal of Physical Chemistry C, 2016, 120, 24437-24448.	1.5	94
7	Interplay between microstructure and magnetism in NiO nanoparticles: breakdown of the antiferromagnetic order. Nanoscale, 2014, 6, 457-465.	2.8	90
8	Unlocking the Potential of Magnetotactic Bacteria as Magnetic Hyperthermia Agents. Small, 2019, 15, e1902626.	5.2	79
9	Crossover from superspin glass to superferromagnet in Fe _x Ag _{100-x} nanostructured thin films (20 ≤ x ≤ 50). Physical Review B, 2010, 82, .	1.1	68
10	Ni Doped Fe ₃ O ₄ Magnetic Nanoparticles. Journal of Nanoscience and Nanotechnology, 2012, 12, 2652-2660.	0.9	55
11	Tensile stress dependence of the Curie temperature and hyperfine field in Fe-Zr-B-(Cu) amorphous alloys. Physical Review B, 1996, 54, 3026-3029.	1.1	50
12	FeNi-based magnetoimpedance multilayers: Tailoring of the softness by magnetic spacers. Applied Physics Letters, 2012, 100, .	1.5	47
13	Configuration of the magnetosome chain: a natural magnetic nanoarchitecture. Nanoscale, 2018, 10, 7407-7419.	2.8	47
14	Magnetotactic bacteria for cancer therapy. Journal of Applied Physics, 2020, 128, .	1.1	37
15	Local structure and ferromagnetic character of Fe-B and Fe-P amorphous alloys. Physical Review B, 2000, 62, 5746-5750.	1.1	36
16	Preparation and characterisation of Cu-Co heterogeneous alloys by potentiostatic electrodeposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 335, 94-100.	2.6	36
17	Microstructural and magnetic evolution upon annealing of giant magnetoresistance melt-spun Co-Cu granular alloys. Physical Review B, 2003, 67, .	1.1	35
18	Enhanced mass sensitivity in novel magnetoelastic resonator geometries for advanced detection systems. Sensors and Actuators B: Chemical, 2019, 296, 126612.	4.0	32

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19	Disk-shaped magnetic particles for cancer therapy. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	32
20	Magnetic and transport properties of Fe - Zr - B - (Cu) amorphous alloys. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 5671-5685.	0.7	31
21	A Milestone in the Chemical Synthesis of Fe ₃ O ₄ Nanoparticles: Unreported Bulklike Properties Lead to a Remarkable Magnetic Hyperthermia. <i>Chemistry of Materials</i> , 2021, 33, 8693-8704.	3.2	31
22	Magnetic and Mossbauer study of amorphous and nanocrystalline Fe ₈₆ Zr ₇ Cu ₁ B ₆ alloys. <i>IEEE Transactions on Magnetics</i> , 1993, 29, 2682-2684.	1.2	30
23	Enhanced magnetic anisotropy and heating efficiency in multi-functional manganese ferrite/graphene oxide nanostructures. <i>Nanotechnology</i> , 2016, 27, 155707.	1.3	30
24	Magnetization reversal in circular vortex dots of small radius. <i>Nanoscale</i> , 2017, 9, 11269-11278.	2.8	29
25	Highly Reproducible Hyperthermia Response in Water, Agar, and Cellular Environment by Discretely PEGylated Magnetite Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27917-27929.	4.0	27
26	Size-induced superantiferromagnetism with reentrant spin-glass behavior in metallic nanoparticles of TbCu ₂ . <i>Physical Review B</i> , 2013, 87, .	1.1	26
27	Mn-Doping level dependence on the magnetic response of Mn _x Fe _{3-4x} O ₄ ferrite nanoparticles. <i>Dalton Transactions</i> , 2019, 48, 11480-11491.	1.6	26
28	Correlation between structure and magnetic behavior of Fe-P amorphous alloys. <i>Physical Review B</i> , 1995, 52, 12805-12812.	1.1	25
29	On the mineral core of ferritin-like proteins: structural and magnetic characterization. <i>Nanoscale</i> , 2016, 8, 1088-1099.	2.8	25
30	Temperature dependence of the Mössbauer spectra of amorphous and nanocrystallized Fe ₈₆ Zr ₇ Cu ₁ B ₆ . <i>Hyperfine Interactions</i> , 1994, 94, 2199-2205.	0.2	24
31	Interfacial magnetic coupling between Fe nanoparticles in Fe-Ag granular alloys. <i>Nanotechnology</i> , 2012, 23, 025705.	1.3	24
32	Magnetic Study of Co-Doped Magnetosome Chains. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7541-7550.	1.5	24
33	High-magnetic field characterization of magnetocaloric effect in FeZrB(Cu) amorphous ribbons. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	23
34	Influence of the bacterial growth phase on the magnetic properties of magnetosomes synthesized by <i>Magnetospirillum gryphiswaldense</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1507-1514.	1.1	23
35	Evidence of strong short-range order in (Fe _{0.2} Co _{0.8}) ₇₅ Si _x B _{25-4x} amorphous alloys from EXAFS spectroscopy. <i>Physical Review B</i> , 1996, 53, 620-628.	1.1	22
36	-Interface effects on the magnetic moment of Co and Cu in CoCu granular alloys. <i>Physical Review B</i> , 2005, 72, .	1.1	22

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37	Annealing influence on the atomic ordering and magnetic moment in a Ni-Mn-Ga alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e610-e613.	1.0	20
38	Shaping Up Zn-Doped Magnetite Nanoparticles from Mono- and Bimetallic Oleates: The Impact of Zn Content, Fe Vacancies, and Morphology on Magnetic Hyperthermia Performance. <i>Chemistry of Materials</i> , 2021, 33, 3139-3154.	3.2	19
39	Structural evolution of Co clusters in Co ₁₅ Cu ₈₅ granular alloys by EXAFS spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 221, 80-86.	1.0	18
40	XAS and XMCD study of the influence of annealing on the atomic ordering and magnetism in an NiMnGa alloy. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 016002.	0.7	18
41	Assemblies of magnetite nanoparticles extracted from magnetotactic bacteria: A magnetic study. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	18
42	Magnetosomes could be protective shields against metal stress in magnetotactic bacteria. <i>Scientific Reports</i> , 2020, 10, 11430.	1.6	18
43	Magnetostatic interactions in various magnetosome clusters. <i>Journal of Applied Physics</i> , 2013, 113, 023907.	1.1	17
44	Magnetic phase diagram of superantiferromagnetic TbCu ₂ nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 496002.	0.7	15
45	Elucidating the role of shape anisotropy in faceted magnetic nanoparticles using biogenic magnetosomes as a model. <i>Nanoscale</i> , 2020, 12, 16081-16090.	2.8	15
46	Influence of the short-range order on the magnetic properties of metallic glasses. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 3807-3822.	0.7	14
47	Direct experimental evidence of an anomalous Co segregation in Co-Cu granular alloys and its influence on magnetoresistance. <i>Europhysics Letters</i> , 2002, 59, 855-861.	0.7	14
48	Comparative study of the structure and magnetic properties of Co-P and Fe-P amorphous alloys. <i>Physical Review B</i> , 2000, 61, 6238-6245.	1.1	13
49	Magnetic disorder in diluted Fe _x M _{100-x} granular thin films (M=Au, Ag, Cu; 10 at.%). <i>Journal of Physics Condensed Matter</i> , 2013, 25, 276001.	0.7	13
50	Properties of Dense Assemblies of Magnetic Nanoparticles Promising for Application in Biomedicine. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 1079-1083.	0.8	13
51	Medium-range order as an intrinsic property of Co-rich amorphous alloys. <i>Europhysics Letters</i> , 1997, 40, 43-48.	0.7	12
52	Microstructure and magnetic properties of colloidal cobalt nano-clusters. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 3565-3571.	1.0	11
53	Breakdown of magnetism in sub-nanometric Ni clusters embedded in Ag. <i>Nanotechnology</i> , 2015, 26, 455703.	1.3	11
54	Probing the stability and magnetic properties of magnetosome chains in freeze-dried magnetotactic bacteria. <i>Nanoscale Advances</i> , 2020, 2, 1115-1121.	2.2	11

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55	Simultaneous observation of viscoelastic deformation and induced magnetic anisotropy in $[\text{Co}_{1-x}(\text{FeNi})_x]_{75}\text{Si}_{15}\text{B}_{10}$ metallic glasses. <i>Journal of Applied Physics</i> , 1987, 62, 2579-2582.	1.1	10
56	Influence of the interface on the magnetic anisotropy of CoCu granular alloys. <i>Physica B: Condensed Matter</i> , 2004, 354, 92-97.	1.3	10
57	Magnetic nanoscopic correlations in the crossover between a superspin glass and a superferromagnet. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	10
58	Investigating the Size and Microstrain Influence in the Magnetic Order/Disorder State of GdCu ₂ Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 1117.	1.9	10
59	Stress and annealing induced changes in the Curie temperature of amorphous and nanocrystalline FeZr and FeNb based alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 157-158, 203-204.	1.0	9
60	Controlled Magnetic Anisotropy in Single Domain Mn-doped Biosynthesized Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22827-22838.	1.5	9
61	Nanoflowers Versus Magnetosomes: Comparison Between Two Promising Candidates for Magnetic Hyperthermia Therapy. <i>IEEE Access</i> , 2021, 9, 99552-99561.	2.6	9
62	Structure and magnetic properties of Fe _{1-x} Co _x P amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 164-165.	1.0	7
63	Influence of the preparation method on the properties of Cu-Co heterogeneous alloys. <i>Journal of Non-Crystalline Solids</i> , 2001, 287, 26-30.	1.5	7
64	Nitrogen incorporation effects in Fe(001) thin films. <i>Journal of Applied Physics</i> , 2001, 89, 6314-6319.	1.1	7
65	Neutron and synchrotron studies of structure and magnetism of Shape Memory Alloys. <i>Journal of Physics: Conference Series</i> , 2015, 663, 012014.	0.3	7
66	Studying nanoparticles' 3D shape by aspect maps: Determination of the morphology of bacterial magnetic nanoparticles. <i>Faraday Discussions</i> , 2016, 191, 177-188.	1.6	7
67	⁵⁷ Fe Mössbauer study of the (FeCo) ₇₅ SiB metallic alloy series. <i>Journal of Applied Physics</i> , 1995, 77, 3338-3342.	1.1	6
68	The effect of the deposition parameters on the magnetic and magnetotransport properties of laser ablated Cu-Co thin films. <i>Sensors and Actuators A: Physical</i> , 2003, 106, 203-207.	2.0	6
69	Magnetic and magnetotransport properties of Fe nanoparticles embedded in Ag matrix. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 1071-1074.	1.0	6
70	X-ray absorption analysis of core/shell magnetic (Fe,Co)-B nanoparticles of amorphous and crystalline structure obtained by chemical reduction. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 733-737.	1.5	6
71	Correlation among the structural and magnetic properties of CoCu granular alloys. <i>Journal of Applied Physics</i> , 2002, 91, 8596.	1.1	5
72	Synthesis and characterisation of electrodeposited Cu ₉₀ Co ₁₀ thin film. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 254-255, 85-87.	1.0	4

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73	Surfactant-assisted production of TbCu ₂ nanoparticles. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	4
74	Towards the design of contrast-enhanced agents: systematic Ga ³⁺ doping on magnetite nanoparticles. Dalton Transactions, 2022, 51, 2517-2530.	1.6	4
75	Magnetic Anisotropy of Individual Nanomagnets Embedded in Biological Systems Determined by Axi-symmetric X-ray Transmission Microscopy. ACS Nano, 2022, 16, 7398-7408.	7.3	4
76	Magnetic study of electrodeposited Cu–Co heterogeneous alloys. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 53-55.	1.0	3
77	Different ferromagnetic character of Fe in FeB and FeP amorphous alloys. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 204-206.	1.0	3
78	Structure and magnetic properties in CoCu granular alloys. Nuclear Instruments & Methods in Physics Research B, 2003, 200, 215-219.	0.6	3
79	Magnetic relaxation in melt-spun amorphous and nanocrystalline Mn-doped nanocrystalline alloy. Journal of Magnetism and Magnetic Materials, 2007, 310, 2466-2468.	1.0	3
80	Influence of the Si Substrate on the Transport and Magnetotransport Properties of Nanostructured Fe-Ag Thin Films. IEEE Transactions on Magnetics, 2008, 44, 2784-2787.	1.2	3
81	Influence of the interface on the electronic channel switching of a Fe–Ag thin film on a Si substrate. Applied Physics Letters, 2009, 95, .	1.5	3
82	Collective magnetic behaviors of Fe–Ag nanostructured thin films above the percolation limit. Journal of Applied Physics, 2009, 105, 07B513.	1.1	3
83	Effects of thermal annealing on the magnetic interactions in nanogranular Fe–Ag thin films. Journal of Alloys and Compounds, 2012, 536, S271-S276.	2.8	3
84	On the exchange bias effect in NiO nanoparticles with a core(antiferromagnetic)/shell (spin glass) morphology. Journal of Physics: Conference Series, 2015, 663, 012001.	0.3	3
85	Search for Magnetite Nanoparticles in the Rats' Brain. IEEE Transactions on Magnetics, 2015, 51, 1-3.	1.2	3
86	Magnetocaloric properties of rapidly solidified Dy ₃ Co alloy ribbons. Journal of Applied Physics, 2015, 117, 17A706.	1.1	3
87	Study of the influence of sensor permeability in the detection of a single magnetotactic bacterium. Journal of Magnetism and Magnetic Materials, 2020, 500, 166346.	1.0	3
88	Modifying the magnetic response of magnetotactic bacteria: incorporation of Gd and Tb ions into the magnetosome structure. Nanoscale Advances, 2022, 4, 2649-2659.	2.2	3
89	Influence of metalloids on the XANES spectra of metallic glasses. Journal of Non-Crystalline Solids, 2001, 287, 60-64.	1.5	2
90	The local structure from two experimental atomic probes: EXAFS and Mössbauer spectroscopies. Journal of Non-Crystalline Solids, 2001, 287, 75-80.	1.5	2

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91	Observation of the segregation and the dissolution of the Co and the Cu in CoCu metastable alloys. Journal of Synchrotron Radiation, 2001, 8, 883-885.	1.0	2
92	The properties of Co-Cu melt-spun ribbons and thin films: similarity and difference. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 115-117.	1.0	2
93	Time-resolved X-ray diffraction experiments during annealing of Co ₁₅ Cu ₈₅ granular alloy. Journal of Magnetism and Magnetic Materials, 2003, 262, 92-96.	1.0	2
94	Relationship between the nanostructure of Co ₁₅ Cu ₈₅ melt-spun alloys and the AC-susceptibility behaviour. Journal of Magnetism and Magnetic Materials, 2003, 262, 97-101.	1.0	2
95	Microstructure studies through the analysis of the hysteresis loop in granular alloys. Physica B: Condensed Matter, 2004, 343, 364-368.	1.3	2
96	Magnetic and magnetotransport behavior of granular Fe _x Ag _{100-x} thin films. Journal of Non-Crystalline Solids, 2007, 353, 944-946.	1.5	2
97	Magnetic Hyperthermia: Unlocking the Potential of Magnetotactic Bacteria as Magnetic Hyperthermia Agents (Small 41/2019). Small, 2019, 15, 1970222.	5.2	2
98	Mossbauer study of amorphous (Fe _{TM}) ₈₀ B ₂₀ . IEEE Transactions on Magnetism, 1994, 30, 536-538.	1.2	1
99	Differential anomalous scattering on Fe-Co-based metallic glasses. Journal of Physics Condensed Matter, 1999, 11, 10199-10210.	0.7	1
100	X-ray magnetic circular dichroism in FeZrB amorphous alloys: the influence of the tensile stress. Journal of Synchrotron Radiation, 2001, 8, 443-445.	1.0	1
101	Influence of the interface on the magnetic moment of Co clusters in CoCu granular alloys. IEEE Transactions on Magnetism, 2005, 41, 3421-3423.	1.2	1
102	The role of the interface on the magnetic behaviour of granular Fe ₅₀ Ag ₅₀ film. Journal of Magnetism and Magnetic Materials, 2007, 310, 2510-2512.	1.0	1
103	Ferromagnetic resonance study of granular film. Journal of Magnetism and Magnetic Materials, 2007, 316, e59-e62.	1.0	1
104	Poly(methyl methacrylate) Coating of Soft Magnetic Amorphous and Crystalline Fe,Co-B Nanoparticles by Chemical Reduction. Journal of Nanoscience and Nanotechnology, 2012, 12, 1843-1851.	0.9	1
105	Influence of the Interactions on the Magnetotransport Properties of Fe-Ag Granular Thin Films. Journal of Nanoscience and Nanotechnology, 2012, 12, 7473-7476.	0.9	1
106	Magnetostrictive Properties of Polymer-Bonded Terfenol-D Composites. Sensor Letters, 2007, 5, 23-25.	0.4	1
107	Observation of a Strong Short Range Order in Co Rich Amorphous Alloys Prepared by Different Methods. European Physical Journal Special Topics, 1997, 7, C2-995-C2-996.	0.2	1
108	MOSSBAUER SPECTROSCOPY IN Fe RICH AMORPHOUS ALLOYS. Journal De Physique Colloque, 1988, 49, C8-1367-C8-1368.	0.2	0

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109	Magnetization evolution during thermal treatments of CoCu metastable alloys. Journal of Non-Crystalline Solids, 2001, 287, 282-285.	1.5	0
110	Title is missing!. Russian Physics Journal, 2002, 45, 1181-1189.	0.2	0
111	In situ observation of the structural changes induced by thermal annealing on melt-spun Co ₁₅ Cu ₈₅ granular alloys. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 82-84.	1.0	0
112	Magnetotransport properties and local atomic order around Fe in Fe ₃₀ Ag ₇₀ thin films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1397-E1398.	1.0	0
113	Magnetostrictive and mechanical properties of Terfenol-D composites based on polymer. Proceedings of SPIE, 2007, , .	0.8	0
114	Correction to "Influence of the Si Substrate on the Transport and Magnetotransport Properties of Nanostructured Fe-Ag Thin Films" [Nov 09 2784-2787]. IEEE Transactions on Magnetics, 2009, 45, 3365-3365.	1.2	0
115	Magnetic disorder in nanostructured Fe ₇ Au ₉₃ films and Fe ₁₄ Au ₈₆ powders. Journal of Physics: Conference Series, 2010, 200, 072028.	0.3	0
116	Magnetic properties of colloidal cobalt nanoclusters. Journal of Physics: Conference Series, 2010, 200, 072100.	0.3	0
117	Study of surface effects on CoCu nanogranular alloys by ferromagnetic resonance. Journal of Applied Physics, 2012, 111, 07C105.	1.1	0
118	EXAFS and Mössbauer Study of the Crystallization of Fe ₉₁ Zr ₉ Metallic Glass. European Physical Journal Special Topics, 1997, 7, C2-1125-C2-1126.	0.2	0
119	Influence of the Structure in Magnetic Properties in Co-P Electrodeposited Amorphous Alloys. European Physical Journal Special Topics, 1997, 7, C2-997-C2-998.	0.2	0
120	Correction to "Magnetic Study of Co-Doped Magnetosome Chains" Journal of Physical Chemistry C, 0, , .	1.5	0