Mara Luisa Fernndez-Gubieda Ruiz

List of Publications by Year in Descending Order

111 papers	1,739 citations	22 h-index	37 g-index
121 ext. papers	1,997 ext. citations	3.8 avg, IF	4.36 L-index

#	Paper	IF	Citations
111	A Milestone in the Chemical Synthesis of FeO Nanoparticles: Unreported Bulklike Properties Lead to a Remarkable Magnetic Hyperthermia. *Chemistry of Materials*, **2021**, 33, 8693-8704	9.6	1
110	Shaping Up Zn-Doped Magnetite Nanoparticles from Mono- and Bimetallic Oleates: The Impact of Zn Content, Fe Vacancies, and Morphology on Magnetic Hyperthermia Performance. *Chemistry of Materials*, **2021**, 33, 3139-3154	9.6	6
109	Nanoflowers Versus Magnetosomes: Comparison Between Two Promising Candidates for Magnetic Hyperthermia Therapy. *IEEE Access*, **2021**, 9, 99552-99561	3.5	3
108	Highly Reproducible Hyperthermia Response in Water, Agar, and Cellular Environment by Discretely PEGylated Magnetite Nanoparticles. *ACS Applied Materials & Interfaces*, **2020**, 12, 27917-27929	9.5	13
107	Investigating the Size and Microstrain Influence in the Magnetic Order/Disorder State of GdCu Nanoparticles. *Nanomaterials*, **2020**, 10,	5.4	3
106	Probing the stability and magnetic properties of magnetosome chains in freeze-dried magnetotactic bacteria. *Nanoscale Advances*, **2020**, 2, 1115-1121	5.1	8
105	Elucidating the role of shape anisotropy in faceted magnetic nanoparticles using biogenic magnetosomes as a model. *Nanoscale*, **2020**, 12, 16081-16090	7.7	9
104	Disk-shaped magnetic particles for cancer therapy. *Applied Physics Reviews*, **2020**, 7, 011306	17.3	10
103	Study of the influence of sensor permeability in the detection of a single magnetotactic bacterium. *Journal of Magnetism and Magnetic Materials*, **2020**, 500, 166346	2.8	2
102	Controlled Magnetic Anisotropy in Single Domain Mn-doped Biosynthesized Nanoparticles. *Journal of Physical Chemistry C*, **2020**, 124, 22827-22838	3.8	3
101	Magnetosomes could be protective shields against metal stress in magnetotactic bacteria. *Scientific Reports*, **2020**, 10, 11430	4.9	10
100	Magnetotactic bacteria for cancer therapy. *Journal of Applied Physics*, **2020**, 128, 070902	2.5	20
99	Unlocking the Potential of Magnetotactic Bacteria as Magnetic Hyperthermia Agents. *Small*, **2019**, 15, e1902626	11	49
98	Mn-Doping level dependence on the magnetic response of MnFeO ferrite nanoparticles. *Dalton Transactions*, **2019**, 48, 11480-11491	4.3	19
97	Enhanced mass sensitivity in novel magnetoelastic resonators geometries for advanced detection systems. *Sensors and Actuators B: Chemical*, **2019**, 296, 126612	8.5	21
96	Magnetic Hyperthermia: Unlocking the Potential of Magnetotactic Bacteria as Magnetic Hyperthermia Agents (Small 41/2019). *Small*, **2019**, 15, 1970222	11	2
95	Configuration of the magnetosome chain: a natural magnetic nanoarchitecture. *Nanoscale*, **2018**, 10, 7407-7419	7.7	34

94	Magnetic Study of Co-Doped Magnetosome Chains. *Journal of Physical Chemistry C*, **2018**, 122, 7541-7550	3.8	14
93	Influence of the bacterial growth phase on the magnetic properties of magnetosomes synthesized by Magnetospirillum gryphiswaldense. *Biochimica Et Biophysica Acta - General Subjects*, **2017**, 1861, 1507-1514	4	17
92	Magnetization reversal in circular vortex dots of small radius. *Nanoscale*, **2017**, 9, 11269-11278	7.7	21
91	Surfactant-assisted production of TbCu2 nanoparticles. *Journal of Nanoparticle Research*, **2017**, 19, 1	2.3	4
90	Studying nanoparticles' 3D shape by aspect maps: Determination of the morphology of bacterial magnetic nanoparticles. *Faraday Discussions*, **2016**, 191, 177-188	3.6	5
89	Magnetic nanoscopic correlations in the crossover between a superspin glass and a superferromagnet. *Journal of Applied Physics*, **2016**, 119, 143902	2.5	9
88	On the mineral core of ferritin-like proteins: structural and magnetic characterization. *Nanoscale*, **2016**, 8, 1088-99	7.7	20
87	X-Ray Absorption Fine Structure Spectroscopy in Fe Oxides and Oxyhydroxides **2016**, 397-422		8
86	Assemblies of magnetite nanoparticles extracted from magnetotactic bacteria: A magnetic study. *Applied Physics Letters*, **2016**, 108, 063109	3.4	15
85	Enhanced magnetic anisotropy and heating efficiency in multi-functional manganese ferrite/graphene oxide nanostructures. *Nanotechnology*, **2016**, 27, 155707	3.4	25
84	Optimal Parameters for Hyperthermia Treatment Using Biomineralized Magnetite Nanoparticles: Theoretical and Experimental Approach. *Journal of Physical Chemistry C*, **2016**, 120, 24437-24448	3.8	71
83	Magnetocaloric properties of rapidly solidified Dy3Co alloy ribbons. *Journal of Applied Physics*, **2015**, 117, 17A706	2.5	3
82	High-magnetic field characterization of magnetocaloric effect in FeZrB(Cu) amorphous ribbons. *Journal of Applied Physics*, **2015**, 117, 17A710	2.5	18
81	Neutron and synchrotron studies of structure and magnetism of Shape Memory Alloys. *Journal of Physics: Conference Series*, **2015**, 663, 012014	0.3	6
80	Breakdown of magnetism in sub-nanometric Ni clusters embedded in Ag. *Nanotechnology*, **2015**, 26, 455703	3.4	9
79	Anisotropy effects in magnetic hyperthermia: A comparison between spherical and cubic exchange-coupled FeO/Fe3O4 nanoparticles. *Journal of Applied Physics*, **2015**, 117, 17A337	2.5	83
78	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	2
77	Magnetic phase diagram of superantiferromagnetic TbCu□nanoparticles. *Journal of Physics Condensed Matter*, **2015**, 27, 496002	1.8	10

76	Search for Magnetite Nanoparticles in the Rats' Brain. *IEEE Transactions on Magnetics*, **2015**, 51, 1-3	2	2
75	Sodium Distribution and Reaction Mechanisms of a Na3V2O2(PO4)2F Electrode during Use in a Sodium-Ion Battery. *Chemistry of Materials*, **2014**, 26, 3391-3402	9.6	91
74	Interplay between microstructure and magnetism in NiO nanoparticles: breakdown of the antiferromagnetic order. *Nanoscale*, **2014**, 6, 457-65	7.7	72
73	Magnetic disorder in diluted FexM100-x granular thin films (M=Au, Ag, Cu; x *Journal of Physics Condensed Matter*, **2013**, 25, 276001	1.8	10
72	Magnetostatic interactions in various magnetosome clusters. *Journal of Applied Physics*, **2013**, 113, 023907	2.5	14
71	Magnetite biomineralization in Magnetospirillum gryphiswaldense: time-resolved magnetic and structural studies. *ACS Nano*, **2013**, 7, 3297-305	16.7	96
70	Size-induced superantiferromagnetism with reentrant spin-glass behavior in metallic nanoparticles of TbCu2. *Physical Review B*, **2013**, 87,	3.3	21
69	Properties of Dense Assemblies of Magnetic Nanoparticles Promising for Application in Biomedicine. *Journal of Superconductivity and Novel Magnetism*, **2013**, 26, 1079-1083	1.5	11
68	Electrochemical Na Extraction/Insertion of Na3V2O2x(PO4)2F32x. *Chemistry of Materials*, **2013**, 25, 4917-4925	9.6	96
67	Effects of thermal annealing on the magnetic interactions in nanogranular FeAg thin films. *Journal of Alloys and Compounds*, **2012**, 536, S271-S276	5.7	3
66	Interfacial magnetic coupling between Fe nanoparticles in FeAg granular alloys. *Nanotechnology*, **2012**, 23, 025705	3.4	22
65	Influence of the interactions on the magnetotransport properties of Fe-Ag granular thin films. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 7473-6	1.3	1
64	Study of surface effects on CoCu nanogranular alloys by ferromagnetic resonance. *Journal of Applied Physics*, **2012**, 111, 07C105	2.5	
63	Ni doped Fe3O4 magnetic nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 2652-60	1.3	38
62	FeNi-based magnetoimpedance multilayers: Tailoring of the softness by magnetic spacers. *Applied Physics Letters*, **2012**, 100, 162410	3.4	39
61	Poly(methyl methacrylate) coating of soft magnetic amorphous and crystalline Fe,Co-B nanoparticles by chemical reduction. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 1843-51	1.3	1
60	Crossover from superspin glass to superferromagnet in FexAg100 nanostructured thin films (20 50). *Physical Review B*, **2010**, 82,	3.3	59
59	Magnetic properties of colloidal cobalt nanoclusters. *Journal of Physics: Conference Series*, **2010**, 200, 072100	0.3	2

58	Magnetic disorder in nanostructuredFe7Au93films andFe14Au86powders. *Journal of Physics: Conference Series*, **2010**, 200, 072028	0.3	
57	Structure and Magnetic Properties of Thin Permalloy Films Near the Transcritical State. *IEEE Transactions on Magnetics*, **2010**, 46, 333-336	2	90
56	Microstructure and magnetic properties of colloidal cobalt nano-clusters. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 3565-3571	2.8	9
55	Influence of the interface on the electronic channel switching of a FeAg thin film on a Si substrate. *Applied Physics Letters*, **2009**, 95, 082103	3.4	3
54	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	2	
53	XAS and XMCD study of the influence of annealing on the atomic ordering and magnetism in an NiMnGa alloy. *Journal of Physics Condensed Matter*, **2009**, 21, 016002	1.8	17
52	Collective magnetic behaviors of FeAg nanostructured thin films above the percolation limit. *Journal of Applied Physics*, **2009**, 105, 07B513	2.5	3
51	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	2	3
50	Magnetic relaxation in melt-spun amorphous and nanocrystalline Mn-doped nanocrystalline alloy. *Journal of Magnetism and Magnetic Materials*, **2007**, 310, 2466-2468	2.8	3
49	The role of the interface on the magnetic behaviour of granular Fe50Ag50 film. *Journal of Magnetism and Magnetic Materials*, **2007**, 310, 2510-2512	2.8	1
48	Ferromagnetic resonance study of granular film. *Journal of Magnetism and Magnetic Materials*, **2007** , 316, e59-e62	2.8	1
47	Annealing influence on the atomic ordering and magnetic moment in a NiMnGa alloy. *Journal of Magnetism and Magnetic Materials*, **2007**, 316, e610-e613	2.8	19
46	Magnetic and magnetotransport behavior of granular FexAg100 thin films. *Journal of Non-Crystalline Solids*, **2007**, 353, 944-946	3.9	2
45	X-ray absorption analysis of core/shell magnetic (Fe,Co)B nanoparticles of amorphous and crystalline structure obtained by chemical reduction. *Journal of Non-Crystalline Solids*, **2007**, 353, 733-737	3.9	5
44	Magnetic and magnetotransport properties of Fe nanoparticles embedded in Ag matrix. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 1071-1074	2.8	5
43	Influence of the interface on the magnetic moment of Co clusters in CoCu granular alloys. *IEEE Transactions on Magnetics*, **2005**, 41, 3421-3423	2	1
42	-Interface effects on the magnetic moment of Co and Cu in CoCu granular alloys. *Physical Review B*, **2005**, 72,	3.3	21
41	Microstructure studies through the analysis of the hysteresis loop in granular alloys. *Physica B: Condensed Matter*, **2004**, 343, 364-368	2.8	2

40	Magnetotransport properties and local atomic order around Fe in Fe30Ag70 thin films. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, E1397-E1398	2.8	
39	Influence of the interface on the magnetic anisotropy of CoCu granular alloys. *Physica B: Condensed Matter*, **2004**, 354, 92-97	2.8	10
38	In situ observation of the structural changes induced by thermal annealing on melt-spun Co15Cu85 granular alloys. *Journal of Magnetism and Magnetic Materials*, **2003**, 254-255, 82-84	2.8	
37	Synthesis and characterisation of electrodeposited Cu90Co10 thin film. *Journal of Magnetism and Magnetic Materials*, **2003**, 254-255, 85-87	2.8	4
36	The properties of Co□u melt-spun ribbons and thin films: similarity and difference. *Journal of Magnetism and Magnetic Materials*, **2003**, 254-255, 115-117	2.8	2
35	Time-resolved X-ray diffraction experiments during annealing of Co15Cu85 granular alloy. *Journal of Magnetism and Magnetic Materials*, **2003**, 262, 92-96	2.8	1
34	Relationship between the nanostructure of Co15Cu85 melt-spun alloys and the AC-susceptibility behaviour. *Journal of Magnetism and Magnetic Materials*, **2003**, 262, 97-101	2.8	2
33	Structure and magnetic properties in CoCu granular alloys. *Nuclear Instruments & Methods in Physics Research B*, **2003**, 200, 215-219	1.2	3
32	The effect of the deposition parameters on the magnetic and magnetotransport properties of laser ablated Cu□o thin films. *Sensors and Actuators A: Physical*, **2003**, 106, 203-207	3.9	5
31	Microstructural and magnetic evolution upon annealing of giant magnetoresistance melt-spun Co-Cu granular alloys. *Physical Review B*, **2003**, 67,	3.3	33
30	Preparation and characterisation of Cu□o heterogeneous alloys by potentiostatic electrodeposition. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2002**, 335, 94-100	5.3	31
29	Specific Features of the Properties of Co□u Granular Media Caused by the Structure of the Material. *Russian Physics Journal*, **2002**, 45, 1181-1189	0.7	
28	Direct experimental evidence of an anomalous Co segregation in Co-Cu granular alloys and its influence on magnetoresistance. *Europhysics Letters*, **2002**, 59, 855-861	1.6	12
27	Correlation among the structural and magnetic properties of CoCu granular alloys. *Journal of Applied Physics*, **2002**, 91, 8596	2.5	5
26	X-ray magnetic circular dichroism in FeZrB amorphous alloys: the influence of the tensile stress. *Journal of Synchrotron Radiation*, **2001**, 8, 443-5	2.4	1
25	Observation of the segregation and the dissolution of the Co and the Cu in CoCu metastable alloys. *Journal of Synchrotron Radiation*, **2001**, 8, 883-5	2.4	2
24	Influence of the preparation method on the properties of Cu□o heterogeneous alloys. *Journal of Non-Crystalline Solids*, **2001**, 287, 26-30	3.9	6
23	Influence of metalloids on the XANES spectra of metallic glasses. *Journal of Non-Crystalline Solids*, **2001**, 287, 60-64	3.9	2

22	The local structure from two experimental atomic probes: EXAFS and Mössbauer spectroscopies. *Journal of Non-Crystalline Solids*, **2001**, 287, 75-80	3.9	1
21	Magnetization evolution during thermal treatments of CoCu metastable alloys. *Journal of Non-Crystalline Solids*, **2001**, 287, 282-285	3.9	
20	Nitrogen incorporation effects in Fe(001) thin films. *Journal of Applied Physics*, **2001**, 89, 6314-6319	2.5	7
19	Structural evolution of Co clusters in Co15Cu85 granular alloys by EXAFS spectroscopy. *Journal of Magnetism and Magnetic Materials*, **2000**, 221, 80-86	2.8	17
18	Comparative study of the structure and magnetic properties of Co-P and Fe-P amorphous alloys. *Physical Review B*, **2000**, 61, 6238-6245	3.3	13
17	Local structure and ferromagnetic character of Fe-B and Fe-P amorphous alloys. *Physical Review B*, **2000**, 62, 5746-5750	3.3	35
16	Differential anomalous scattering on Fe-Co-based metallic glasses. *Journal of Physics Condensed Matter*, **1999**, 11, 10199-10210	1.8	1
15	Magnetic study of electrodeposited Cu?Co heterogeneous alloys. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 53-55	2.8	1
14	Structure and magnetic properties of Fe?Co?P amorphous alloys. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 164-165	2.8	6
13	Different ferromagnetic character of Fe in FeB and FeP amorphous alloys. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 204-206	2.8	3
12	Influence of the short-range order on the magnetic properties of metallic glasses. *Journal of Physics Condensed Matter*, **1998**, 10, 3807-3822	1.8	12
11	Medium-range order as an intrinsic property of Co-rich amorphous alloys. *Europhysics Letters*, **1997**, 40, 43-48	1.6	11
10	Magnetic and transport properties of Fe - Zr - B - (Cu) amorphous alloys. *Journal of Physics Condensed Matter*, **1997**, 9, 5671-5685	1.8	28
9	Stress and annealing induced changes in the Curie temperature of amorphous and nanocrystalline FeZr and FeNb based alloys. *Journal of Magnetism and Magnetic Materials*, **1996**, 157-158, 203-204	2.8	9
8	Evidence of strong short-range order in (Fe0.2Co0.8)75SixB25-x amorphous alloys from EXAFS spectroscopy. *Physical Review B*, **1996**, 53, 620-628	3.3	20
7	Tensile stress dependence of the Curie temperature and hyperfine field in Fe-Zr-B-(Cu) amorphous alloys. *Physical Review B*, **1996**, 54, 3026-3029	3.3	44
6	Fe-57 Mössbauer study of the (FeCo)75SiB metallic alloy series. *Journal of Applied Physics*, **1995**, 77, 3338-3342	2.5	6
5	Correlation between structure and magnetic behavior of Fe-P amorphous alloys. *Physical Review B*, **1995**, 52, 12805-12812	3.3	25

4	. *IEEE Transactions on Magnetics*, **1994**, 30, 536-538	2	1
3	Temperature dependence of the Mössbauer spectra of amorphous and nanocrystallized Fe86Zr7Cu1B6. *Hyperfine Interactions*, **1994**, 94, 2199-2205	0.8	23
2	. *IEEE Transactions on Magnetics*, **1993**, 29, 2682-2684	2	29
1	Simultaneous observation of viscoelastic deformation and induced magnetic anisotropy in [Co1−x(FeNi)x]75Si15B10 metallic glasses. *Journal of Applied Physics*, **1987**, 62, 2579-2582	2.5	10