

# Mara Luisa Fernandez-Gubieda Ruiz

## List of Publications by Citations

**Source:**

<https://exaly.com/author-pdf/515189/maria-luisa-fernandez-gubieda-ruiz-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Magnetite biomineralization in <i>Magnetospirillum gryphiswaldense</i> : time-resolved magnetic and structural studies. <i>ACS Nano</i> , <b>2013</b> , 7, 3297-305	16.7	96
110	Electrochemical Na Extraction/Insertion of Na <sub>3</sub> V <sub>2</sub> O <sub>2</sub> x(PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> ·x. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4917-4925	9.6	96
109	Sodium Distribution and Reaction Mechanisms of a Na <sub>3</sub> V <sub>2</sub> O <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F Electrode during Use in a Sodium-Ion Battery. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 3391-3402	9.6	91
108	Structure and Magnetic Properties of Thin Permalloy Films Near the Transcritical State. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 333-336	2	90
107	Anisotropy effects in magnetic hyperthermia: A comparison between spherical and cubic exchange-coupled FeO/Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 17A337	2.5	83
106	Interplay between microstructure and magnetism in NiO nanoparticles: breakdown of the antiferromagnetic order. <i>Nanoscale</i> , <b>2014</b> , 6, 457-65	7.7	72
105	Optimal Parameters for Hyperthermia Treatment Using Biomineralized Magnetite Nanoparticles: Theoretical and Experimental Approach. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 24437-24448	3.8	71
104	Crossover from superspin glass to superferromagnet in FeAg <sub>100</sub> nanostructured thin films (20-80). <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	59
103	Unlocking the Potential of Magnetotactic Bacteria as Magnetic Hyperthermia Agents. <i>Small</i> , <b>2019</b> , 15, e1902626	11	49
102	Tensile stress dependence of the Curie temperature and hyperfine field in Fe-Zr-B-(Cu) amorphous alloys. <i>Physical Review B</i> , <b>1996</b> , 54, 3026-3029	3.3	44
101	FeNi-based magnetoimpedance multilayers: Tailoring of the softness by magnetic spacers. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 162410	3.4	39
100	Ni doped Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 2652-60	1.3	38
99	Local structure and ferromagnetic character of Fe-B and Fe-P amorphous alloys. <i>Physical Review B</i> , <b>2000</b> , 62, 5746-5750	3.3	35
98	Configuration of the magnetosome chain: a natural magnetic nanoarchitecture. <i>Nanoscale</i> , <b>2018</b> , 10, 7407-7419	7.7	34
97	Microstructural and magnetic evolution upon annealing of giant magnetoresistance melt-spun Co-Cu granular alloys. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	33
96	Preparation and characterisation of CuCo heterogeneous alloys by potentiostatic electrodeposition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 335, 94-100	5.3	31
95	. <i>IEEE Transactions on Magnetics</i> , <b>1993</b> , 29, 2682-2684	2	29

94	Magnetic and transport properties of Fe - Zr - B - (Cu) amorphous alloys. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 5671-5685	1.8	28
93	Correlation between structure and magnetic behavior of Fe-P amorphous alloys. <i>Physical Review B</i> , <b>1995</b> , 52, 12805-12812	3.3	25
92	Enhanced magnetic anisotropy and heating efficiency in multi-functional manganese ferrite/graphene oxide nanostructures. <i>Nanotechnology</i> , <b>2016</b> , 27, 155707	3.4	25
91	Temperature dependence of the Mössbauer spectra of amorphous and nanocrystallized Fe <sub>86</sub> Zr <sub>7</sub> Cu <sub>1</sub> B <sub>6</sub> . <i>Hyperfine Interactions</i> , <b>1994</b> , 94, 2199-2205	0.8	23
90	Interfacial magnetic coupling between Fe nanoparticles in FeAg granular alloys. <i>Nanotechnology</i> , <b>2012</b> , 23, 025705	3.4	22
89	Enhanced mass sensitivity in novel magnetoelastic resonators geometries for advanced detection systems. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 296, 126612	8.5	21
88	Magnetization reversal in circular vortex dots of small radius. <i>Nanoscale</i> , <b>2017</b> , 9, 11269-11278	7.7	21
87	Size-induced superantiferromagnetism with reentrant spin-glass behavior in metallic nanoparticles of TbCu <sub>2</sub> . <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	21
86	-Interface effects on the magnetic moment of Co and Cu in CoCu granular alloys. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	21
85	On the mineral core of ferritin-like proteins: structural and magnetic characterization. <i>Nanoscale</i> , <b>2016</b> , 8, 1088-99	7.7	20
84	Evidence of strong short-range order in (Fe <sub>0.2</sub> Co <sub>0.8</sub> ) <sub>75</sub> Si <sub>x</sub> B <sub>25-x</sub> amorphous alloys from EXAFS spectroscopy. <i>Physical Review B</i> , <b>1996</b> , 53, 620-628	3.3	20
83	Magnetotactic bacteria for cancer therapy. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 070902	2.5	20
82	Mn-Doping level dependence on the magnetic response of MnFeO ferrite nanoparticles. <i>Dalton Transactions</i> , <b>2019</b> , 48, 11480-11491	4.3	19
81	Annealing influence on the atomic ordering and magnetic moment in a NiMnGa alloy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 316, e610-e613	2.8	19
80	High-magnetic field characterization of magnetocaloric effect in FeZrB(Cu) amorphous ribbons. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 17A710	2.5	18
79	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> , <b>2017</b> , 1861, 1507-1514	4.1514	17
78	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> , <b>2009</b> , 21, 016002	1.8	17
77	Structural evolution of Co clusters in Co <sub>15</sub> Cu <sub>85</sub> granular alloys by EXAFS spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2000</b> , 221, 80-86	2.8	17

76	Assemblies of magnetite nanoparticles extracted from magnetotactic bacteria: A magnetic study. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 063109	3.4	15
75	Magnetic Study of Co-Doped Magnetosome Chains. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 7541-7550	3.8	14
74	Magnetostatic interactions in various magnetosome clusters. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 023907	3.7	14
73	Highly Reproducible Hyperthermia Response in Water, Agar, and Cellular Environment by Discretely PEGylated Magnetite Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 27917-27929	9.5	13
72	Comparative study of the structure and magnetic properties of Co-P and Fe-P amorphous alloys. <i>Physical Review B</i> , <b>2000</b> , 61, 6238-6245	3.3	13
71	Direct experimental evidence of an anomalous Co segregation in Co-Cu granular alloys and its influence on magnetoresistance. <i>Europhysics Letters</i> , <b>2002</b> , 59, 855-861	1.6	12
70	Influence of the short-range order on the magnetic properties of metallic glasses. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, 3807-3822	1.8	12
69	Properties of Dense Assemblies of Magnetic Nanoparticles Promising for Application in Biomedicine. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2013</b> , 26, 1079-1083	1.5	11
68	Medium-range order as an intrinsic property of Co-rich amorphous alloys. <i>Europhysics Letters</i> , <b>1997</b> , 40, 43-48	1.6	11
67	Disk-shaped magnetic particles for cancer therapy. <i>Applied Physics Reviews</i> , <b>2020</b> , 7, 011306	17.3	10
66	Magnetic disorder in diluted $\text{Fe}_x\text{M}_{100-x}$ granular thin films (M=Au, Ag, Cu; $x \ll 1$ ). <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 276001	1.8	10
65	Magnetic phase diagram of superantiferromagnetic TbCu <sub>2</sub> nanoparticles. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 496002	1.8	10
64	Influence of the interface on the magnetic anisotropy of CoCu granular alloys. <i>Physica B: Condensed Matter</i> , <b>2004</b> , 354, 92-97	2.8	10
63	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> , <b>1987</b> , 62, 2579-2582	2.5	10
62	Magnetosomes could be protective shields against metal stress in magnetotactic bacteria. <i>Scientific Reports</i> , <b>2020</b> , 10, 11430	4.9	10
61	Breakdown of magnetism in sub-nanometric Ni clusters embedded in Ag. <i>Nanotechnology</i> , <b>2015</b> , 26, 455303	3.4	9
60	Elucidating the role of shape anisotropy in faceted magnetic nanoparticles using biogenic magnetosomes as a model. <i>Nanoscale</i> , <b>2020</b> , 12, 16081-16090	7.7	9
59	Magnetic nanoscopic correlations in the crossover between a superspin glass and a superferromagnet. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 143902	2.5	9

58	Microstructure and magnetic properties of colloidal cobalt nano-clusters. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2010</b> , 322, 3565-3571	2.8	9
57	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> , <b>1996</b> , 157-158, 203-204	2.8	9
56	Probing the stability and magnetic properties of magnetosome chains in freeze-dried magnetotactic bacteria. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 1115-1121	5.1	8
55	X-Ray Absorption Fine Structure Spectroscopy in Fe Oxides and Oxyhydroxides <b>2016</b> , 397-422		8
54	Nitrogen incorporation effects in Fe(001) thin films. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 6314-6319	2.5	7
53	Neutron and synchrotron studies of structure and magnetism of Shape Memory Alloys. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 663, 012014	0.3	6
52	Influence of the preparation method on the properties of Cu <sub>100</sub> heterogeneous alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 287, 26-30	3.9	6
51	Structure and magnetic properties of Fe <sub>70</sub> Co <sub>30</sub> P amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 196-197, 164-165	2.8	6
50	Fe-57 Mössbauer study of the (FeCo) <sub>75</sub> SiB metallic alloy series. <i>Journal of Applied Physics</i> , <b>1995</b> , 77, 3338-3342	3.4	6
49	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> , <b>2021</b> , 33, 3139-3154	9.6	6
48	Studying nanoparticles' 3D shape by aspect maps: Determination of the morphology of bacterial magnetic nanoparticles. <i>Faraday Discussions</i> , <b>2016</b> , 191, 177-188	3.6	5
47	X-ray absorption analysis of core/shell magnetic (Fe,Co) <sub>B</sub> nanoparticles of amorphous and crystalline structure obtained by chemical reduction. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 733-737	3.9	5
46	The effect of the deposition parameters on the magnetic and magnetotransport properties of laser ablated Cu <sub>100</sub> thin films. <i>Sensors and Actuators A: Physical</i> , <b>2003</b> , 106, 203-207	3.9	5
45	Magnetic and magnetotransport properties of Fe nanoparticles embedded in Ag matrix. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 290-291, 1071-1074	2.8	5
44	Correlation among the structural and magnetic properties of CoCu granular alloys. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 8596	2.5	5
43	Surfactant-assisted production of TbCu <sub>2</sub> nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2017</b> , 19, 1	2.3	4
42	Synthesis and characterisation of electrodeposited Cu <sub>90</sub> Co <sub>10</sub> thin film. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 254-255, 85-87	2.8	4
41	Magnetocaloric properties of rapidly solidified Dy <sub>3</sub> Co alloy ribbons. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 17A706	2.5	3

40	Investigating the Size and Microstrain Influence in the Magnetic Order/Disorder State of GdCu Nanoparticles. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	3
39	Effects of thermal annealing on the magnetic interactions in nanogranular FeAg thin films. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S271-S276	5.7	3
38	Influence of the interface on the electronic channel switching of a FeAg thin film on a Si substrate. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 082103	3.4	3
37	Collective magnetic behaviors of FeAg nanostructured thin films above the percolation limit. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 07B513	2.5	3
36	Influence of the Si Substrate on the Transport and Magnetotransport Properties of Nanostructured Fe-Ag Thin Films. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 2784-2787	2	3
35	Magnetic relaxation in melt-spun amorphous and nanocrystalline Mn-doped nanocrystalline alloy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 2466-2468	2.8	3
34	Structure and magnetic properties in CoCu granular alloys. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 200, 215-219	1.2	3
33	Different ferromagnetic character of Fe in FeB and FeP amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 196-197, 204-206	2.8	3
32	Controlled Magnetic Anisotropy in Single Domain Mn-doped Biosynthesized Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 22827-22838	3.8	3
31	Nanoflowers Versus Magnetosomes: Comparison Between Two Promising Candidates for Magnetic Hyperthermia Therapy. <i>IEEE Access</i> , <b>2021</b> , 9, 99552-99561	3.5	3
30	Magnetic Hyperthermia: Unlocking the Potential of Magnetotactic Bacteria as Magnetic Hyperthermia Agents (Small 41/2019). <i>Small</i> , <b>2019</b> , 15, 1970222	11	2
29	On the exchange bias effect in NiO nanoparticles with a core(antiferromagnetic)/shell (spin glass) morphology. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 663, 012001	0.3	2
28	Search for Magnetite Nanoparticles in the Rats Brain. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-3	2	2
27	Magnetic properties of colloidal cobalt nanoclusters. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 072100	0.3	2
26	Magnetic and magnetotransport behavior of granular FeAg <sub>100</sub> thin films. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 944-946	3.9	2
25	Microstructure studies through the analysis of the hysteresis loop in granular alloys. <i>Physica B: Condensed Matter</i> , <b>2004</b> , 343, 364-368	2.8	2
24	The properties of CoCu melt-spun ribbons and thin films: similarity and difference. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 254-255, 115-117	2.8	2
23	Relationship between the nanostructure of Co <sub>15</sub> Cu <sub>85</sub> melt-spun alloys and the AC-susceptibility behaviour. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 262, 97-101	2.8	2

22	Observation of the segregation and the dissolution of the Co and the Cu in CoCu metastable alloys. <i>Journal of Synchrotron Radiation</i> , <b>2001</b> , 8, 883-5	2.4	2
21	Influence of metalloids on the XANES spectra of metallic glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 287, 60-64	3.9	2
20	Study of the influence of sensor permeability in the detection of a single magnetotactic bacterium. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 500, 166346	2.8	2
19	Influence of the interactions on the magnetotransport properties of Fe-Ag granular thin films. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 7473-6	1.3	1
18	Poly(methyl methacrylate) coating of soft magnetic amorphous and crystalline Fe <sub>70</sub> Co <sub>30</sub> -B nanoparticles by chemical reduction. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 1843-51	1.3	1
17	The role of the interface on the magnetic behaviour of granular Fe <sub>50</sub> Ag <sub>50</sub> film. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 2510-2512	2.8	1
16	Ferromagnetic resonance study of granular film. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 316, e59-e62	2.8	1
15	Time-resolved X-ray diffraction experiments during annealing of Co <sub>15</sub> Cu <sub>85</sub> granular alloy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 262, 92-96	2.8	1
14	Influence of the interface on the magnetic moment of Co clusters in CoCu granular alloys. <i>IEEE Transactions on Magnetism</i> , <b>2005</b> , 41, 3421-3423	2	1
13	X-ray magnetic circular dichroism in FeZrB amorphous alloys: the influence of the tensile stress. <i>Journal of Synchrotron Radiation</i> , <b>2001</b> , 8, 443-5	2.4	1
12	The local structure from two experimental atomic probes: EXAFS and Mössbauer spectroscopies. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 287, 75-80	3.9	1
11	Differential anomalous scattering on Fe-Co-based metallic glasses. <i>Journal of Physics Condensed Matter</i> , <b>1999</b> , 11, 10199-10210	1.8	1
10	Magnetic study of electrodeposited Cu <sub>70</sub> Co <sub>30</sub> heterogeneous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 196-197, 53-55	2.8	1
9	. <i>IEEE Transactions on Magnetism</i> , <b>1994</b> , 30, 536-538	2	1
8	A Milestone in the Chemical Synthesis of FeO Nanoparticles: Unreported Bulklike Properties Lead to a Remarkable Magnetic Hyperthermia. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 8693-8704	9.6	1
7	Study of surface effects on CoCu nanogranular alloys by ferromagnetic resonance. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07C105	2.5	
6	Correction to [Influence of the Si Substrate on the Transport and Magnetotransport Properties of Nanostructured Fe-Ag Thin Films][Nov 09 2784-2787]. <i>IEEE Transactions on Magnetism</i> , <b>2009</b> , 45, 3365-3365	2.5	
5	Magnetic disorder in nanostructured Fe <sub>70</sub> Au <sub>30</sub> films and Fe <sub>14</sub> Au <sub>86</sub> powders. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 072028	0.3	

- 4 Magnetotransport properties and local atomic order around Fe in Fe<sub>30</sub>Ag<sub>70</sub> thin films. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, E1397-E1398 2.8
- 3 Specific Features of the Properties of CoCu Granular Media Caused by the Structure of the Material. *Russian Physics Journal*, **2002**, 45, 1181-1189 0.7
- 2 In situ observation of the structural changes induced by thermal annealing on melt-spun Co<sub>15</sub>Cu<sub>85</sub> granular alloys. *Journal of Magnetism and Magnetic Materials*, **2003**, 254-255, 82-84 2.8
- 1 Magnetization evolution during thermal treatments of CoCu metastable alloys. *Journal of Non-Crystalline Solids*, **2001**, 287, 282-285 3.9