

Amilcar Labarta

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219
papers

6,836
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h-index

76
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228
ext. papers

7,155
ext. citations

3.3
avg, IF

5.65
L-index

#	Paper	IF	Citations
219	Finite-size effects in fine particles: magnetic and transport properties. <i>Journal Physics D: Applied Physics</i> , 2002 , 35, R15-R42	3	976
218	Nanoparticle-mediated local and remote manipulation of protein aggregation. <i>Nano Letters</i> , 2006 , 6, 110-5	11.5	256
217	Surfactant effects in magnetite nanoparticles of controlled size. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e756-e759	2.8	250
216	Exchange Bias Phenomenology and Models of Core/Shell Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 2761-2780	1.3	236
215	Tuning the Size, the Shape, and the Magnetic Properties of Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 390-396	3.8	218
214	Finite-size and surface effects in maghemite nanoparticles: Monte Carlo simulations. <i>Physical Review B</i> , 2001 , 63,	3.3	214
213	Magnetic frustration and lattice dimensionality in SrCr ₈ Ga ₄ O ₁₉ . <i>Solid State Communications</i> , 1988 , 65, 189-192	1.6	183
212	Multiscale origin of the magnetocaloric effect in Ni-Mn-Ga shape-memory alloys. <i>Physical Review B</i> , 2003 , 68,	3.3	155
211	Controlled synthesis of iron oxide nanoparticles over a wide size range. <i>Langmuir</i> , 2010 , 26, 5843-7	4	131
210	Surfactant organic molecules restore magnetism in metal-oxide nanoparticle surfaces. <i>Nano Letters</i> , 2012 , 12, 2499-503	11.5	116
209	Magnetic field induced entropy change and magnetoelasticity in Ni-Mn-Ga alloys. <i>Physical Review B</i> , 2002 , 66,	3.3	116
208	Magnetic relaxation in small-particle systems: ln(t/ tau 0) scaling. <i>Physical Review B</i> , 1993 , 48, 10240-10246	3.9	116
207	Magnetization and Mössbauer studies of ultrafine Fe-C particles. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 124, 269-276	2.8	104
206	Microscopic origin of exchange bias in core/shell nanoparticles. <i>Physical Review B</i> , 2005 , 72,	3.3	101
205	Magnetic domains and surface effects in hollow maghemite nanoparticles. <i>Physical Review B</i> , 2009 , 79,	3.3	100
204	Premartensitic and martensitic phase transitions in ferromagnetic Ni ₂ MnGa. <i>Physical Review B</i> , 1999 , 60, 7085-7090	3.3	93
203	Magnetic nanoparticles with bulklike properties (invited). <i>Journal of Applied Physics</i> , 2011 , 109, 07B524	2.5	92

202	Heating rate influence on the synthesis of iron oxide nanoparticles: the case of decanoic acid. <i>Chemical Communications</i> , 2010 , 46, 6108-10	5.8	83
201	Stiffness and Thickness of Boron-Nitride Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3774-3780	1.3	80
200	Role of surface disorder on the magnetic properties and hysteresis of nanoparticles. <i>Physica B: Condensed Matter</i> , 2004 , 343, 286-292	2.8	80
199	Magnetic dilution in the strongly frustrated kagome antiferromagnet SrGa _{12-x} Cr _x O ₁₉ . <i>Physical Review B</i> , 1992 , 46, 10786-10792	3.3	74
198	Erasing the glassy state in magnetic fine particles. <i>Physical Review B</i> , 1999 , 59, 13584-13587	3.3	71
197	Spin glass behaviour in an antiferromagnetic non-frustrated lattice: Sr ₂ FeNbO ₆ perovskite. <i>Journal of Physics C: Solid State Physics</i> , 1985 , 18, L401-L405		71
196	Entropy change and magnetocaloric effect in Gd ₅ (SixGe _{1-x}) ₄ . <i>Physical Review B</i> , 2002 , 66,	3.3	70
195	Surface anisotropy broadening of the energy barrier distribution in magnetic nanoparticles. <i>Nanotechnology</i> , 2008 , 19, 475704	3.4	68
194	Scaling of the entropy change at the magnetoelastic transition in Gd ₅ (SixGe _{1-x}) ₄ . <i>Physical Review B</i> , 2002 , 66,	3.3	65
193	Interaction effects and energy barrier distribution on the magnetic relaxation of nanocrystalline hexagonal ferrites. <i>Physical Review B</i> , 1997 , 55, 6440-6445	3.3	63
192	Nature and entropy content of the ordering transitions in RCo ₂ . <i>Physical Review B</i> , 2006 , 73,	3.3	62
191	A high-sensitivity differential scanning calorimeter with magnetic field for magnetostructural transitions. <i>Review of Scientific Instruments</i> , 2003 , 74, 4768-4771	1.7	59
190	Liver and brain imaging through dimercaptosuccinic acid-coated iron oxide nanoparticles. <i>Nanomedicine</i> , 2010 , 5, 397-408	5.6	57
189	Magnetic relaxation in terms of microscopic energy barriers in a model of dipolar interacting nanoparticles. <i>Physical Review B</i> , 2004 , 70,	3.3	57
188	Magnetic structure of Li ₂ CuO ₂ : From ab initio calculations to macroscopic simulations. <i>Physical Review B</i> , 2002 , 66,	3.3	56
187	Tunneling magnetoresistance in Co ₂ ZrO ₂ granular thin films. <i>Physical Review B</i> , 2006 , 73,	3.3	55
186	Stationary nonequilibrium states in the Ising model with locally competing temperatures. <i>Journal of Statistical Physics</i> , 1987 , 49, 551-568	1.5	54
185	Magnetic transition in highly frustrated SrCr ₈ Ga ₄ O ₁₉ : The archetypal kagome-acute system. <i>Physical Review B</i> , 1994 , 50, 15779-15786	3.3	51

184	Direct observation of the magnetic-field-induced entropy change in Gd ₅ (SixGe _{1-x}) ₄ giant magnetocaloric alloys. <i>Applied Physics Letters</i> , 2005 , 86, 262504	3-4	49
183	Correlated spin glass generated by structural disorder in the amorphous Dy ₆ Fe ₇₄ B ₂₀ alloy. <i>Physical Review B</i> , 1991 , 44, 7698-7700	3-3	45
182	Effect of a magnetic field on the magnetostructural phase transition in Gd ₅ (SixGe _{1-x}) ₄ . <i>Physical Review B</i> , 2004 , 69,	3-3	44
181	NiMnTa thin films produced by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2002 , 91, 8234	2-5	42
180	Controlling exchange bias in Co-CoOx nanoparticles by oxygen content. <i>Nanotechnology</i> , 2009 , 20, 175702	3-4	40
179	Exchange interactions in BaFe ₁₂ O ₁₉ . <i>Applied Physics A: Solids and Surfaces</i> , 1986 , 39, 221-225		39
178	Nanostructural origin of the spin and orbital contribution to the magnetic moment in Fe ₃ O ₄ magnetite nanoparticles. <i>Applied Physics Letters</i> , 2009 , 94, 093108	3-4	38
177	CoFeCu granular alloys: From noninteracting particles to magnetic percolation. <i>Journal of Applied Physics</i> , 1999 , 85, 7328-7335	2-5	38
176	Phenomenological study of the amorphous Fe ₈₀ B ₂₀ ferromagnet with small random anisotropy. <i>Physical Review B</i> , 1990 , 42, 898-905	3-3	37
175	The effect of oleic acid on the synthesis of Fe(3-x)O ₄ nanoparticles over a wide size range. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 27373-9	3-6	35
174	Gold nanoparticles for selective and remote heating of β -amyloid protein aggregates. <i>Materials Science and Engineering C</i> , 2007 , 27, 1236-1240	8-3	34
173	Particle size and cooling field dependence of exchange bias in core/shell magnetic nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 134010	3	33
172	Remanence breakdown in granular alloys at magnetic percolation. <i>Journal of Applied Physics</i> , 2000 , 88, 1576-1582	2-5	33
171	Critical behavior of Ising models with static site dilution. <i>Physical Review B</i> , 1986 , 34, 347-349	3-3	33
170	Modelling exchange bias in core/shell nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 406238		32
169	Energy barrier distributions in magnetic systems from the Tln(t/D) scaling. <i>Zeitschrift Für Physik B-Condensed Matter</i> , 1996 , 100, 173-178		30
168	Bridgman growth and enhanced critical currents in textured YBa ₂ Cu ₃ O ₇ /Y ₂ BaCuO ₅ composites. <i>Journal of Alloys and Compounds</i> , 1993 , 195, 11-14	5-7	30
167	Mixed bridged, dinuclear copper(II) complexes with dinucleating, pyrazole derived ligands. <i>Inorganica Chimica Acta</i> , 1993 , 208, 167-171	2-7	29

166	Cation distribution and random spin canting in LaZnFe ₁₁ O ₁₉ . <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 6605-6621		29
165	Monte Carlo simulation study of exchange biased hysteresis loops in nanoparticles. <i>Physica B: Condensed Matter</i> , 2006 , 372, 247-250	2.8	28
164	Normalization factors for magnetic relaxation of small-particle systems in a nonzero magnetic field. <i>Physical Review B</i> , 1997 , 55, 8940-8944	3.3	26
163	Electrodeposited cobalt+copper thin films on ITO substrata. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 517, 63-68	4.1	26
162	Universality of the electrical transport in granular metals. <i>Scientific Reports</i> , 2016 , 6, 29676	4.9	25
161	The effect of the microstructure on the magnetic interactions in CoFe ₃ AgCu granular films: From demagnetizing to magnetizing interactions. <i>Applied Physics Letters</i> , 1997 , 70, 132-134	3.4	25
160	Giant heat dissipation at the low-temperature reversible-irreversible transition in Gd ₅ Ge ₄ . <i>Physical Review B</i> , 2005 , 72,	3.3	25
159	Coexistence of short-range ferromagnetic and antiferromagnetic correlations in Ge-rich Gd ₅ (SixGe _{1-x}) ₄ alloys. <i>Journal Physics D: Applied Physics</i> , 2005 , 38, 3343-3347	3	25
158	Quantification of Dipolar Interactions in Fe ₃ O ₄ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24142-24148	3.8	24
157	Shifted loops and coercivity from field-imprinted high-energy barriers in ferritin and ferrihydrite nanoparticles. <i>Physical Review B</i> , 2011 , 84,	3.3	24
156	Interface effects in the magneto-optical properties of Co nanoparticles in dielectric matrix. <i>Applied Physics Letters</i> , 2007 , 90, 182506	3.4	24
155	Synthesis and characterization of stabilized subnanometric cobalt metal particles. <i>Journal of the American Chemical Society</i> , 2005 , 127, 18026-30	16.4	24
154	Influence of surface anisotropy on the hysteresis of magnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 738-741	2.8	24
153	Martensitic transition and magnetoresistance in a Cu-Al-Mn shape-memory alloy: Influence of ageing. <i>Physical Review B</i> , 2002 , 66,	3.3	24
152	Characterisation of cobalt/copper multilayers obtained by electrodeposition. <i>Surface and Coatings Technology</i> , 2002 , 153, 261-266	4.4	24
151	Electronic structure determination of iron(II) phthalocyanine via magnetic susceptibility and Mössbauer measurements. <i>Journal of Chemical Physics</i> , 1984 , 80, 444-448	3.9	24
150	Tuning exchange bias in Ni/Fe ₂ heterostructures using antidot arrays. <i>Applied Physics Letters</i> , 2009 , 95, 152507	3.4	23
149	Exchange bias and asymmetric hysteresis loops from a microscopic model of core/shell nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, 140-142	2.8	23

148	Direct imaging of the magnetic polarity and reversal mechanism in individual Fe(3-x)O ₄ nanoparticles. <i>Nanoscale</i> , 2015 , 7, 8110-4	7.7	21
147	Dynamics of the first-order magnetostructural transition in Gd ₅ (Si _x Ge _{1-x}) ₄ . <i>European Physical Journal B</i> , 2004 , 40, 427-431	1.2	21
146	Antiferromagnetic/ferromagnetic nanostructures for multidigit storage units. <i>Applied Physics Letters</i> , 2014 , 104, 032401	3.4	20
145	Acoustic emission across the magnetostructural transition of the giant magnetocaloric Gd ₅ Si ₂ Ge ₂ . <i>Physical Review B</i> , 2006 , 73,	3.3	20
144	Competing tunneling and capacitive paths in Co ₂ FeO ₂ granular thin films. <i>Physical Review B</i> , 2003 , 67,	3.3	20
143	Reduction of iron by decarboxylation in the formation of magnetite nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 19485-9	3.6	19
142	scaling in small-particle systems: low-temperature behaviour. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 399-400	2.8	19
141	Aggregation state and magnetic properties of magnetite nanoparticles controlled by an optimized silica coating. <i>Journal of Applied Physics</i> , 2017 , 121, 044304	2.5	18
140	Superparamagnetic versus blocked states in aggregates of Fe(3-x)O _n nanoparticles studied by MFM. <i>Nanoscale</i> , 2015 , 7, 17764-70	7.7	18
139	Particle growth mechanisms in Ag-ZrO ₂ and Au-ZrO ₂ granular films obtained by pulsed laser deposition. <i>Nanotechnology</i> , 2006 , 17, 4106-11	3.4	18
138	Magnetic field scaling of relaxation curves in small particle systems. <i>Journal of Applied Physics</i> , 2002 , 91, 4409-4417	2.5	18
137	The nature of magnetic interactions in CoFe-Ag(Cu) granular thin films. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 609-613	3	18
136	Magnetotransport properties of NiFeAg granular alloys: Origin of the thermal behavior. <i>Journal of Applied Physics</i> , 1997 , 82, 677-687	2.5	17
135	Macromolecular polyradicals with cyclic triphosphazene as a core. Spectral and electrochemical properties. <i>Journal of Organic Chemistry</i> , 2004 , 69, 99-104	4.2	17
134	Magnetic relaxation of a one-dimensional model for small particle systems with dipolar interaction: Monte Carlo simulation. <i>Journal of Applied Physics</i> , 1996 , 80, 5192-5199	2.5	17
133	Magnetic properties of Fe/Cu multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 93, 425-4288		17
132	Magnetic study of spin freezing in the spin glass BaCo ₆ Ti ₆ O ₁₉ : Static and dynamic analysis. <i>Physical Review B</i> , 1992 , 46, 8994-9001	3.3	17
131	Glassy behavior in magnetic fine particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 221, 26-31.8		16

130	Electrochemical behaviour and physical properties of Cu/Co multilayers. <i>Electrochimica Acta</i> , 2003 , 48, 1005-1013	6.7	15
129	Experimental and theoretical characterization of the high-affinity cation-binding site of the purple membrane. <i>Biophysical Journal</i> , 1998 , 75, 777-84	2.9	15
128	Change in entropy at a first-order magnetoelastic phase transition: Case study of Gd ₅ (SixGe _{1-x}) ₄ giant magnetocaloric alloys. <i>Journal of Applied Physics</i> , 2003 , 93, 8313-8315	2.5	15
127	Tuning the magnetic properties of Co-ferrite nanoparticles through the 1,2-hexadecanediol concentration in the reaction mixture. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13143-9	3.6	14
126	Size mediated control of the optical and magneto-optical properties of Co nanoparticles in ZrO ₂ . <i>Journal of Applied Physics</i> , 2006 , 100, 074320	2.5	14
125	Electron-spin resonance in the spin-glass-like system Fe _{1-x} Ga _x SbO ₄ . <i>Physical Review B</i> , 1991 , 44, 4455-4460	3.9	14
124	Annealing of Electroplated Co-Cu Films to Induce Magnetoresistance. <i>Journal of the Electrochemical Society</i> , 2004 , 151, C731	3.9	13
123	Evidence of domain wall scattering in thin films of granular CoFe-AgCu. <i>European Physical Journal B</i> , 2000 , 17, 43-50	1.2	13
122	Spin glass transition in BaCo ₆ Ti ₆ O ₁₉ . <i>Journal of Applied Physics</i> , 1991 , 70, 6172-6174	2.5	13
121	Magnetic properties of Ba ₂ SmCu ₃ O _{9-x} high T _c superconductor. <i>Solid State Communications</i> , 1987 , 64, 707-710	1.6	13
120	Griffiths-like phase and magnetic correlations at high fields in Gd ₅ Ge ₄ . <i>Physical Review B</i> , 2011 , 83,	3.3	12
119	From Finite Size and Surface Effects to Glassy Behaviour in Ferrimagnetic Nanoparticles 2005 , 105-140		12
118	Magnetic microstructures from magnetic force microscopy and Monte Carlo simulation in CoFe-Ag-Cu granular films. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 912-914	2	12
117	Noncritical behavior and remanent magnetization in magnetically frustrated FeSbO ₄ . <i>Physical Review B</i> , 1991 , 44, 691-698	3.3	12
116	Spin glass transition in iron antimonate: The inducement by cationic ordering of localized magnetic order in a mixed metal oxide with a superlattice. <i>Journal of Solid State Chemistry</i> , 1987 , 71, 582-586	3.3	12
115	Equivalent circuit modeling of the ac response of Pd-ZrO ₂ granular metal thin films using impedance spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 335306	3	11
114	Shape and surface anisotropy effects on the hysteresis of ferrimagnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 685-686	2.8	11
113	Magnetoelasticity in the Heusler Ni ₂ MnGa alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 637-638	2.8	11

112	Short-range antiferromagnetic correlations in spin-glass-like iron antimonate of composition FeSbO ₄ . <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 6801-6806	1.8	11
111	Magnetic studies of Fe-Y compositionally modulated thin films. <i>Journal of Applied Physics</i> , 1990 , 67, 5652-5654	11	11
110	SiO ₂ coating effects in the magnetic anisotropy of Fe ₃ -xO ₄ nanoparticles suitable for bio-applications. <i>Nanotechnology</i> , 2013 , 24, 155705	3.4	10
109	From demagnetizing to magnetizing interactions in CoFeAgCu granular films. <i>Journal of Applied Physics</i> , 1997 , 81, 4593-4595	2.5	10
108	Magnetic properties of dense graphitic filaments formed via thermal decomposition of mesitylene in an applied electric field. <i>Carbon</i> , 2006 , 44, 2864-2867	10.4	10
107	Nucleation phenomenon in nanoparticle self-assemblies. <i>International Journal of Nanotechnology</i> , 2005 , 2, 62	1.5	10
106	Inert Carbon Free Radicals. 11. Synthesis and Magnetic Behavior of (4,4'-Dicarboxytridecachlorotriphenyl)methyl Radical and Related Results. <i>Journal of Organic Chemistry</i> , 1994 , 59, 2604-2607	4.2	10
105	Quenching of ferrimagneticlike ordering in SrCr ₈ Fe ₄ O ₁₉ hexagonal ferrite. <i>Journal of Applied Physics</i> , 1988 , 63, 4091-4093	2.5	10
104	Magnetic nanoparticles: From the nanostructure to the physical properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 543, 168594	2.8	10
103	Inducing glassy magnetism in Co-ferrite nanoparticles through crystalline nanostructure. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4522-4529	7.1	9
102	Nanoparticles with tunable shape and composition fabricated by nanoimprint lithography. <i>Nanotechnology</i> , 2015 , 26, 445302	3.4	9
101	Magnetic properties of dense carbon nanospheres prepared by chemical vapor deposition. <i>Chemical Physics Letters</i> , 2007 , 447, 295-299	2.5	9
100	Quantitative x-ray photoelectron spectroscopy study of Al/AlO _x bilayers. <i>Journal of Applied Physics</i> , 2002 , 91, 10163	2.5	9
99	Magnetic history dependence of metastable states in thin films with dipolar interactions. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 221, 149-157	2.8	9
98	Monte Carlo simulation of the magnetic ordering in thin films with perpendicular anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 819-820	2.8	9
97	Magnetic behavior of the BaFe ₄ -2xSn ₂ +xCoxO ₁₁ system: From cluster glass to kagome-acute phase. <i>Physical Review B</i> , 1993 , 48, 16440-16448	3.3	9
96	Spectroscopic and thermogravimetric studies of Co(II)-nucleotides complexes. <i>Journal of Inorganic Biochemistry</i> , 1990 , 39, 173-186	4.2	9
95	The first isolated carbon tetraradical with a pair of triplets. <i>Journal of the American Chemical Society</i> , 1991 , 113, 8281-8284	16.4	9

94	Manipulation of competing ferromagnetic and antiferromagnetic domains in exchange-biased nanostructures. <i>Physical Review B</i> , 2015 , 92,	3.3	8
93	Modification of magnetic properties of polyethyleneterephthalate by iron ion implantation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 257, 589-592	1.2	8
92	Magnetic properties of Co nanoparticles in zirconia matrix. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, 103-105	2.8	8
91	Entropy change at the magnetostructural transition in. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 301, 378-382	2.8	8
90	Reply to Comment on Nature and entropy content of the ordering transitions in RCo ₂ . <i>Physical Review B</i> , 2007 , 75,	3.3	8
89	Differential scanning calorimetry experiments in RCo ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 682-685	2.8	8
88	Effects of the magnetic field on the relaxation of small particle systems. <i>Computational Materials Science</i> , 2002 , 25, 577-583	3.2	8
87	Trichloro-2,6-pyridylene, a Good Ferromagnetic Coupling Unit between Two Persistent Carbon Radical Centers. <i>Journal of Organic Chemistry</i> , 1994 , 59, 4107-4113	4.2	8
86	Meissner effect and critical fields in an inhomogeneous Ba ₂ HoCu ₃ O _{7-x} high-T _c superconductor. <i>Physical Review B</i> , 1988 , 38, 2455-2459	3.3	8
85	Magnetic properties of amorphous Fe-Si compositionally modulated thin films. <i>Journal of Applied Physics</i> , 1988 , 63, 3206-3208	2.5	8
84	Probing the variability in oxidation states of magnetite nanoparticles by single-particle spectroscopy. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 875-882	7.1	7
83	The fabrication of ordered arrays of exchange biased Ni/FeF ₂ nanostructures. <i>Nanotechnology</i> , 2010 , 21, 175301	3.4	7
82	Magnetization reversal in Ni/FeF ₂ heterostructures with the coexistence of positive and negative exchange bias. <i>Physical Review B</i> , 2012 , 86,	3.3	7
81	The effect of magnetic interaction in barium hexaferrite particles. <i>Journal of Applied Physics</i> , 1997 , 81, 3812-3814	2.5	7
80	Electrical properties in granular Co-ZrO ₂ thin films. <i>International Journal of Nanotechnology</i> , 2005 , 2, 43	1.5	7
79	CoFe-based granular alloys: the role of the metallic matrix. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 210, 295-301	2.8	7
78	Texture, strain and alloying in sputtered granular magnetic films. <i>Acta Materialia</i> , 1999 , 47, 1661-1670	8.4	7
77	Monte Carlo study of a kinetic lattice model with random diffusion of disorder. <i>Physical Review E</i> , 1994 , 49, 2041-2048	2.4	7

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74	Two spin-containing fragments connected by a two-electron one-center heteroatom spacer. A new open-shell organic molecule with a singlet ground state. <i>Journal of Materials Chemistry</i> , 1998 , 8, 1165-1172		6
73	Nanostructural origin of the ac conductance in dielectric granular metals: The case study of Co ₂₀ (ZrO ₂) ₈₀ . <i>Applied Physics Letters</i> , 2007 , 91, 052108	3.4	6
72	Monte Carlo study of the finite-size effects on the magnetization of maghemite small particles. <i>Journal of Applied Physics</i> , 2001 , 89, 7597-7599	2.5	6
71	Domain structures and training effects in granular thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 221, 45-56	2.8	6
70	Magnetic relaxation and superparamagnetism in nanocrystalline ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 157-158, 191-192	2.8	6
69	Giant magnetoresistance in NiFe-Ag granular alloys. <i>Journal of Applied Physics</i> , 1994 , 76, 6481-6483	2.5	6
68	A study of vanadium antimonate by antimony-121 Mössbauer spectroscopy and magnetic susceptibility. <i>Inorganica Chimica Acta</i> , 1985 , 105, 197-199	2.7	6
67	Mirror symmetry in magnetization reversal and coexistence of positive and negative exchange bias in Ni/FeF ₂ . <i>Applied Physics Letters</i> , 2011 , 98, 152507	3.4	5
66	Metallic Nanoparticles Embedded in a Dielectric Matrix: Growth Mechanisms and Percolation. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-5	3.2	5
65	Magnetocaloric and shape-memory effects in Ni-Mn-Ga ferro-magnetic alloys. <i>European Physical Journal Special Topics</i> , 2004 , 115, 105-110		5
64	Influence of surface anisotropy on the magnetization reversal of nanoparticles. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 3481-3484		5
63	Diamagnetism and electrical connectivity in an inhomogeneous Ba ₂ YCu ₃ O _{7-x} superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1988 , 153-155, 389-390	1.3	5
62	An investigation of the spin glass behaviour in iron antimonate by iron-57 and antimony-121 Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , 1988 , 41, 463-466	0.8	5
61	Mössbauer studies on one-dimensional iron phthalocyanines. <i>Transition Metal Chemistry</i> , 1983 , 8, 377-380	2.1	5
60	Selective Control over the Morphology and the Oxidation State of Iron Oxide Nanoparticles. <i>Langmuir</i> , 2021 , 37, 35-45	4	5
59	Geometric frustration in ordered lattices of plasmonic nanoelements. <i>Scientific Reports</i> , 2019 , 9, 3529	4.9	4

58	Magnetic relaxation in a model of interacting nanoparticles in terms of microscopic energy barriers. <i>Physica Status Solidi A</i> , 2004 , 201, 3329-3332		4
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