Xavier Batlle

List of Publications by Year
in descending order

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165 papers	6,244 citations	76326 40 h-index	76900 74 g-index
167 all docs	167 docs citations	167 times ranked	6513 citing authors

#	Article	IF	Citations
1	Finite-size effects in fine particles: magnetic and transport properties. Journal Physics D: Applied Physics, 2002, 35, R15-R42.	2.8	1,031
2	Surfactant effects in magnetite nanoparticles of controlled size. Journal of Magnetism and Magnetic Materials, 2007, 316, e756-e759.	2.3	273
3	Tuning the Size, the Shape, and the Magnetic Properties of Iron Oxide Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 390-396.	3.1	255
4	Exchange Bias Phenomenology and Models of Core/Shell Nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 2761-2780.	0.9	254
5	Multiscale origin of the magnetocaloric effect in Ni-Mn-Ga shape-memory alloys. Physical Review B, 2003, 68, .	3.2	171
6	Depth Profile of Uncompensated Spins in an Exchange Bias System. Physical Review Letters, 2005, 95, 047201.	7.8	167
7	Cation distribution and intrinsic magnetic properties of Coâ€Tiâ€dopedMâ€type barium ferrite. Journal of Applied Physics, 1991, 70, 1614-1623.	2.5	155
8	Controlled Synthesis of Iron Oxide Nanoparticles over a Wide Size Range. Langmuir, 2010, 26, 5843-5847.	3.5	147
9	Surfactant Organic Molecules Restore Magnetism in Metal-Oxide Nanoparticle Surfaces. Nano Letters, 2012, 12, 2499-2503.	9.1	132
10	Magnetic field induced entropy change and magnetoelasticity in Ni-Mn-Ga alloys. Physical Review B, 2002, 66, .	3.2	124
11	Magnetic study ofMâ€type doped barium ferrite nanocrystalline powders. Journal of Applied Physics, 1993, 74, 3333-3340.	2.5	121
12	Microscopic origin of exchange bias in core/shell nanoparticles. Physical Review B, 2005, 72, .	3.2	111
13	Magnetic nanoparticles with bulklike properties (invited). Journal of Applied Physics, 2011, 109, .	2.5	105
14	Heating rate influence on the synthesis of iron oxide nanoparticles: the case of decanoic acid. Chemical Communications, 2010, 46, 6108.	4.1	96
15	Stiffness and Thickness of Boron-Nitride Nanotubes. Journal of Nanoscience and Nanotechnology, 2008, 8, 3774-3780.	0.9	81
16	Lateral length scales in exchange bias. Europhysics Letters, 2005, 71, 297-303.	2.0	76
17	Erasing the glassy state in magnetic fine particles. Physical Review B, 1999, 59, 13584-13587.	3.2	75
18	Entropy change and magnetocaloric effect inGd5(SixGe1â˜'x)4. Physical Review B, 2002, 66, .	3.2	75

#	Article	IF	Citations
19	Surface anisotropy broadening of the energy barrier distribution in magnetic nanoparticles. Nanotechnology, 2008, 19, 475704.	2.6	75
20	Exchange-Bias Phenomenon: The Role of the Ferromagnetic Spin Structure. Physical Review Letters, 2015, 114, 097202.	7.8	73
21	Scaling of the entropy change at the magnetoelastic transition inGd5(SixGe1âˆ'x)4. Physical Review B, 2002, 66, .	3.2	70
22	Nature and entropy content of the ordering transitions inRCo2. Physical Review B, 2006, 73, .	3.2	70
23	Vortex state and effect of anisotropy in sub-100-nm magnetic nanodots. Journal of Applied Physics, 2006, 100, 104319.	2.5	69
24	Interaction effects and energy barrier distribution on the magnetic relaxation of nanocrystalline hexagonal ferrites. Physical Review B, 1997, 55, 6440-6445.	3.2	64
25	Liver and brain imaging through dimercaptosuccinic acid-coated iron oxide nanoparticles. Nanomedicine, 2010, 5, 397-408.	3.3	64
26	A high-sensitivity differential scanning calorimeter with magnetic field for magnetostructural transitions. Review of Scientific Instruments, 2003, 74, 4768-4771.	1.3	61
27	Tunneling magnetoresistance inCoâˆ'ZrO2granular thin films. Physical Review B, 2006, 73, .	3.2	57
28	Surface spin canting in BaFe12O19 fine particles. Journal of Magnetism and Magnetic Materials, 1993, 124, 228-238.	2.3	55
29	Asymmetric Reversal in Inhomogeneous Magnetic Heterostructures. Physical Review Letters, 2006, 96, 217205.	7.8	55
30	Direct observation of the magnetic-field-induced entropy change in Gd5(SixGe1âˆ'x)4 giant magnetocaloric alloys. Applied Physics Letters, 2005, 86, 262504.	3.3	53
31	Bidomain state in exchange biased FeF2â•Ni. Applied Physics Letters, 2005, 87, 222509.	3.3	52
32	The effect of oleic acid on the synthesis of Fe_{3âˆ'x}O₄ nanoparticles over a wide size range. Physical Chemistry Chemical Physics, 2015, 17, 27373-27379.	2.8	49
33	Role of the antiferromagnetic bulk spins in exchange bias. Journal of Magnetism and Magnetic Materials, 2016, 416, 2-9.	2.3	48
34	Niâ€"Mnâ€"Ga thin films produced by pulsed laser deposition. Journal of Applied Physics, 2002, 91, 8234.	2.5	47
35	Controlling exchange bias in Coâ€"CoO_xnanoparticles by oxygen content. Nanotechnology, 2009, 20, 175702.	2.6	46
36	Magnetic nanoparticles: From the nanostructure to the physical properties. Journal of Magnetism and Magnetic Materials, 2022, 543, 168594.	2.3	45

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37	Effect of a magnetic field on the magnetostructural phase transition inGd5(SixGe1âˆ’x)4. Physical Review B, 2004, 69, .	3.2	44
38	Nanostructural origin of the spin and orbital contribution to the magnetic moment in Fe3âˆ’xO4 magnetite nanoparticles. Applied Physics Letters, 2009, 94, .	3.3	44
39	Fabrication and structural characterization of highly ordered sub-100-nm planar magnetic nanodot arrays over 1cm2 coverage area. Journal of Applied Physics, 2006, 100, 074318.	2.5	42
40	CoFeâ€“Cu granular alloys: From noninteracting particles to magnetic percolation. Journal of Applied Physics, 1999, 85, 7328-7335.	2.5	41
41	40% tunneling magnetoresistance after anneal at 380â€ŠÂ°C for tunnel junctions with ironâ€“oxide interface layers. Journal of Applied Physics, 2001, 89, 6665-6667.	2.5	41
42	Modelling exchange bias in core/shell nanoparticles. Journal of Physics Condensed Matter, 2007, 19, 406232.	1.8	35
43	Particle size and cooling field dependence of exchange bias in core/shell magnetic nanoparticles. Journal Physics D: Applied Physics, 2008, 41, 134010.	2.8	35
44	Development of vortex state in circular magnetic nanodots: Theory and experiment. Physical Review B, 2010, 81, .	3.2	35
45	Remanence breakdown in granular alloys at magnetic percolation. Journal of Applied Physics, 2000, 88, 1576-1582.	2.5	34
46	Magnetization depth dependence in exchange biased thin films. Applied Physics Letters, 2006, 89, 072504.	3.3	32
47	Universality of the electrical transport in granular metals. Scientific Reports, 2016, 6, 29676.	3.3	32
48	The effect of the microstructure on the magnetic interactions in CoFeâ€“AgCu granular films: From demagnetizing to magnetizing interactions. Applied Physics Letters, 1997, 70, 132-134.	3.3	29
49	Quantification of Dipolar Interactions in Fe_{3â€“x}O₄ Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 24142-24148.	3.1	29
50	Deviation from bulk in the pressure-temperature phase diagram of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">V</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> thin films. Physical Review B, 2017, 95, .	3.2	28
51	Magnetic interactions, weak ferromagnetism, and field-induced transitions inNd2NiO4. Physical Review B, 1992, 45, 2830-2843.	3.2	27
52	Interface effects in the magneto-optical properties of Co nanoparticles in dielectric matrix. Applied Physics Letters, 2007, 90, 182506.	3.3	27
53	Loop bifurcation and magnetization rotation in exchange-biasedNiâ•FeF2. Physical Review B, 2005, 72, .	3.2	26
54	Giant heat dissipation at the low-temperature reversible-irreversible transition inGd5Ge4. Physical Review B, 2005, 72, .	3.2	26

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55	Synthesis and Characterization of Stabilized Subnanometric Cobalt Metal Particles. Journal of the American Chemical Society, 2005, 127, 18026-18030.	13.7	26
56	Coexistence of short-range ferromagnetic and antiferromagnetic correlations in Ge-rich Gd5(SixGe1â^'x)4alloys. Journal Physics D: Applied Physics, 2005, 38, 3343-3347.	2.8	25
57	Tuning exchange bias in Ni/FeF2 heterostructures using antidot arrays. Applied Physics Letters, 2009, 95, .	3.3	25
58	Three-dimensional spin structure in exchange-biased antiferromagnetic/ferromagnetic thin films. Applied Physics Letters, 2009, 95, .	3.3	25
59	Direct imaging of the magnetic polarity and reversal mechanism in individual Fe_{3â^'x}O₄ nanoparticles. Nanoscale, 2015, 7, 8110-8114.	5.6	25
60	Aggregation state and magnetic properties of magnetite nanoparticles controlled by an optimized silica coating. Journal of Applied Physics, 2017, 121, .	2.5	24
61	Competing tunneling and capacitive paths inCoâ^'ZrO2granular thin films. Physical Review B, 2003, 67, .	3.2	23
62	Dynamics of the first-order magnetostructural transition in Gd5(Si x Ge1-x)4. European Physical Journal B, 2004, 40, 427-431.	1.5	23
63	Exchange bias and asymmetric hysteresis loops from a microscopic model of core/shell nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 316, 140-142.	2.3	23
64	Measurement of the vortex core in sub-100â€‰nm Fe dots using polarized neutron scattering. Europhysics Letters, 2009, 86, 67008.	2.0	22
65	Superparamagnetic versus blocked states in aggregates of Fe_{3â^'x}O₄ nanoparticles studied by MFM. Nanoscale, 2015, 7, 17764-17770.	5.6	22
66	Cation distribution and magnetization of BaFe12â^'2xCoxSnxO19(x=0.9,1.28) single crystals. Journal of Applied Physics, 1992, 72, 4608-4614.	2.5	21
67	Particle growth mechanisms in Agâ€“ZrO2and Auâ€“ZrO2granular films obtained by pulsed laser deposition. Nanotechnology, 2006, 17, 4106-4111.	2.6	20
68	Acoustic emission across the magnetostructural transition of the giant magnetocaloricGd5Si2Ge2. Physical Review B, 2006, 73, .	3.2	20
69	Reduction of iron by decarboxylation in the formation of magnetite nanoparticles. Physical Chemistry Chemical Physics, 2011, 13, 19485.	2.8	20
70	Antiferromagnetic/ferromagnetic nanostructures for multidigit storage units. Applied Physics Letters, 2014, 104, 032401.	3.3	20
71	The nature of magnetic interactions in CoFe-Ag(Cu) granular thin films. Journal Physics D: Applied Physics, 2000, 33, 609-613.	2.8	19
72	Low-resistance spin-dependent tunnel junctions with HfAlO/sub x/ barriers for high-density recording-head application. IEEE Transactions on Magnetics, 2002, 38, 2703-2705.	2.1	19

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73	Selective Control over the Morphology and the Oxidation State of Iron Oxide Nanoparticles. Langmuir, 2021, 37, 35-45.	3.5	19
74	Change in entropy at a first-order magnetoelastic phase transition: Case study of Gd5(SixGe1â^'x)4 giant magnetocaloric alloys. Journal of Applied Physics, 2003, 93, 8313-8315.	2.5	19
75	Magnetic study of spin freezing in the spin glassBaCo6Ti6O19: Static and dynamic analysis. Physical Review B, 1992, 46, 8994-9001.	3.2	18
76	Magnetotransport properties of NiFeâ€“Ag granular alloys: Origin of the thermal behavior. Journal of Applied Physics, 1997, 82, 677-687.	2.5	18
77	Equivalent circuit modeling of the ac response of Pd-ZrO₂granular metal thin films using impedance spectroscopy. Journal Physics D: Applied Physics, 2015, 48, 335306.	2.8	18
78	Cationic distribution, magnetization and magnetic anisotropy of Co2+ doped M-type barium ferrite. Journal of Magnetism and Magnetic Materials, 1990, 83, 465-467.	2.3	17
79	Nanocrystalline M-type hexaferrite powders: preparation, geometric and magnetic properties. IEEE Transactions on Magnetics, 1994, 30, 714-716.	2.1	17
80	Glassy behavior in magnetic fine particles. Journal of Magnetism and Magnetic Materials, 2000, 221, 26-31.	2.3	17
81	Size mediated control of the optical and magneto-optical properties of Co nanoparticles in ZrO2. Journal of Applied Physics, 2006, 100, 074320.	2.5	17
82	Tuning the magnetic properties of Co-ferrite nanoparticles through the 1,2-hexadecanediol concentration in the reaction mixture. Physical Chemistry Chemical Physics, 2015, 17, 13143-13149.	2.8	17
83	Static magnetic properties of nanocrystalline Co-Ti doped barium ferrite BaFe/sub 12-2x/Co/sub x/Ti/sub x/O/sub 19/ (x=0.8). IEEE Transactions on Magnetics, 1994, 30, 708-710.	2.1	16
84	Magnetic transitions inNd2NiO4. Physical Review B, 1991, 43, 10451-10454.	3.2	15
85	Griffiths-like phase and magnetic correlations at high fields in Gd5Ge4. Physical Review B, 2011, 83, .	3.2	15
86	Spin glass transition in BaCo6Ti6O19. Journal of Applied Physics, 1991, 70, 6172-6174.	2.5	14
87	Evidence of domain wall scattering in thin films of granular CoFe-AgCu. European Physical Journal B, 2000, 17, 43-50.	1.5	14
88	From Finite Size and Surface Effects to Glassy Behaviour in Ferrimagnetic Nanoparticles. , 2005, , 105-140.		14
89	Weak ferromagnetism and magnetic interactions in La2NiO4. Journal of Physics Condensed Matter, 1992, 4, 487-496.	1.8	13
90	Exchange bias phenomenology and models of core/shell nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 2761-80.	0.9	13

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91	From demagnetizing to magnetizing interactions in CoFeâ€“AgCu granular films. Journal of Applied Physics, 1997, 81, 4593-4595.	2.5	12
92	Magnetic microstructures from magnetic force microscopy and Monte Carlo simulation in CoFe-Ag-Cu granular films. IEEE Transactions on Magnetics, 1998, 34, 912-914.	2.1	12
93	Entropy change at the magnetostructural transition in. Journal of Magnetism and Magnetic Materials, 2006, 301, 378-382.	2.3	12
94	Quantitative x-ray photoelectron spectroscopy study of Al/AlO[sub x] bilayers. Journal of Applied Physics, 2002, 91, 10163.	2.5	11
95	Study of the oxygen migration versus anneal in Co/AlOx/Feâ€“FeOy/Ti tunnel junctions. Journal of Magnetism and Magnetic Materials, 2003, 261, L305-L310.	2.3	11
96	Nucleation phenomenon in nanoparticle self-assemblies. International Journal of Nanotechnology, 2005, 2, 62.	0.2	11
97	Probing Nanoparticle Magnetism by Aberration Corrected STEM-EELS. Microscopy and Microanalysis, 2012, 18, 1362-1363.	0.4	11
98	SiO₂coating effects in the magnetic anisotropy of Fe_{3â^'x}O₄nanoparticles suitable for bio-applications. Nanotechnology, 2013, 24, 155705.	2.6	11
99	Nanoparticles with tunable shape and composition fabricated by nanoimprint lithography. Nanotechnology, 2015, 26, 445302.	2.6	11
100	Crucial Role of the Co Cations on the Destabilization of the Ferrimagnetic Alignment in Co-Ferrite Nanoparticles with Tunable Structural Defects. Journal of Physical Chemistry C, 2021, 125, 691-701.	3.1	11
101	The effect of quenching rate on the nanocrystallization of amorphous Feî—¸Cuî—¸Nbî—¸Sîî—¸B. Journal of Magnetism and Magnetic Materials, 1997, 171, 315-319.	2.3	10
102	Magnetic properties of dense graphitic filaments formed via thermal decomposition of mesitylene in an applied electric field. Carbon, 2006, 44, 2864-2867.	10.3	10
103	Magnetic properties of dense carbon nanospheres prepared by chemical vapor deposition. Chemical Physics Letters, 2007, 447, 295-299.	2.6	10
104	Modification of magnetic properties of polyethyleneterephthalate by iron ion implantation. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 589-592.	1.4	10
105	Manipulation of competing ferromagnetic and antiferromagnetic domains in exchange-biased nanostructures. Physical Review B, 2015, 92, .	3.2	10
106	Inducing glassy magnetism in Co-ferrite nanoparticles through crystalline nanostructure. Journal of Materials Chemistry C, 2015, 3, 4522-4529.	5.5	10
107	Magnetic properties of nanocrystalline barium hexaferrite powders: anisotropy field and interaction effects. Journal of Magnetism and Magnetic Materials, 1993, 127, 229-232.	2.3	9
108	Low resistance spin-dependent tunnel junctions with ZrAlO[sub x] barriers. Journal of Applied Physics, 2002, 91, 7463.	2.5	9

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109	...ial scanning calorimetry experiments in <mml:math altimg="si25.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http:/... Journal of Magnetic...	2.3	9
110	Reply to â€œComment on â€˜Nature and entropy content of the ordering transitions inRCo2â€™ â€. Physical Review B, 2007, 75, .	3.2	9
111	Magnetic properties of Co nanoparticles in zirconia matrix. Journal of Magnetism and Magnetic Materials, 2007, 316, 103-105.	2.3	9
112	Magnetization reversal in Ni/FeF<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>heterostructures with the coexistence of positive and negative exchange bias. Physical Review B, 2012, 86, .	3.2	9
113	Electrical properties in granular Co-ZrO<SUB align=right>2 thin films. International Journal of Nanotechnology, 2005, 2, 43.	0.2	8
114	Nanostructural origin of the ac conductance in dielectric granular metals: The case study of Co20(ZrO2)80. Applied Physics Letters, 2007, 91, .	3.3	8
115	Metallic Nanoparticles Embedded in a Dielectric Matrix: Growth Mechanisms and Percolation. Journal of Nanomaterials, 2008, 2008, 1-5.	2.7	8
116	ac conductance in granular insulating<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Co-ZrO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>films: A universal response. Physical Review B, 2009, 79, .	3.2	8
117	Probing the variability in oxidation states of magnetite nanoparticles by single-particle spectroscopy. Journal of Materials Chemistry C, 2018, 6, 875-882.	5.5	8
118	Magnetic transitions in Pr2NiO4single crystal. Journal of Applied Physics, 1991, 70, 6329-6331.	2.5	7
119	Magnetic ordering and spin reorientations inNd1.8Sr0.2NiO3.72. Physical Review B, 1994, 49, 9138-9149.	3.2	7
120	The effect of magnetic interaction in barium hexaferrite particles. Journal of Applied Physics, 1997, 81, 3812-3814.	2.5	7
121	Texture, strain and alloying in sputtered granular magnetic films. Acta Materialia, 1999, 47, 1661-1670.	7.9	7
122	Domain structures and training effects in granular thin films. Journal of Magnetism and Magnetic Materials, 2000, 221, 45-56.	2.3	7
123	CoFe-based granular alloys: the role of the metallic matrix. Journal of Magnetism and Magnetic Materials, 2000, 210, 295-301.	2.3	7
124	Characterization of nano-oxide layers fabricated by ion beam oxidation. IEEE Transactions on Magnetics, 2002, 38, 2755-2757.	2.1	7
125	The fabrication of ordered arrays of exchange biased Ni/FeF₂nanostructures. Nanotechnology, 2010, 21, 175301.	2.6	7
126	CATIONIC DISTRIBUTION IN BaFe_{12-2x}Co_xSn_xO₁₉ HEXAGONAL FERRITES SUITABLE FOR MAGNETIC RECORDING. Journal De Physique Colloque, 1988, 49, C8-939-C8-940.	0.2	7

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127	Ba2Fe10Sn2CoO22: Growth, crystal structure (120 K), and magnetic properties. Journal of Solid State Chemistry, 1991, 92, 213-218.	2.9	6
128	Giant magnetoresistance in NiFeâ€Ag granular alloys. Journal of Applied Physics, 1994, 76, 6481-6483.	2.5	6
129	Magnetic relaxation and superparamagnetism in nanocrystalline ferrites. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 191-192.	2.3	6
130	Tâ‹…ln(t/Ï„0) scaling approach and fluctuation field analysis in interacting particulate systems. Journal of Applied Physics, 1997, 81, 7427-7431.	2.5	6
131	Geometric frustration in ordered lattices of plasmonic nanoelements. Scientific Reports, 2019, 9, 3529.	3.3	6
132	Magnetocaloric and shape-memory effects in Ni-Mn-Ga ferro-magnetic alloys. European Physical Journal Special Topics, 2004, 115, 105-110.	0.2	5
133	Mirror symmetry in magnetization reversal and coexistence of positive and negative exchange bias in Ni/FeF2. Applied Physics Letters, 2011, 98, 152507.	3.3	5
134	From capacitive to tunnelling conduction through annealing in metal-insulating granular films: the role of ultra-small particles. Journal Physics D: Applied Physics, 2013, 46, 495304.	2.8	5
135	Driving magnetic domains at the nanoscale by interfacial strain-induced proximity. Nanoscale, 2021, 13, 4985-4994.	5.6	5
136	Deconvolution of Phonon Scattering by Ferroelectric Domain Walls and Point Defects in a PbTiO₃ Thin Film Deposited in a Composition-Spread Geometry. ACS Applied Materials & Interfaces, 2021, 13, 45679-45685.	8.0	5
137	Transport and magnetic properties versus hole doping in (La,Nd)2NiO4+Î´. Journal of the Less Common Metals, 1990, 164-165, 853-861.	0.8	4
138	On the role of particle rotation on the blocking processes of BaFe10.4Co0.8Ti0.8O19 nanocrystalline powder. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 473-474.	2.3	4
139	Temperature dependence of the magnetization processes in Co/Al oxide/Permalloy trilayers. IEEE Transactions on Magnetics, 2000, 36, 2957-2959.	2.1	4
140	Magnetic field induced entropy change and magnetoelasticity in Niâ€“Mnâ€“Ga alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1595-E1596.	2.3	4
141	Au cylindrical nanocup: A geometrically, tunable optical nanoresonator. Applied Physics Letters, 2015, 107, 033102.	3.3	4
142	Geometric frustration in a hexagonal lattice of plasmonic nanoelements. Optics Express, 2018, 26, 20211.	3.4	4
143	Study of the magnetic properties of Nd2NiO4. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 918-920.	2.3	3
144	Magnetic properties of Fe-Cu-Nb-Si-B nanocrystaliine magnetic alloys. IEEE Transactions on Magnetics, 1994, 30, 502-504.	2.1	3

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145	Magnetization reversal mechanisms in colloidal dispersions of magnetite particles. IEEE Transactions on Magnetics, 1998, 34, 2114-2116.	2.1	3
146	Collective mode splitting in hybrid heterostructures. Physical Review B, 2016, 93, .	3.2	3
147	Giant and Anisotropic Magnetoresistance in CoFe-Cu Granular Alloys: The Role of the Ferromagnetic Concentration. Materials Science Forum, 1998, 269-272, 895-900.	0.3	2
148	Surface effects in barium hexaferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 138-139.	2.3	2
149	Training behaviour and magnetic domains in CoFeî—¸AgCu granular films. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 465-466.	2.3	2
150	The oxidation state at tunnel junction interfaces. Journal of Magnetism and Magnetic Materials, 2003, 260, 78-83.	2.3	2
151	Tunable circular dichroism through absorption in coupled optical modes of twisted triskelia nanostructures. Scientific Reports, 2022, 12, 26.	3.3	2
152	Interactions and Demagnetization in Nanostructured Magnetic Materials: Nanocrystalline Particles and Granular Films. , 1997, , 401-405.		1
153	Structural and magnetic properties of iron particles in a copper matrix. Journal of Magnetism and Magnetic Materials, 1999, 203, 120-122.	2.3	1
154	Antiferromagnetic correlations in Feâ€“Cu granular alloys: The role of the surface structure. Journal of Applied Physics, 2000, 87, 3037-3043.	2.5	1
155	Magnetic Force Microscopy: A Powerful Tool to Image Domain Structures in Granular Thin Films. Materials Science Forum, 2000, 352, 9-22.	0.3	1
156	Combined neutron and synchrotron studies of magnetic films. Pramana - Journal of Physics, 2006, 67, 47-55.	1.8	1
157	An Inverted Honeycomb Plasmonic Lattice as an Efficient Refractive Index Sensor. Nanomaterials, 2021, 11, 1217.	4.1	1
158	The microstructure of CoFeî—¸AgCu granular films: Origin of the perpendicular anisotropy. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 274-276.	2.3	0
159	Reply to â€œComment on â€˜Erasing the glassy state in magnetic fine particlesâ€™ â€• Physical Review B, 2000, 62, 1467-1467.	3.2	0
160	Structural and Magnetic Properties of Granular Co-ZrO2 Films. Materials Research Society Symposia Proceedings, 2005, 877, 1.	0.1	0
161	Mechanisms of the magnetostructural transition in Gd5(SixGe1x)4 giant magnetocaloric alloys. , 2006, , .		0
162	Effect of Anisotropy and Exchange Bias on Reversal of Sub-100 nm Magnetic Dots. , 2006, , .		0

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163	Magnetic Structure in Exchange-coupled Antiferromagnet-Ferromagnet Thin Films. , 2006, , .		0
164	Magnetic vortices in Sub-100 nm magnets. , 2009, , .		0
165	XPS Analysis of Thin Insulating Barriers in Magnetic Tunnel Junctions. , 2001, , 537-540.		0