Jess M Gonzlez

List of Publications by Citations

232 papers	2,101 citations	24 h-index	34 g-index
236 ext. papers	2,189 ext. citations	2.5 avg, IF	4 L-index

#	Paper	IF	Citations
232	Hysteresis shift in Fe-filled carbon nanotubes due to Fe. *Physical Review B*, **2002**, 65,	3.3	108
231	Magnetic Capsules for NMR Imaging: Effect of Magnetic Nanoparticles Spatial Distribution and Aggregation. *Journal of Physical Chemistry C*, **2011**, 115, 6257-6264	3.8	72
230	Long-range magnetostatic interactions in arrays of nanowires. *Journal of Magnetism and Magnetic Materials*, **2000**, 222, 227-232	2.8	60
229	Mssbauer Study of Iron-Containing Carbon Nanotubes. *Hyperfine Interactions*, **2002**, 139/140, 535-542	0.8	55
228	Experiments concerning the origin of stress anneal induced magnetic anisotropy in metallic glass ribbons. *Journal of Magnetism and Magnetic Materials*, **1985**, 46, 341-349	2.8	55
227	On the Role of Intergranular Exchange Coupling in the Magnetization Process of Permanent-Magnet Materials. *Europhysics Letters*, **1992**, 20, 175-180	1.6	53
226	Ferromagnetism in Twinned Pt Nanoparticles Obtained by Laser Ablation. *Chemistry of Materials*, **2007**, 19, 889-893	9.6	44
225	Angular dependence of coercivity in Nd-Fe-B sintered magnets: Proof that coherent rotation is not involved. *Physical Review B*, **1995**, 52, 13511-13518	3.3	42
224	Disorder effect on the magnetic behavior of mechanically alloyed Fe1Alx (0.2?x?0.4). *Physical Review B*, **2009**, 79,	3.3	39
223	CoFe2O4olypyrrole (PPy) nanocomposites: new multifunctional materials. *Nanotechnology*, **2004**, 15, S322-S327	3.4	38
222	Different kinds of magnetic anisotropies induced by current annealing in metallic glasses. *Journal of Magnetism and Magnetic Materials*, **1987**, 68, 151-156	2.8	38
221	Coercivity of Fe-SiO2 nanocomposite materials prepared by ball milling. *Journal of Applied Physics*, **1994**, 76, 6573-6575	2.5	35
220	Monte Carlo technique with a quantified time step: Application to the motion of magnetic moments. *Physical Review B*, **2003**, 67,	3.3	34
219	Magneto-optical and magnetoplasmonic properties of epitaxial and polycrystalline Au/Fe/Au trilayers. *Physical Review B*, **2011**, 83,	3.3	33
218	Langevin dynamic simulation of spin waves in a micromagnetic model. *Physical Review B*, **2002**, 65,	3.3	32
217	Soft and hard nanostructured magnetic materials. *Hyperfine Interactions*, **2000**, 130, 221-240	0.8	31
216	Non-Arrhenius relaxation in micromagnetic models of systems with many degrees of freedom. *Physical Review B*, **1995**, 52, 16034-16040	3.3	30

215	Anisotropy, hysteresis, and morphology of self-patterned epitaxial Fe/MgO/GaAs films. *Physical Review B*, **2002**, 66,	3.3	29
214	Brownian dynamics approach to interacting magnetic moments. *Journal of Magnetism and Magnetic Materials*, **2003**, 266, 28-35	2.8	27
213	Magnetic properties of the FexMn0.70Al0.30 (0.40?x?0.58) alloy series. *Journal of Applied Physics*, **1997**, 82, 6165-6169	2.5	25
212	On the intergranular coupling in soft nanocrystalline materials. *Journal of Materials Research*, **1996**, 11, 512-517	2.5	25
211	Stress annealing in Fe73.5Cu1Ta3Si13.5B9 amorphous alloy: Induced magnetic anisotropy and variation of the magnetostriction constant. *Journal of Applied Physics*, **1994**, 76, 1131-1134	2.5	25
210	Coercivity in SmCo hard magnetic films for MEMS applications. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 1234-1236	2.8	24
209	The effect of the distribution of vacancies on the magnetic properties of Fe2O3 particles. *Journal of Materials Research*, **1994**, 9, 135-141	2.5	24
208	Magnetic properties of Co and Ni based alloy nanoparticles dispersed in a silica matrix. *Nuclear Instruments & Methods in Physics Research B*, **2001**, 175-177, 479-484	1.2	23
207	Effect of the annealing conditions and grain size on the soft magnetic character of FeCu(Nb/Ta)SiB nanocrystalline alloys. *Journal of Magnetism and Magnetic Materials*, **2000**, 218, 53-59	2.8	22
206	Thermal dependence of the magnetization of antiferromagnetic copper(II) oxide nanoparticles. *Solid State Communications*, **2004**, 130, 247-251	1.6	21
205	Coercivity analysis in sputtered SmCo thin films. *Journal of Applied Physics*, **1999**, 85, 6148-6150	2.5	20
204	Spin-wave excitations in ribbon-shaped Fe nanoparticles. *Physical Review B*, **2004**, 69,	3.3	19
203	Magnetic properties of disordered Fe0.9Mn0.1Alx alloys. *Journal of Applied Physics*, **2000**, 87, 7425-7429	2.5	19
202	Magnetic and hysteretic properties of Fe-filled nanotubes. *IEEE Transactions on Magnetics*, **2001**, 37, 2117-2119	2	18
201	Magnetic phase diagram of the FexMn0.6Al0.40 alloys series. *Journal of Applied Physics*, **1996**, 79, 6155	2.5	18
200	Surface and bulk magnetic anisotropy in amorphous alloys. *Journal of Applied Physics*, **1985**, 57, 5400-5405	2.5	18
199	Control of magnetization reversal by combining shape and magnetocrystalline anisotropy in epitaxial Fe planar nanowires. *Nanotechnology*, **2010**, 21, 255301	3.4	17
198	Quantitative analysis of the collective behavior in a micromagnetic model. *Physical Review B*, **1997**, 55, 921-930	3.3	17

197	Anisotropic polymer bonded hard-magnetic films for microelectromechanical system applications. *Journal of Applied Physics*, **2006**, 99, 08N303	2.5	17
196	A micromagnetic study of the hysteretic behavior of antidot Fe films. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 149-152	2.8	17
195	Coercivity mechanisms in lithographed antidot arrays. *Europhysics Letters*, **2008**, 84, 67002	1.6	16
194	Enhanced remanence in flash-annealed Nd/sub 4/Fe/sub 78/B/sub 18/. *IEEE Transactions on Magnetics*, **1995**, 31, 3614-3616	2	16
193	Role of the heating rate up to the annealing temperature on the hysteretic properties of hard magnetic materials prepared from amorphous precursors. *Journal of Alloys and Compounds*, **1993**, 191, 127-130	5.7	16
192	Compositional dependence of the effective magnetic anisotropy in nanocrystalline Fe□rB□(Cu) alloys. *Journal of Applied Physics*, **1998**, 83, 6338-6340	2.5	15
191	. *IEEE Transactions on Magnetics*, **1989**, 25, 3363-3365	2	15
190	Scaling of the coercivity with the geometrical parameters in epitaxial Fe antidot arrays. *Journal of Applied Physics*, **2012**, 111, 073908	2.5	14
189	Interactions and hysteresis behaviour of Fe/SiO2 nanocomposites. *Journal of Magnetism and Magnetic Materials*, **2002**, 242-245, 1103-1105	2.8	14
188	On the relationship between the hysteresis loop shift and the dipolar interactions in hard□soft nanocomposite samples. *Journal of Magnetism and Magnetic Materials*, **2000**, 221, 187-195	2.8	14
187	Detailed analysis of the crystallization of the Co-P amorphous system: Kinetics, influence of magnetic order, and formation of textures. *Physical Review B*, **1997**, 56, 6056-6065	3.3	13
186	Magnetic behaviour and percolation in mechanically alloyed Fe□SiO2 granular solids. *Journal of Magnetism and Magnetic Materials*, **2000**, 221, 207-214	2.8	13
185	Magnetic properties of Ni nanoparticles dispersed in silica prepared by high-energy ball milling. *Europhysics Letters*, **1998**, 42, 91-96	1.6	13
184	A micromagnetic approach, based on the Monte Carlo algorithm, to the thermally activated magnetization reversal processes. *Journal of Magnetism and Magnetic Materials*, **1999**, 203, 18-22	2.8	13
183	Preparation and magnetic properties of monodispersed Zn ferrites of submicrometric size. *Journal of Materials Science*, **1993**, 28, 2962-2966	4.3	13
182	Magnetic properties of FexMn0.3Al0.7-x(0.275 ?x? 0.525) disordered alloys. *Journal of Physics Condensed Matter*, **2000**, 12, 611-621	1.8	12
181	Real time quantification of Monte Carlo steps for different time scales. *Journal of Applied Physics*, **2000**, 87, 4798-4800	2.5	12
180	Coercivity through controlled crystallization in melt-spun Nd?Fe?B amorphous alloys. *Journal of Alloys and Compounds*, **1992**, 182, 211-221	5.7	12

179	Helical anisotropy induced by annealing in metglas 2826. *Journal of Magnetism and Magnetic Materials*, **1983**, 31-34, 1553-1554	2.8	12
178	Effect of Si on the magnetic properties of the Fe70Al30 alloy. *Physica B: Condensed Matter*, **2006**, 384, 313-315	2.8	11
177	Evidences of non-Arrhenius magnetic relaxation in macroscopic systems: Experiments and related simulations. *Europhysics Letters*, **1998**, 41, 671-676	1.6	11
176	Magnetic properties of the mechanically alloyed Fe0.9-xMn0.1Alx system **1999**, 122, 189-199		11
175	Mössbauer analysis of the phase distribution present in nanoparticulate Fe/SiO2 samples. *Journal of Magnetism and Magnetic Materials*, **1999**, 203, 175-177	2.8	11
174	Modeling the influence of intergranular phases on the hysteretic behavior of hard magnetic polycrystals. *Journal of Applied Physics*, **1993**, 73, 6943-6945	2.5	11
173	Magnetic properties of amorphous sputtered CoxSi1−x films. *Journal of Magnetism and Magnetic Materials*, **1983**, 38, 105-108	2.8	11
172	Magnetic viscosity and coercivity analysis in mechanically alloyed and melt-spun NdDyFeB magnets. *Journal of Magnetism and Magnetic Materials*, **1998**, 185, 180-186	2.8	10
171	Preparation and characterization of CrO2 films by Low Pressure Chemical Vapor Deposition from CrO3. *Thin Solid Films*, **2013**, 539, 1-11	2.2	9
170	Evidence of magnetic dipolar interaction in micrometric powders of the Fe50Mn10Al40 system: Melted alloys. *Journal of Magnetism and Magnetic Materials*, **2013**, 327, 137-145	2.8	9
169	Avalanches as propagating domain walls in a micromagnetic model. *Physica D: Nonlinear Phenomena*, **1998**, 113, 382-386	3.3	9
168	Magnetic properties of ball milled Cu70Fe15Mn15. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 602-605	2.8	9
167	Reversible magnetization variations in large field ranges associated to periodic arrays of antidots. *IEEE Transactions on Magnetics*, **2005**, 41, 3106-3108	2	9
166	Thermally activated demagnetization in Co/Ni multilayers involving discrete identifiable stages. *Applied Physics Letters*, **1999**, 75, 847-849	3.4	9
165	Thermal dependence of coercivity in Co-based nanostructures. *Journal of Magnetism and Magnetic Materials*, **2000**, 221, 172-177	2.8	8
164	Soft magnetic properties of Fe-B prepared by mechanical alloying. *Scripta Metallurgica Et Materialia* , **1995**, 33, 1725-1730		8
163	On the relaxation of simple magnetic systems. *Journal of Applied Physics*, **1996**, 79, 6479	2.5	8
162	Experimental Comparison and Analysis of Coercivity Models. *Europhysics Letters*, **1994**, 28, 143-148	1.6	8

161	Hysteretic behaviour of rapidly solidified Nd15Dy Fe76B9. *Journal of Magnetism and Magnetic Materials*, **1991**, 101, 397-398	2.8	8
160	Determination of internal stresses distribution for a nearly-zero magnetostriction amorphous alloy. *Journal of Magnetism and Magnetic Materials*, **1986**, 54-57, 261-262	2.8	8
159	Evidence of dipolar magnetic field in mechanically alloyed Fe50Al50 samples. *Journal of Alloys and Compounds*, **2012**, 536, S377-S380	5.7	7
158	The effect of magnetic interaction in barium hexaferrite particles. *Journal of Applied Physics*, **1997**, 81, 3812-3814	2.5	7
157	Monte Carlo study of the magnetic properties of Fe-rich AlFe disordered alloys. *Journal of Applied Physics*, **1997**, 81, 5270-5272	2.5	7
156	Development of magnetic softness in high-energy ball milling alloyed Fe50B50. *Journal of Magnetism and Magnetic Materials*, **2003**, 261, 337-346	2.8	7
155	Micromagnetic modelling of thermal decay in interacting systems. *Journal of Magnetism and Magnetic Materials*, **2000**, 221, 132-136	2.8	7
154	Phase diagram of a highly diluted, disordered Ising system: The Al-rich, AlFe system. *Journal of Applied Physics*, **1998**, 83, 7249-7251	2.5	7
153	Magnetic hardening of melt-spun 2:14:1-based materials by high heating rate and short time crystallization treatments. *Journal of Materials Research*, **1995**, 10, 292-296	2.5	7
152	Interactions and magnetic viscosity: Nonmonotonic time variation of the magnetization during relaxation at constant demagnetizing field. *Applied Physics Letters*, **1996**, 69, 4251-4253	3.4	7
151	Coercivity of crystallized melt-spun Nd15DyxFe76B9 (x = 3, 6, 9, 12, 15). *Journal of Magnetism and Magnetic Materials*, **1992**, 104-107, 1179-1181	2.8	7
150	Microstructural study of the crystallization product of the Co100Px amorphous system. *Journal of Materials Research*, **1993**, 8, 105-111	2.5	7
149	Dynamic magnetic properties of amorphous Fe80B20 thin films and their relation to interfaces. *AIP Advances*, **2020**, 10, 015013	1.5	7
148	Magnetic interactions in nanocrystalline SmFeCo. *Journal of Applied Physics*, **1996**, 79, 6312	2.5	6
147	Saturation magnetostriction dependence on torsion in amorphous wire as measured by modified small angle magnetization rotation method. *Journal of Magnetism and Magnetic Materials*, **1997**, 169, 169-177	2.8	6
146	Preparation of hard magnetic materials in thin film form. *Journal of Magnetism and Magnetic Materials*, **2008**, 320, 1966-1971	2.8	6
145	Experimental and computational analysis of the angular dependence of the hysteresis processes in an antidots array. *Journal of Applied Physics*, **2006**, 99, 08S503	2.5	6
144	Structural, chemical and magnetic characterization of iron nitride thin films. *Surface and Interface Analysis*, **2006**, 38, 392-395	1.5	6

143	Magnetoelastic sensor as a probe for muscular activity: An in vivo experiment. *Sensors and Actuators A: Physical*, **2001**, 91, 99-102	3.9	6
142	Field and thermally activated demagnetization processes in ultra-thin films with in-plane anisotropy: occurrence of non-equivalent reversal modes. *Journal of Magnetism and Magnetic Materials*, **2000**, 222, 314-326	2.8	6
141	Structural and magnetic properties of mechanically alloyed (Fe0.5Mn0.5)xCu100□ nanocrystalline compounds. *Journal of Non-Crystalline Solids*, **2001**, 287, 268-271	3.9	6
140	Influence of the configurational degeneracy on the hysteretic behavior of a system of magnetostatically coupled magnetic moments. *Journal of Applied Physics*, **1998**, 83, 7393-7395	2.5	6
139	Characterization of Joule-heated Co-rich amorphous alloys under applied tensile stress by the inductance spectroscopy method. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 830-831	2.8	6
138	The effective anisotropy of nanocrystallized Co-based alloys. *Journal of Magnetism and Magnetic Materials*, **1999**, 203, 211-213	2.8	6
137	Magnetic properties of mechanically alloyed amorphous Fe50B50. *Journal of Magnetism and Magnetic Materials*, **1995**, 140-144, 249-250	2.8	6
136	Mechanically ground Fe73.5Cu1Nb3Si13.5B9: A soft magnetic material in powdered form. *Journal of Applied Physics*, **1996**, 79, 5479	2.5	6
135	Polarizing effects of magnetization on the crystallization of Co100□Px amorphous alloys. *Journal of Applied Physics*, **1993**, 73, 5372-5374	2.5	6
134	. *IEEE Transactions on Magnetics*, **1994**, 30, 1015-1017	2	6
133	A superconducting/magnetic hybrid rectifier based on Fe single-crystal nanocentres: role of magnetic and geometric asymmetries. *Journal Physics D: Applied Physics*, **2013**, 46, 095302	3	5
132	Ferromagnetic resonance and magnetooptic study of submicron epitaxial Fe(001) stripes. *Journal of Applied Physics*, **2012**, 111, 123917	2.5	5
131	On the relationships between the temperature dependence of the magnetization and the average grain size in nanostructured samples. *Journal of Applied Physics*, **1997**, 81, 4658-4660	2.5	5
130	Barkhausen jump distributions in a micromagnetic model. *Journal of Magnetism and Magnetic Materials*, **1998**, 184, L257-L261	2.8	5
129	Magnetic properties of ball-milled Fe0.6Mn0.1Al0.3 alloys. *Journal of Magnetism and Magnetic Materials*, **2007**, 316, e418-e421	2.8	5
128	Crystallization and magnetic hardening of SmCo thin films. *Journal of Non-Crystalline Solids*, **2007**, 353, 786-789	3.9	5
127	Stray field fluctuations in soft-hard nanostructured materials: Its influence on the shift of minor hysteresis loops. *Physical Review B*, **2001**, 63,	3.3	5
126	Influence of Cr addition on the magnetic softness of nanocrystalline FeCuNbSiB alloys. *Scripta Metallurgica Et Materialia*, **1995**, 33, 1757-1764		5

125	Thermally activated demagnetization in Fe-SiO2 granular solids. *Scripta Metallurgica Et Materialia*, **1995**, 33, 1709-1716		5
124	Phase distribution and magnetic properties of mechanically alloyed Sm-Fe. *IEEE Transactions on Magnetics*, **1993**, 29, 2857-2859	2	5
123	. *IEEE Transactions on Magnetics*, **1994**, 30, 772-774	2	5
122	Thermomagnetic behaviour of mechanically alloyed Fe-Si. *Journal of Magnetism and Magnetic Materials*, **1991**, 101, 119-121	2.8	5
121	Transverse susceptibility and inhomogeneities in the local anisotropy of amorphous alloys. *Journal of Magnetism and Magnetic Materials*, **1988**, 72, 187-193	2.8	5
120	Breaking the configurational anisotropy in Fe single crystal nanomagnets. *Applied Physics Letters*, **2014**, 104, 102406	3.4	4
119	Magnetization reversal models and the temperature dependence of the coercive force in melt spun PrNdFeB magnets. *Journal of Applied Physics*, **1997**, 81, 4431-4433	2.5	4
118	Temperature dependence of the magnetic properties in LaMnO3+□*Journal of Applied Physics*, **2006**, 99, 08A702	2.5	4
117	Temperature dependence of the hysteretic properties in SmCo films. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, E833-E835	2.8	4
116	A Comparative Study on the Magnetic Properties of Arc-Melted and Ball-Milled Fe0.9□ Mn0.1Al x Alloys. *Hyperfine Interactions*, **2001**, 134, 27-35	0.8	4
115	Magnetic and Structural Study of Mechanically Alloyed Fe0.7□MnxAl0.3. *Physica Status Solidi (B): Basic Research*, **2000**, 220, 445-448	1.3	4
114	Temperature dependence of the magnetization processes in Co/Al oxide/Permalloy trilayers. *IEEE Transactions on Magnetics*, **2000**, 36, 2957-2959	2	4
113	Hysteresis and relaxation of hard□soft nanocomposite samples. *Journal of Applied Physics*, **2000**, 87, 4759-4761	2.5	4
112	Magnetic viscosity of granular Fe films prepared by laser ablation. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 96-98	2.8	4
111	Simulation of magnetic relaxation by a Monte Carlo technique with correlations and quantified time steps. *IEEE Transactions on Magnetics*, **1999**, 35, 3730-3732	2	4
110	From metastable to stable states in a magnetic system with many degrees of freedom. *Journal of Magnetism and Magnetic Materials*, **1995**, 140-144, 1847-1848	2.8	4
109	Phase segregation and interactions in Dy-substituted melt spun Nd-Fe-B alloys. *IEEE Transactions on Magnetics*, **1995**, 31, 3683-3685	2	4
108	Crystallization by ball milling: a way to produce soft magnetic materials in powdered form. *IEEE Transactions on Magnetics*, **1995**, 31, 3904-3906	2	4

107	Magnetization reversal on recoil curves in SmCo5 and nanocrystalline SmFeCo. *Journal of Magnetism and Magnetic Materials*, **1996**, 157-158, 529-530	2.8	4
106	Modelling the time dependence of the magnetization in a system with many degrees of freedom. *Journal of Magnetism and Magnetic Materials*, **1996**, 157-158, 363-365	2.8	4
105	Coercivity Acquisition in Permanent Magnet Materials: an Exchange-Controlled Mechanism. *Japanese Journal of Applied Physics*, **1994**, 33, 4606-4613	1.4	4
104	Hysteretic behaviour of melt-spun Nd13Fe79B8 after different crystallization treatments. *Journal of Magnetism and Magnetic Materials*, **1992**, 104-107, 1141-1142	2.8	4
103	Transport and magnetic properties versus hole doping in (La,Nd)2NiO4+ *Journal of the Less Common Metals*, **1990**, 164-165, 853-861		4
102	Mecanismos de inversi de la magnetizaci e interacciones en sistemas magn icos: campo coercitivo versus campo de conmutaci y desimanaci t micamente asistida. *Boletin De La Sociedad Espanola De Ceramica Y Vidrio*, **2005**, 44, 169-176	1.9	4
101	Anisotropy and hysteretic behavior of single-crystal Fe triangular nanomagnets. *Physica B: Condensed Matter*, **2018**, 549, 35-39	2.8	3
100	Micromagnetic simulation of the relaxation processes taking place in systems with distributed properties. *Journal of Applied Physics*, **1997**, 81, 5573-5575	2.5	3
99	On the role of dipolar coupling in the magnetization reversal process in hard-soft nanocomposite magnets. *IEEE Transactions on Magnetics*, **1997**, 33, 3892-3894	2	3
98	Magnetic interactions in Fe a hexaferrite nanocomposite materials. *Journal of Applied Physics*, **1998**, 83, 6277-6279	2.5	3
97	Magnetization reversal mechanisms in colloidal dispersions of magnetite particles. *IEEE Transactions on Magnetics*, **1998**, 34, 2114-2116	2	3
96	Comparative study between melted and mechanically alloyed samples of the Fe50Mn10Al40 nanostructured system. *Hyperfine Interactions*, **2008**, 184, 97-103	0.8	3
95	On the Effect of Nanocrystallization and Disorder on the Magnetic Properties of Cu-Rich, FeMnCu Alloys. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 610-617	1.3	3
94	Two routes to disorder in a system with competitive interactions. *Journal of Magnetism and Magnetic Materials*, **2002**, 242-245, 879-881	2.8	3
93	Magnetostrictive thin films prepared by RF sputtering. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 823-825	2.8	3
92	Barrier characteristic in Nb/Ni planar tunnel junctions. *Journal of Magnetism and Magnetic Materials*, **2005**, 286, 146-149	2.8	3
91	Local and global demagnetization process: Is there any self-organized critical behavior?. *Journal of Applied Physics*, **1998**, 83, 7228-7230	2.5	3
90	Highly homogeneous nanoparticulate Fe films prepared by laser ablation. *IEEE Transactions on Magnetics*, **1998**, 34, 1108-1110	2	3

89	Coercivity relaxation in mechanically alloyed amorphous Fe/sub 50/B/sub 50/ samples. *IEEE Transactions on Magnetics*, **1995**, 31, 4023-4025	2	3
88	Low-temperature Mössbauer study of the mechanically alloyed FexMn0.7−xAl0.3 (0.4≤x≤0.5) series. *Journal of Applied Physics*, **1996**, 79, 6611	2.5	3
87	Relaxation processes and coercivity in hard magnets. *IEEE Transactions on Magnetics*, **1996**, 32, 4350-4355	2	3
86	Correlation between high field magnetization measurements and STM imaging of the atomic structure in amorphous Co100-xPx. *Journal of Magnetism and Magnetic Materials*, **1991**, 101, 199-201	2.8	3
85	Study of the surface roughness of Co-based amorphous alloys by STM. *Ultramicroscopy*, **1992**, 42-44, 1329-1336	3.1	3
84	. *IEEE Transactions on Magnetics*, **1990**, 26, 2223-2225	2	3
83	Torsional elastic behaviour in Metglass Fe40Ni40P14B6. *Journal Physics D: Applied Physics*, **1981**, 14, 2243-2246	3	3
82	Antiphase resonance at X-ray irradiated microregions in amorphous Fe80B20 stripes. *Journal of Magnetism and Magnetic Materials*, **2021**, 520, 167017	2.8	3
81	Low temperature study of micrometric powder of melted Fe50Mn10Al40 alloy. *Physica B: Condensed Matter*, **2012**, 407, 2306-2312	2.8	2
80	Occurrence of self-organized criticality in ordered magnetic systems. *Journal of Applied Physics*, **1997**, 81, 4413-4415	2.5	2
79	Creep-induced magnetic anisotropy and magnetostriction in a nanocrystalline Co based alloy. *Journal of Applied Physics*, **1997**, 81, 5683-5685	2.5	2
78	Magnetization reversal processes linked to interphase exchange and dipolar coupling in hard–soft nanocomposite magnets. *Journal of Applied Physics*, **1997**, 81, 4983-4985	2.5	2
77	Effective anisotropy and magnetostriction of the amorphous and nanocrystalline Fe/sub 83/Zr/sub 7/B/sub 8/Cu/sub 2/ alloy. *IEEE Transactions on Magnetics*, **1997**, 33, 3919-3921	2	2
76	Fabrication and properties of c-axis and a-axis oriented EuBa2Cu3O7/SrTiO3 superlattices. *Journal of Alloys and Compounds*, **1997**, 251, 218-221	5.7	2
75	Magnetic phase diagrams for Fe54Al36Nb10and Fe48Al32Nb20alloys. *Journal Physics D: Applied Physics*, **2008**, 41, 155010	3	2
74	Hysteresis in Fe particles with surface and magnetoelastic anisotropies: Experiment and micromagnetic modeling. *Physica B: Condensed Matter*, **2008**, 403, 469-472	2.8	2
73	Magnetoelastic sensors as a new tool for laryngeal research. *Acta Oto-Laryngologica*, **2007**, 127, 1182-7	1.6	2
72	Polymer Bonded Anisotropic Thick Hard Films for Micromotors/Microgenerators. *Journal of Iron and Steel Research International*, **2006**, 13, 240-251	1.2	2

71	Finite size effects and spin transition in ball-milled □(FeMn)30Cu70 nanostructured alloys. *Physica B: Condensed Matter*, **2004**, 354, 174-182	2.8	2
70	M□sbauer Study of Fe x Mn0.65□ Al0.35 Disordered Alloys Series. *Hyperfine Interactions*, **2002**, 141/142, 415-418	0.8	2
69	Micromagnetic simulation of transverse biased initial susceptibility measurements. *Physica B: Condensed Matter*, **2001**, 299, 205-214	2.8	2
68	Micromagnetic simulations of magnetization reversal in Co/Ni multilayers. *Physica B: Condensed Matter*, **2001**, 306, 38-43	2.8	2
67	Magnetic Properties of the Mechanically Alloyed (Fe0.85Mn0.15)0.3Cu0.7 System. *Hyperfine Interactions*, **2001**, 134, 199-206	0.8	2
66	Room Temperature Magnetic Properties of the Mechanically Alloyed Fe0.8□MnxAl0.2 System. *Physica Status Solidi (B): Basic Research*, **2000**, 220, 429-434	1.3	2
65	Evaluation of the anisotropy constant using transverse biased initial susceptibility method. *IEEE Transactions on Magnetics*, **2000**, 36, 3260-3262	2	2
64	Interplay between the vortex phase coherence and extended disorder defects in the vortex-liquid regime of thin films and superlattices of 123 superconductors. *Physical Review B*, **2000**, 62, 8707-8710	3.3	2
63	Dipolar interactions in hard-soft nanocomposites. *IEEE Transactions on Magnetics*, **2000**, 36, 3342-3344	2	2
62	Surfactant control of growth and interface quality in granular magnetic {CoCu}/Cu(111) superlattices. *Surface Science*, **2001**, 482-485, 1077-1082	1.8	2
61	Magnetic viscosity in multilayers: a micromagnetic approach. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 810-812	2.8	2
60	Coercivity analysis in the Cox/(SiO2)100□ nanoparticulate system. *Journal of Magnetism and Magnetic Materials*, **1999**, 203, 205-207	2.8	2
59	Transverse biased initial susceptibility in amorphous ultra-thin films: a micromagnetic simulation. *Journal of Magnetism and Magnetic Materials*, **1999**, 203, 274-276	2.8	2
58	Collective demagnetization processes in systems of exchange coupled grains. *Journal of Magnetism and Magnetic Materials*, **1995**, 140-144, 1843-1844	2.8	2
57	Magnetostriction of nanocrystalline Fe66Cr8Cu1Nb3Si13B9 alloy. *Journal of Magnetism and Magnetic Materials*, **1995**, 140-144, 439-440	2.8	2
56	Magnetic viscosity in melt spun magnets prepared by crystallization of amorphous precursors using different heating rates. *Journal of Magnetism and Magnetic Materials*, **1995**, 140-144, 1055-1056	2.8	2
55	Coercivity and magnetic viscosity of NdDyFeB mechanically alloyed magnets. *IEEE Transactions on Magnetics*, **1995**, 31, 3647-3649	2	2
54	Magnetic viscosity and microstructure: Particle size dependence of the activation volume. *Journal of Applied Physics*, **1996**, 79, 5955	2.5	2

53	Coercivity and remanence of amorphous and nanocrystalline Fe(Cu,Ta)SiB ribbons. *Journal of Applied Physics*, **1996**, 79, 5465	2.5	2
52	. *IEEE Transactions on Magnetics*, **1994**, 30, 4359-4361	2	2
51	. *IEEE Transactions on Magnetics*, **1994**, 30, 631-633	2	2
50	Magnetic hardening by crystallization of amorphous precursors using very high heating rates. *Journal of Applied Physics*, **1994**, 76, 6840-6842	2.5	2
49	Comment on Relation between charge density and curvature of surface of charged conductor, by Kun-Mu Liu [Am. J. Phys. 55, 849–852 (1987)]. *American Journal of Physics*, **1989**, 57, 1044-1046	0.7	2
48	Correlation between positron lifetime results and magnetic behaviour upon relaxation and crystallization of an iron-based amorphous alloy. *Solid State Communications*, **1988**, 65, 1457-1460	1.6	2
47	Development of an Advanced Laboratory for ETCS Applications. *Transportation Research Procedia*, **2016**, 14, 1894-1903	2.4	2
46	Slow magnetic relaxation in well crystallized, monodispersed, octahedral and spherical magnetite nanoparticles. *AIP Advances*, **2019**, 9, 125143	1.5	2
45	Spin waves excitation at micron-sized, anisotropy modified regions in amorphous Fe80B20 stripes: Local properties and inter-regions coupling. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2021**, 271, 115258	3.1	2
44	Nanostructured Magnetic Materials. *Journal of Nanomaterials*, **2013**, 2013, 1-2	3.2	1
43	Effect of the Cu and Nb additives on the effective magnetic anisotropy in FeSiB alloys. *Journal of Applied Physics*, **1997**, 81, 4646-4648	2.5	1
42	Thermal dependence of coercivity in granular CoNiCu glass coated microwires. *Journal of Magnetism and Magnetic Materials*, **2007**, 310, e867-e869	2.8	1
41	Study of the Decrystallization Process Induced by Mechanical Alloying in the Fe100-xBx System. *Journal of Metastable and Nanocrystalline Materials*, **2004**, 20-21, 449-454	0.2	1
40	Decrystallization in Fe100B system by mechanical alloying. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 375-377, 849-852	5.3	1
39	Thermally activated demagnetization in elongated oxide-coated metal particles. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 1528-1529	2.8	1
38	Magnetization reversal in textured Fe nanoparticles having different aspect ratios. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 479-481	2.8	1
37	Thermally activated demagnetization in (La0.97 Ca0.03)0.96Mn0.96 O3. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 482-485	2.8	1
36	Some open problems related to the link between structure, morphology and extrinsic magnetic properties in layered nanostructures. *Physica B: Condensed Matter*, **2001**, 299, 270-279	2.8	1

35	Magnetization reversal and anisotropy in CoO/permalloy/Cu/permalloy/NiO layered structures. *Journal of Magnetism and Magnetic Materials*, **2001**, 226-230, 1764-1766	2.8	1
34	Transverse biased initial susceptibility:. *Journal of Magnetism and Magnetic Materials*, **2001**, 226-230, 1203-1205	2.8	1
33	Influence of the system parameters on the non-Arrhenius magnetic relaxation of systems having distributed properties. *Journal of Applied Physics*, **1998**, 83, 6509-6511	2.5	1
32	Magnetic relaxation in Co/Ni multilayers with different bilayer thickness: an example of non-Arrhenius behavior. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 99-100	2.8	1
31	Micromagnetic modeling of field and thermally activated demagnetization processes in ultrathin films with in-plane anisotropy. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 238-239	2.8	1
30	Correlation between thermal expansion and magnetic behavior in cold deformed Fe?Al alloys. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 240-242	2.8	1
29	Influence of Cu and Ta on the stress induced anisotropy in FeSiB amorphous ribbons. *IEEE Transactions on Magnetics*, **1995**, 31, 3781-3783	2	1
28	Magnetization processes in ultrathin films with high magnetization and perpendicular anisotropy. *Journal of Magnetism and Magnetic Materials*, **1996**, 156, 145-147	2.8	1
27	. *IEEE Transactions on Magnetics*, **1993**, 29, 3108-3110	2	1
26	On the surface charge density of a moving sphere. *American Journal of Physics*, **1990**, 58, 73-75	0.7	1
25	Role of the interfaces in the crystallization and hysteresis mechanisms of amorphous Fe-B thin films. *Journal of Alloys and Compounds*, **2021**, 869, 159276	5.7	1
24	Low temperature superspin glass behavior in a Co/Ag multilayer. *AIP Advances*, **2019**, 9, 125327	1.5	1
23	Temperature dependence of the magnetic interactions taking place in monodisperse magnetite nanoparticles having different morphologies. *AIP Advances*, **2021**, 11, 015025	1.5	1
22	Coercivity and morphology in Fe/NiO films deposited on nanoporous Al2O3 membranes. *Boletin De La Sociedad Espanola De Ceramica Y Vidrio*, **2015**, 54, 241-246	1.9	
21	Monte Carlo simulation of the field sweep rate dependence of the coercivity in a micromagnetic model. *IEEE Transactions on Magnetics*, **1997**, 33, 4179-4181	2	
20	Micromagnetic analysis of the small angle magnetization rotation (SAMR) method response of a twisted low-magnetostrictive wire. *IEEE Transactions on Magnetics*, **1997**, 33, 3955-3957	2	
19	Mössbauer analysis of the phase distribution of Fe64.5Co18B16SiC0.5 soft magnetic samples in powder form. *Journal of Applied Physics*, **1997**, 81, 4655-4657	2.5	
18	On the fluctuation field in multidomain barium hexaferrite particles. *Journal of Materials Research*, **1997**, 12, 2643-2647	2.5	

17	Avalanches Size Distribution in Model Hard Magnetic Materials Having Different Textures **1997**, 121-124	
16	Magnetic Characterization of Ni Nanoparticles Dispersed in Silica **1997**, 327-331	
15	Magnetization Dependence on Temperature and Grain Size in Nanostructured Samples **1997**, 315-319	
14	Dimensional behavior of the anisotropy in the mixed state of a-axis oriented EuBa 2Cu3O7/PrBa 2Cu3O7 and EuBa 2Cu3O7/SrTiO3 multilayers. *Journal of Magnetism and Magnetic Materials*, **1998**, 177-181, 495-496	2.8
13	Comparative study between melted and mechanically alloyed samples of the Fe50Mn10Al40 nanostructured system **2008**, 511-517	
12	Pinning Mechanisms in a-Axis-Oriented EuBa2Cu3O7/PrBa2Cu3O7 and EuBa2Cu3O7/SrTiO3 Multilayers **2002**, 539-544	
11	Crossover from local to collective magnetic relaxation modes in Co/Ni multilayers. *Journal of Magnetism and Magnetic Materials*, **2002**, 242-245, 518-520	2.8
10	Layer thickness and magnetic relaxation properties in sputtered Co/Ni multilayers. *Journal of Magnetism and Magnetic Materials*, **2001**, 226-230, 1792-1794	2.8
9	Mössbauer Study of Iron-Containing Carbon Nanotubes **2002**, 535-542	
8	The transverse biased initial susceptibility measurements simulated in a two-zoned 2D system. *Computational Materials Science*, **2002**, 25, 519-524	3.2
7	Influence of the microstructure on the anisotropy behavior of a-axis oriented systems in the vortex liquid phase. *Physica C: Superconductivity and Its Applications*, **2000**, 341-348, 1211-1212	1.3
6	Magnetic viscosity in Fe?SiO2 granular solids. *Journal of Magnetism and Magnetic Materials*, **1995**, 140-144, 375-376	2.8
5	Magnetic Properties of the Highly Diluted Al-Fe Disordered System. *Springer Proceedings in Physics*, **1999**, 27-32	0.2
4	Magnetization reversal mechanisms in Fe/NiO bilayers grown onto nanoporous alumina membranes and Si wafers. *AIP Advances*, **2020**, 10, 015113	1.5
3	Remanence enhancement for stray field-based applications in arrays of crystalline nanomagnets. *Journal Physics D: Applied Physics*, **2019**, 52, 095002	3
2	Local coercivity at X-ray nanobeam irradiated regions in amorphous Fe80B20 stripes. *AIP Advances*, **2021**, 11, 015318	1.5
1	Critical magnetic behavior in [Ag8/Co0.5]x64, [Ag8/Co1]x32 and [Ag16/Co1]x32 epitaxial multilayers. *AIP Advances*, **2021**, 11, 025220	1.5