

Antonio Hernando Esteban

List of Publications by Citations

Source: <https://exaly.com/author-pdf/949995/antonio-hernando-esteban-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.

645
papers

16,084
citations

55
h-index

102
g-index

672
ext. papers

17,361
ext. citations

3.2
avg. IF

6.45
L-index

#	Paper	IF	Citations
645	Recommender systems survey. <i>Knowledge-Based Systems</i> , 2013 , 46, 109-132	7.3	1687
644	Permanent magnetism, magnetic anisotropy, and hysteresis of thiol-capped gold nanoparticles. <i>Physical Review Letters</i> , 2004 , 93, 087204	7.4	472
643	Magnetic properties of ZnO nanoparticles. <i>Nano Letters</i> , 2007 , 7, 1489-94	11.5	373
642	A soft magnetic wire for sensor applications. <i>Journal Physics D: Applied Physics</i> , 1996 , 29, 939-949	3	331
641	A collaborative filtering approach to mitigate the new user cold start problem. <i>Knowledge-Based Systems</i> , 2012 , 26, 225-238	7.3	275
640	Analysis of the dependence of spin-spin correlations on the thermal treatment of nanocrystalline materials. <i>Physical Review B</i> , 1995 , 51, 3581-3586	3.3	219
639	Study of Heating Efficiency as a Function of Concentration, Size, and Applied Field in Fe ₂ O ₃ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 25602-25610	3.8	205
638	Interface double-exchange ferromagnetism in the Mn-Zn-O system: new class of biphasic magnetism. <i>Physical Review Letters</i> , 2005 , 94, 217206	7.4	201
637	Exchange interactions through amorphous paramagnetic layers in ferromagnetic nanocrystals. <i>Physical Review B</i> , 1994 , 49, 7064-7067	3.3	189
636	Giant magneto-impedance effect in nanostructured magnetic wires. <i>Journal of Applied Physics</i> , 1996 , 79, 1646-1654	2.5	175
635	A non negative matrix factorization for collaborative filtering recommender systems based on a Bayesian probabilistic model. <i>Knowledge-Based Systems</i> , 2016 , 97, 188-202	7.3	172
634	Collaborative filtering adapted to recommender systems of e-learning. <i>Knowledge-Based Systems</i> , 2009 , 22, 261-265	7.3	171
633	Ferromagnetism in fcc twinned 2.4 nm size Pd nanoparticles. <i>Physical Review Letters</i> , 2003 , 91, 237203	7.4	157
632	Improving collaborative filtering recommender system results and performance using genetic algorithms. <i>Knowledge-Based Systems</i> , 2011 , 24, 1310-1316	7.3	138
631	Iron exchange-field penetration into the amorphous interphase of nanocrystalline materials. <i>Physical Review B</i> , 1995 , 51, 3281-3284	3.3	137
630	Temperature, stress, and structural-relaxation dependence of the magnetostriction in (Co _{0.94} /BFe _{0.06}) ₇₅ /BSi ₁₅ B ₁₀ glasses. <i>Physical Review B</i> , 1987 , 35, 5066-5071	3.3	134
629	Colloidal synthesis and characterization of tetrapod-shaped magnetic nanocrystals. <i>Nano Letters</i> , 2006 , 6, 1966-72	11.5	132

628	Magnetoimpedance of metallic ferromagnetic wires. <i>Physical Review B</i> , 1998 , 57, 10699-10704	3.3	131
627	Origin of orbital ferromagnetism and giant magnetic anisotropy at the nanoscale. <i>Physical Review Letters</i> , 2006 , 96, 057206	7.4	130
626	Disordered Magnetism at the Grain Boundary of Pure Nanocrystalline Iron. <i>Physical Review Letters</i> , 1999 , 83, 2829-2832	7.4	123
625	Near-neighbor mixing and bond dilation in mechanically alloyed Cu-Fe. <i>Physical Review B</i> , 1996 , 54, 6929-6940	3.9	117
624	A collaborative filtering similarity measure based on singularities. <i>Information Processing and Management</i> , 2012 , 48, 204-217	6.3	113
623	Induced magnetic anisotropy and change of the magnetostriction by current annealing in Co-based amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1986 , 53, 323-329	2.8	112
622	Hysteresis shift in Fe-filled carbon nanotubes due to Fe. <i>Physical Review B</i> , 2002 , 65,	3.3	108
621	Giant magnetoimpedance in nonmagnetostrictive amorphous wires. <i>Physical Review B</i> , 1994 , 50, 16737-16740	3.9	107
620	Soft to hard magnetic anisotropy in nanostructured magnets. <i>Physical Review B</i> , 1998 , 58, 5193-5196	3.3	101
619	Integration of biomaterials implanted into abdominal wall: process of scar formation and macrophage response. <i>Biomaterials</i> , 1995 , 16, 381-7	15.6	99
618	Recommending items to group of users using Matrix Factorization based Collaborative Filtering. <i>Information Sciences</i> , 2016 , 345, 313-324	7.7	95
617	Surface plasmon resonance of capped Au nanoparticles. <i>Physical Review B</i> , 2005 , 72,	3.3	95
616	. <i>IEEE Transactions on Magnetics</i> , 1989 , 25, 3330-3332	2	94
615	Collaborative filtering based on significances. <i>Information Sciences</i> , 2012 , 185, 1-17	7.7	93
614	Metallic glasses and sensing applications. <i>Journal of Physics E: Scientific Instruments</i> , 1988 , 21, 1129-1139		91
613	Thermal dependence of coercivity in soft magnetic nanocrystals. <i>Physical Review B</i> , 1998 , 58, 366-370	3.3	90
612	Magnetic behavior of metastable fcc Fe-Cu after thermal treatments. <i>Physical Review B</i> , 1993 , 48, 7134-7139	3.3	90
611	Grain-boundary structure and magnetic behavior in nanocrystalline ball-milled iron. <i>Physical Review B</i> , 1997 , 56, 8894-8901	3.3	85

610	Magnetic properties and spin disorder in nanocrystalline materials. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 9455-9482	1.8	81
609	Evidence of spin disorder at the surface/core interface of oxygen passivated Fe nanoparticles. <i>Journal of Applied Physics</i> , 1998 , 84, 2189-2192	2.5	77
608	Influence of magnetization on the reordering of nanostructured ball-milled Fe-40 at. % Al powders. <i>Physical Review B</i> , 1998 , 58, R11864-R11867	3.3	77
607	A framework for collaborative filtering recommender systems. <i>Expert Systems With Applications</i> , 2011 , 38, 14609-14623	7.8	74
606	Magnetic Capsules for NMR Imaging: Effect of Magnetic Nanoparticles Spatial Distribution and Aggregation. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6257-6264	3.8	72
605	Interplay between the magnetic anisotropy contributions of cobalt nanowires. <i>Physical Review B</i> , 2009 , 80,	3.3	68
604	. <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 907-912	2	68
603	Modification of the saturation magnetostriction constant after thermal treatments for the Co 58 Fe 5 Ni 10 B 16 Si 11 amorphous ribbon. <i>Journal of Magnetism and Magnetic Materials</i> , 1983 , 37, 161-166	2.8	68
602	. <i>IEEE Transactions on Magnetics</i> , 1995 , 31, 781-790	2	67
601	Structural and magnetic properties of nanocrystalline Fe _{73.5} Co _x Si _{13.5} B ₉ CuNb ₃ alloys. <i>Physical Review B</i> , 2001 , 65,	3.3	66
600	Giant magnetic anisotropy at the nanoscale: Overcoming the superparamagnetic limit. <i>Physical Review B</i> , 2006 , 74,	3.3	65
599	A high-performance hysteresis loop tracer. <i>Journal of Applied Physics</i> , 1993 , 73, 6855-6857	2.5	65
598	Immunochemical determination of gluten in malts and beers. <i>Food Additives and Contaminants</i> , 2006 , 23, 1074-8		63
597	Magnetic properties of amorphous and devitrified FeSiBCuNb glass-coated microwires. <i>Scripta Materialia</i> , 1996 , 7, 823-834		63
596	Nanostructure and magnetic properties of the MnZnO system, a room temperature magnetic semiconductor?. <i>Nanotechnology</i> , 2005 , 16, 214-8	3.4	62
595	Magnetic and microstructural analysis of palladium nanoparticles with different capping systems. <i>Physical Review B</i> , 2006 , 73,	3.3	59
594	Stress-induced large Curie temperature enhancement in Fe ₆₄ Ni ₃₆ Invar alloy. <i>Physical Review B</i> , 2009 , 80,	3.3	58
593	Magnetic interactions in Fe-Zr-B-Cu nanocrystalline materials at elevated temperatures. <i>Physical Review B</i> , 1994 , 50, 6465-6467	3.3	58

592	Magnetic properties of Fe-based glass-coated microwires. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 170, 323-330	2.8	57
591	Invar effect in fcc-FeCu solid solutions. <i>Physical Review B</i> , 2004 , 69,	3.3	57
590	Magneto-impedance in glass-coated CoMnSiB amorphous microwires. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 724-728	2	55
589	Mössbauer Study of Iron-Containing Carbon Nanotubes. <i>Hyperfine Interactions</i> , 2002 , 139/140, 535-542	0.8	55
588	Macrophage response to experimental implantation of polypropylene prostheses. <i>European Surgical Research</i> , 1994 , 26, 46-53	1.1	55
587	Experiments concerning the origin of stress anneal induced magnetic anisotropy in metallic glass ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1985 , 46, 341-349	2.8	55
586	Magnetically Ordered fcc Structure at the Relaxed Grain Boundaries of Pure Nanocrystalline Fe. <i>Physical Review Letters</i> , 1998 , 81, 4500-4503	7.4	53
585	Electromagnetic Wave Absorbing Material Based on Magnetic Microwires. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 3934-3937	2	53
584	On the Role of Intergranular Exchange Coupling in the Magnetization Process of Permanent-Magnet Materials. <i>Europhysics Letters</i> , 1992 , 20, 175-180	1.6	53
583	Magnetic anisotropy in (Fe, Co) ₇₅ Si ₁₅ B ₁₀ and (Fe _{0.11} Co _{0.89}) ₇₂ Mo ₃ Si ₁₅ B ₁₀ metallic glass ribbons, induced by constant stress and constant strain annealing. <i>Journal of Magnetism and Magnetic Materials</i> , 1983 , 36, 73-80	2.8	53
582	Fe impurities weaken the ferromagnetic behavior in Au nanoparticles. <i>Physical Review Letters</i> , 2006 , 97, 177203	7.4	50
581	Boundary spin disorder in nanocrystalline FeRh alloys. <i>Physical Review B</i> , 1998 , 58, 5181-5184	3.3	50
580	Improving the magnetic heating by disaggregating nanoparticles. <i>Journal of Alloys and Compounds</i> , 2016 , 663, 636-644	5.7	49
579	Pegylated interferon {alpha}2a plus ribavirin versus pegylated interferon {alpha}2b plus ribavirin for the treatment of chronic hepatitis C in HIV-infected patients. <i>Journal of Antimicrobial Chemotherapy</i> , 2009 , 63, 1256-63	5.1	49
578	Magnetism in Polymers with Embedded Gold Nanoparticles. <i>Advanced Materials</i> , 2007 , 19, 875-877	2.4	49
577	Torsion dependence of the magnetization process in magnetostrictive amorphous wire. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 96, 321-328	2.8	49
576	Room-Temperature Ferromagnetism in Reduced Rutile TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2171-2176	6.4	48
575	Ferromagnetism in bulk Co-Zn-O. <i>Journal of Applied Physics</i> , 2006 , 100, 113909	2.5	48

574	Influence of order-disorder effects on the magnetic and optical properties of NiFe ₂ O ₄ nanoparticles. <i>Ceramics International</i> , 2018 , 44, 17290-17297	5.1	48
573	Resistivity changes of some amorphous alloys undergoing nanocrystallization. <i>Solid State Communications</i> , 1993 , 88, 75-80	1.6	47
572	Surface plasmon resonance and magnetism of thiol-capped gold nanoparticles. <i>Nanotechnology</i> , 2008 , 19, 175701	3.4	46
571	Magnetization reversal asymmetry in Fe/MgO(0 0 1) thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 210, 341-348	2.8	46
570	Giant magnetostriction of amorphous Tb _x Fe _{1-x} (0.10). <i>Physical Review B</i> , 1995 , 51, 297-304	3.3	46
569	Similarity in behavior of polytetrafluoroethylene (ePTFE) prostheses implanted into different interfaces. <i>Journal of Biomedical Materials Research Part B</i> , 1996 , 31, 1-9		46
568	Dynamic magnetostatic interaction between amorphous ferromagnetic wires. <i>Physical Review B</i> , 1996 , 54, 9903-9911	3.3	46
567	Long-term (4 years) efficacy of lopinavir/ritonavir monotherapy for maintenance of HIV suppression. <i>Journal of Antimicrobial Chemotherapy</i> , 2008 , 61, 1359-61	5.1	45
566	Gold and gold-iron oxide magnetic glyconanoparticles: synthesis, characterization and magnetic properties. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13021-8	3.4	45
565	Comment on "Mechanically driven alloying of immiscible elements". <i>Physical Review Letters</i> , 1993 , 70, 3521	7.4	45
564	Incorporating reliability measurements into the predictions of a recommender system. <i>Information Sciences</i> , 2013 , 218, 1-16	7.7	44
563	Ferromagnetism in Twinned Pt Nanoparticles Obtained by Laser Ablation. <i>Chemistry of Materials</i> , 2007 , 19, 889-893	9.6	44
562	Dependence of exchange anisotropy and coercivity on the Fe _x O _{1-x} structure in oxygen-passivated Fe nanoparticles. <i>Journal of Applied Physics</i> , 1999 , 85, 6118-6120	2.5	44
561	Ferromagnetic interactions in nanostructured systems with two different Curie temperatures. <i>Physical Review B</i> , 1996 , 53, 11656-11660	3.3	44
560	Giant magnetic hardening of a Fe-Zr-B-Cu amorphous alloy during the first stages of nanocrystallization. <i>Physical Review B</i> , 1996 , 53, 3392-3397	3.3	44
559	Tensile stress dependence of the Curie temperature and hyperfine field in Fe-Zr-B-(Cu) amorphous alloys. <i>Physical Review B</i> , 1996 , 54, 3026-3029	3.3	44
558	Applications of amorphous and nanocrystalline magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 215-216, 729-734	2.8	43
557	Particle Interactions in Liquid Magnetic Colloids by Zero Field Cooled Measurements: Effects on Heating Efficiency. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11022-11030	3.8	42

556	High-temperature induced ferromagnetism on Be precipitates in FeCu solid solutions. <i>Physical Review B</i> , 2005 , 72,	3.3	42
555	Superparamagnetic behavior and giant magnetoresistance in as-obtained Co-Ag metastable alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 138, 123-131	2.8	41
554	Magnetoelastic anisotropy in amorphous wires due to quenching. <i>Journal of Applied Physics</i> , 1991 , 70, 6525-6527	2.5	41
553	Revisiting magnetism of capped Au and ZnO nanoparticles: Surface band structure and atomic orbital with giant magnetic moment. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2352-2360	1.3	40
552	Extraordinary anisotropic magnetoresistance effect under 35 Oe field at room temperature in Co/Ni multilayers. <i>Applied Physics Letters</i> , 1995 , 67, 718-720	3.4	40
551	Correlation between structure and the magnetic properties of amorphous and nanocrystalline Fe _{73.5} Cu ₁ Nb ₃ Si _{22.5} B _x alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 133, 310-313	2.8	40
550	Co-Si-B and Fe-Co-B amorphous alloys: Induced anisotropy and various magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 1987 , 66, 37-44	2.8	40
549	Micromagnetics of twisted amorphous ribbons. <i>Physical Review B</i> , 1980 , 22, 2445-2449	3.3	40
548	High-temperature magnetic behavior of FeCo-based nanocrystalline alloys. <i>Physical Review B</i> , 2002 , 66,	3.3	39
547	Magnetism in nanoparticles: tuning properties with coatings. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 484006	1.8	38
546	A position sensor based on magnetoimpedance. <i>Journal of Applied Physics</i> , 1996 , 79, 6549	2.5	38
545	Interacting amorphous ferromagnetic wires: A complex system. <i>Journal of Applied Physics</i> , 1999 , 85, 2768-2774	3.8	38
544	Spinodal decomposition of Fe-Cu nanocrystals: Control of atomic-magnetic-moment and magnetic properties. <i>Physical Review B</i> , 1994 , 49, 13227-13230	3.3	38
543	Different kinds of magnetic anisotropies induced by current annealing in metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 1987 , 68, 151-156	2.8	38
542	Temperature dependence of the magnetostriction constant of nearly zero magnetostriction amorphous alloys. <i>Applied Physics Letters</i> , 1984 , 45, 802-804	3.4	38
541	Incorporating group recommendations to recommender systems: Alternatives and performance. <i>Information Processing and Management</i> , 2013 , 49, 895-901	6.3	37
540	Synthesis and characterization of FePt/Au core-shell nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e753-e755	2.8	37
539	Revised core-shell domain model for magnetostrictive amorphous wires. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 994-1002	2	37

538	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
537	Transverse demagnetizing factors of long rectangular bars: I. Analytical expressions for extreme values of susceptibility. <i>Journal of Applied Physics</i> , 2002 , 91, 5254-5259	2.5	36
536	An alternative approach to giant magnetoimpedance phenomena in amorphous ferromagnetic wires. <i>Journal of Applied Physics</i> , 1995 , 78, 5189-5191	2.5	36
535	Curie-temperature enhancement of ferromagnetic phases in nanoscale heterogeneous systems. <i>Physical Review B</i> , 1996 , 53, 8223-8226	3.3	35
534	. <i>IEEE Access</i> , 2018 , 6, 3549-3564	3.5	34
533	Electronic structure, magnetic properties, and microstructural analysis of thiol-functionalized Au nanoparticles: role of chemical and structural parameters in the ferromagnetic behaviour. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 179-192	2.3	34
532	Observation and characterization of ferromagnetic amorphous nickel. <i>Physical Review Letters</i> , 1996 , 76, 4833-4836	7.4	34
531	Effects of grain boundary width and crystallite size on conductivity and magnetic properties of magnetite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	33
530	A similarity metric designed to speed up, using hardware, the recommender systems k-nearest neighbors algorithm. <i>Knowledge-Based Systems</i> , 2013 , 51, 27-34	7.3	33
529	Hysteretic giant magneto impedance. <i>Journal of Applied Physics</i> , 1998 , 84, 5814-5816	2.5	33
528	Evolution from the vortex state to the critical state in a square-columnar Josephson-junction array. <i>Physical Review B</i> , 1996 , 53, 6579-6584	3.3	33
527	Short range order in (Fe, Co, Ni) ₇₅ Si ₁₅ B ₁₀ amorphous alloys determined from magnetic anisotropy. <i>Solid State Communications</i> , 1985 , 54, 1059-1063	1.6	33
526	Effects of bias field and driving current on the equivalent circuit response of magnetoimpedance in amorphous wires. <i>Journal Physics D: Applied Physics</i> , 1995 , 28, 2404-2410	3	32
525	Magnetostriction of amorphous (Co _{1-x} Fe _x) ₇₅ Si ₁₅ B ₁₀ ribbons (0 ≤ x ≤ 0.12) and its temperature dependence. <i>Solid State Communications</i> , 1984 , 52, 701-703	1.6	32
524	Tailoring of paramagnetic (structurally ordered) nanometric grains separated by ferromagnetic (structurally disordered) grain boundaries: Isolating grain-boundary magnetic effects. <i>Physical Review B</i> , 2001 , 63,	3.3	31
523	Soft and hard nanostructured magnetic materials. <i>Hyperfine Interactions</i> , 2000 , 130, 221-240	0.8	31
522	Giant magnetoimpedance effect in a positive magnetostrictive glass-coated amorphous microwire. <i>Physical Review B</i> , 2002 , 65,	3.3	30
521	Glass-coated Co-rich amorphous microwires with enhanced permeability. <i>Sensors and Actuators A: Physical</i> , 2000 , 81, 227-231	3.9	30

520	MFM imaging of FePd stripe domains. Evolution with Pt buffer layer thickness. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 23-25	2.8	30
519	On the conduction band polarization in metallic systems with a periodic array of localized magnetic moments. <i>Journal of Applied Physics</i> , 1996 , 79, 4815	2.5	30
518	Influence of the applied tensile stress on the magnetic properties of current annealed amorphous wires. <i>Journal of Applied Physics</i> , 1991 , 70, 6522-6524	2.5	30
517	The influence of the Pt buffer layer on the perpendicular magnetic anisotropy in epitaxial FePd(001) ordered alloys grown by sputtering. <i>Journal of Applied Physics</i> , 1997 , 81, 5050-5052	2.5	29
516	Structure and magnetism in the ZnMnD system: A candidate for room temperature ferromagnetic semiconductor. <i>Journal of the European Ceramic Society</i> , 2006 , 26, 3017-3025	6	29
515	Anisotropy, hysteresis, and morphology of self-patterned epitaxial Fe/MgO/GaAs films. <i>Physical Review B</i> , 2002 , 66,	3.3	29
514	Mn ⁴⁺ cation localization in La-rich La _{1-x} CaxMnOy manganites. <i>Physical Review B</i> , 2000 , 62, 11328-11331	3.3	29
513	Theory for coupling ferromagnets through paramagnetic layers: direct exchange coupling plus a magnetic pump mechanism. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 99, L12-L19	2.8	29
512	Influence of the Tensile Stress on the Magnetostriction Resistivity and Magnetic Anisotropy of Co-Rich Metallic Glasses. TSRO and CSRO Correlation. <i>Physica Scripta</i> , 1988 , T24, 11-21	2.6	29
511	High Frequency Hysteresis Losses on [FeO] and FeO Susceptibility as a Magnetic Stamp for Chain Formation. <i>Nanomaterials</i> , 2018 , 8,	5.4	29
510	Human Immunodeficiency Virus/Hepatitis C Virus Coinfection in Spain: Prevalence and Patient Characteristics. <i>Open Forum Infectious Diseases</i> , 2016 , 3, ofw059	1	28
509	Generalization of recommender systems: Collaborative filtering extended to groups of users and restricted to groups of items. <i>Expert Systems With Applications</i> , 2012 , 39, 172-186	7.8	28
508	Calcium atoms attached to mixed helium droplets: A probe for the H ₃ e-H ₄ e interface. <i>Physical Review B</i> , 2009 , 79,	3.3	28
507	Size dependence of coercivity in nanostructured soft alloys. <i>Physical Review B</i> , 2004 , 69,	3.3	28
506	Mössbauer spectroscopy in nanocrystalline Fe ₈₈ Zr ₇ B ₄ Cu ₁ . <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 145, 313-318	2.8	28
505	Unravelling the size distribution of social groups with information theory in complex networks. <i>European Physical Journal B</i> , 2010 , 76, 87-97	1.2	27
504	Large training effects in magnetic relaxation and anisotropic magnetoresistance in nanocrystalline exchange-biased Ni ₈₀ Fe ₂₀ /Co bilayers. <i>Physical Review B</i> , 2004 , 69,	3.3	27
503	Giant magnetoimpedance in amorphous Co _{83.2} Mn _{7.6} Si _{5.8} B _{3.3} microwires. <i>Physical Review B</i> , 2000 , 62, 6598-6602	3.3	27

502	. <i>IEEE Transactions on Magnetics</i> , 1990 , 26, 1798-1800	2	27
501	Absorption Spectrum of Na Atoms Attached to Helium Nanodroplets. <i>Journal of Low Temperature Physics</i> , 2010 , 158, 105-111	1.3	26
500	CF4J: Collaborative filtering for Java. <i>Knowledge-Based Systems</i> , 2018 , 152, 94-99	7.3	25
499	Stress and field contactless sensor based on the scattering of electromagnetic waves by a single ferromagnetic microwire. <i>Applied Physics Letters</i> , 2014 , 105, 092405	3.4	25
498	Thermal Evolution of Pt-Rich FePt/Fe ₃ O ₄ Heterodimers Studied Using X-ray Absorption Near-Edge Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5500-5508	3.8	25
497	Hysteresis loop shift in annealed FeCrSiB amorphous wires. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 212, 373-380	2.8	25
496	. <i>IEEE Transactions on Magnetics</i> , 1992 , 28, 2424-2426	2	25
495	. <i>IEEE Transactions on Magnetics</i> , 1990 , 26, 1403-1405	2	25
494	Magnetostriction and other magnetic properties of Co-Ni based amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1986 , 61, 390-394	2.8	25
493	High magnetomechanical coupling on magnetic microwire for sensors with biological applications. <i>Applied Physics Letters</i> , 2010 , 96, 262512	3.4	24
492	Coercivity in SmCo hard magnetic films for MEMS applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 1234-1236	2.8	24
491	Influence of nanocrystallization on the magneto-impedance effect in FeCuNbSiB amorphous wires. <i>IEEE Transactions on Magnetics</i> , 1995 , 31, 4009-4011	2	24
490	Circumferential permeability in nonmagnetostrictive amorphous wires. <i>Journal of Materials Research</i> , 1996 , 11, 2486-2489	2.5	24
489	Tensor components of the magnetization in a twisted Fe-rich amorphous wire. <i>Journal of Applied Physics</i> , 1994 , 75, 6952-6954	2.5	24
488	Influence of torsion on the magnetic properties of an amorphous ribbon. <i>Journal Physics D: Applied Physics</i> , 1979 , 12, 1943-1950	3	24
487	Gold nanoparticles generated in ethosome bilayers, as revealed by cryo-electron-tomography. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 3051-7	3.4	23
486	Enhanced magnetic properties of FeCo ribbons nanocrystallized in magnetic field. <i>Applied Physics Letters</i> , 2009 , 94, 122507	3.4	23
485	About the effect of pressure and volume expansion on the transition from antiferromagnetic to ferromagnetic state in some metal alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 174, 181-184	2.8	23

484	Spontaneous oxidation of disordered fcc FePt nanoparticles. <i>Journal of Applied Physics</i> , 2008 , 103, 103905	2.5	23
483	Thickness-dependent coercivity of ultrathin Co films grown on Cu(111). <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 7713-7719	1.8	23
482	A probabilistic model for recommending to new cold-start non-registered users. <i>Information Sciences</i> , 2017 , 376, 216-232	7.7	22
481	Unexpected ferromagnetic ordering enhancement with crystallite size growth observed in La _{0.5} Ca _{0.5} MnO ₃ nanoparticles. <i>Journal of Applied Physics</i> , 2014 , 116, 113901	2.5	22
480	The workings of the maximum entropy principle in collective human behaviour. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20120758	4.1	22
479	Influence of Cr additions in magnetic properties and crystallization process of amorphous iron based alloys. <i>Journal of Applied Physics</i> , 2002 , 92, 374-378	2.5	22
478	Eddy current damping of planar domain wall in bistable amorphous wires. <i>Applied Physics Letters</i> , 1993 , 63, 3518-3520	3.4	22
477	Magnetization of uniform Josephson junctions. <i>Physical Review B</i> , 1994 , 49, 465-474	3.3	22
476	Tensile-stress dependence of magnetostriction in multilayers of amorphous ribbons. <i>Physical Review B</i> , 1990 , 42, 6471-6475	3.3	22
475	Influence of the anisotropy on the BAMR method for measuring magnetostriction in amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1986 , 61, 39-47	2.8	22
474	Changes in the remanent magnetisation, magnetoelastic coupling and Young's modulus during structural relaxation of an amorphous ribbon. <i>Journal Physics D: Applied Physics</i> , 1983 , 16, 1999-2010	3	22
473	Anomalous eddy currents in magnetostrictive amorphous ferromagnets: A large contribution from magnetoelastic effects. <i>Journal of Magnetism and Magnetic Materials</i> , 1982 , 28, 109-116	2.8	22
472	A balanced memory-based collaborative filtering similarity measure. <i>International Journal of Intelligent Systems</i> , 2012 , 27, 939-946	8.4	21
471	A miniature dc current sensor based on magnetoimpedance. <i>Journal of Applied Physics</i> , 1997 , 81, 4301-4303	3.3	21
470	Evolution of the microstructure, chemical composition and magnetic behaviour during the synthesis of alkanethiol-capped gold nanoparticles. <i>Acta Materialia</i> , 2007 , 55, 1723-1730	8.4	21
469	Magneto-electrolysis of Co nanowire arrays grown in a track-etched polycarbonate membrane. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 312, 99-106	2.8	21
468	Magnetostriction influence on the giant magnetoimpedance effect: a key parameter. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 268, 309-314	2.8	21
467	Thermal dependence of the magnetization of antiferromagnetic copper(II) oxide nanoparticles. <i>Solid State Communications</i> , 2004 , 130, 247-251	1.6	21

- 466 Correlation between magnetic and transport properties in nanocrystalline Fe thin films: A grain-boundary magnetic disorder effect. *Physical Review B*, **2001**, 64, 3-3 21
- 465 Magnetic and transport eddy-current anomalies in cylinders with core-and-shell regions. *Journal of Magnetism and Magnetic Materials*, **1999**, 202, 385-396 2.8 21
- 464 Magnetic properties of two-phase nanocrystalline alloy determined by anisotropy and exchange interactions through amorphous matrix. *Journal of Magnetism and Magnetic Materials*, **1994**, 138, 270-280 2.8 21
- 463 Temperature dependence of magnetostriction in $[\text{Co}_{1-x}(\text{FeNi})_x]_{75}\text{Si}_{15}\text{B}_{10}$ amorphous alloys. *Journal of Magnetism and Magnetic Materials*, **1985**, 46, 317-320 2.8 21
- 462 Tuned scattering of Electromagnetic Waves by a Finite Length Ferromagnetic Microwire. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 1112-1115 4.9 20
- 461 Bias free magnetomechanical coupling on magnetic microwires for sensing applications. *Applied Physics Letters*, **2013**, 103, 142414 3.4 20
- 460 Zipf's law from a Fisher variational-principle. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2009**, 374, 18-21 2.3 20
- 459 Magnetic bistability of glass-covered Fe-rich amorphous microwire: influence of heating treatments and applied tensile stress. *Sensors and Actuators A: Physical*, **1997**, 59, 97-100 3.9 20
- 458 Room temperature permanent magnetism in thiol-capped Pd-rich nanoparticles. *Nanotechnology*, **2006**, 17, 1449-1453 3.4 20
- 457 High-frequency behavior of amorphous microwires and its applications. *Journal of Magnetism and Magnetic Materials*, **2005**, 290-291, 1597-1600 2.8 20
- 456 High-resolution magnetic imaging by local tunneling magnetoresistance. *Applied Physics A: Materials Science and Processing*, **2001**, 72, 463-470 2.6 20
- 455 Comment on Analysis of asymmetric giant magnetoimpedance in field-annealed Co-based amorphous ribbon [Appl. Phys. Lett. 75, 2114 (1999)]. *Applied Physics Letters*, **2000**, 77, 1727-1729 3.4 20
- 454 Coercivity analysis in sputtered SmCo thin films. *Journal of Applied Physics*, **1999**, 85, 6148-6150 2.5 20
- 453 Stress anneal induced magnetic anisotropy in $[\text{Co}_{1-x}(\text{Fe,Ni})_x]_{75}\text{Si}_{15}\text{B}_{10}$ metallic glass ribbons. *Journal of Magnetism and Magnetic Materials*, **1985**, 49, 124-130 2.8 20
- 452 Physico-Chemical Characteristics of Gold Nanoparticles. *Comprehensive Analytical Chemistry*, **2014**, 66, 81-152 1.9 19
- 451 Permanent magnetism in phosphine- and chlorine-capped gold: from clusters to nanoparticles. *Journal of Nanoparticle Research*, **2010**, 12, 1307-1318 2.3 19
- 450 A Mössbauer spectroscopy and magnetic study of FeRh. *Journal of Magnetism and Magnetic Materials*, **1998**, 177-181, 135-136 2.8 19
- 449 Spin-wave excitations in ribbon-shaped Fe nanoparticles. *Physical Review B*, **2004**, 69, 3-3 19

448	Metallic magnetic nanoparticles. <i>Scientific World Journal, The</i> , 2005 , 5, 972-1001	2.2	19
447	Development of a tensile-stress-induced anisotropy in amorphous magnetic thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 220, 152-160	2.8	19
446	Nature of the driving force on an Abrikosov vortex. <i>Physical Review B</i> , 1998 , 57, 5059-5062	3.3	19
445	A possible origin of colossal magnetoresistance in charge-ordered manganate La _{0.5} Ca _{0.5} MnO ₃ . <i>Solid State Communications</i> , 1999 , 111, 525-528	1.6	19
444	Creep-induced magnetic anisotropy in a Co-rich amorphous wire. <i>Journal of Applied Physics</i> , 1994 , 76, 5343-5348	2.5	19
443	. <i>IEEE Transactions on Magnetics</i> , 1991 , 27, 5241-5243	2	19
442	A system for simultaneous magnetic measurements and torsional creep. <i>Journal of Physics E: Scientific Instruments</i> , 1984 , 17, 813-816		19
441	Structural Ordering and Ferromagnetism in La ₄ Mn ₄ O ₁₁ . <i>Chemistry of Materials</i> , 2006 , 18, 5756-5763	9.6	18
440	Magnetic and hysteretic properties of Fe-filled nanotubes. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 2117-2119	2	18
439	Thermal dependence of magnetic properties in nanocrystalline FeSiBCuNb wires and microwires. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 203, 6-11	2.8	18
438	Flash annealing under stress in some Co-rich metallic glasses. <i>IEEE Transactions on Magnetics</i> , 1986 , 22, 1864-1867	2	18
437	Magnetostrictive torsional strain in transverse-field-annealed Metglas. <i>Physical Review B</i> , 1985 , 31, 4425-4432	3.9	18
436	Determination of gluten in glucose syrups. <i>Journal of Food Composition and Analysis</i> , 2009 , 22, 762-765	4.1	17
435	Relaxation times of colloidal iron platinum in polymer matrixes. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6381		17
434	Magnetoelastic behavior of glass-covered amorphous ferromagnetic microwire. <i>IEEE Transactions on Magnetics</i> , 1997 , 33, 2362-2365	2	17
433	High magnetostriction in low applied magnetic fields in amorphous Tb-Fe (hard)/Fe-B (soft) multilayers. <i>IEEE Transactions on Magnetics</i> , 1997 , 33, 3712-3714	2	17
432	Evolution of magnetic behaviour in oxygen deficient LaMnO ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 579-582	3.9	17
431	Magneto-volume effects in Fe ₂ Ti solid solutions. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 300, 229-233	2.8	17

430	Anisotropic polymer bonded hard-magnetic films for microelectromechanical system applications. <i>Journal of Applied Physics</i> , 2006 , 99, 08N303	2.5	17
429	The spin glass state of metastable fcc FeRh. <i>Europhysics Letters</i> , 1996 , 35, 307-312	1.6	17
428	Paramagnetic Meissner Effect and 0- π Josephson Junctions. <i>Europhysics Letters</i> , 1994 , 26, 365-370	1.6	17
427	Formation of nanocrystalline phases by crystallization of metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 133, 291-294	2.8	17
426	Stress dependence of magnetostriction in amorphous ferromagnets: its variation with temperature and induced anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 114, 75-81	2.8	17
425	Magnetic properties of mechanically alloyed Fe-Cu. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 124, 5-8	2.8	17
424	Radial stress distribution generated during rapid solidification of amorphous wires. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 2127-2132	1.8	17
423	Magnetostriction of the rapidly quenched Co ₈₀ Nb ₈ B ₁₂ alloy: Dependence on quenching rate, structural relaxation, and temperature. <i>Journal of Applied Physics</i> , 1987 , 61, 3228-3230	2.5	17
422	Magnetic Phase Diagram of Nanostructured Zinc Ferrite as a Function of Inversion Degree α . <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17472-17482	3.8	16
421	Polidocanol foam stability in terms of its association with glycerin. <i>Phlebology</i> , 2014 , 29, 304-9	2	16
420	MaxEnt and dynamical information. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	16
419	A logic approach to decision taking in a railway interlocking system using Maple. <i>Mathematics and Computers in Simulation</i> , 2011 , 82, 15-28	3.3	16
418	Approach to saturation and magnetic properties of melt-spun Fe ₇₀ Cu ₃₀ granular systems. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 173, 275-286	2.8	16
417	Reversal of exchange bias in nanocrystalline antiferromagnetic/ferromagnetic bilayers. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 10063-10074	1.8	16
416	Intergranular critical state in uniform Josephson junction arrays. <i>Physica C: Superconductivity and Its Applications</i> , 1995 , 250, 107-120	1.3	16
415	Magnetic properties of nanocrystalline Fe _{73.5} Cu ₁ Nb ₃ Si _{16.5} B ₆ . <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 433-434	2.8	16
414	Influence of the interfaces on the anisotropic magnetoresistance of Ni/Co multilayers. <i>Applied Physics Letters</i> , 1996 , 69, 2596-2598	3.4	16
413	Exchange Correlation Length and Magnetoresistance in Fe-Cu and Fe-Cu-Ni Melt-Spun Ribbons. <i>Europhysics Letters</i> , 1994 , 26, 701-706	1.6	16

412	Extended x-ray-absorption fine-structure studies of heat-treated fcc-Fe ₅₀ Cu ₅₀ powders processed via high-energy ball milling. <i>Journal of Applied Physics</i> , 1994 , 76, 6322-6324	2.5	16
411	Magnetic properties of slablike Josephson-junction arrays. <i>Physical Review B</i> , 1994 , 50, 13735-13743	3.3	16
410	Coatings for vascular prostheses: mesothelial cells express specific markers for muscle cells and have biological activity similar to that of endothelial cells. <i>European Journal of Vascular Surgery</i> , 1994 , 8, 531-6		16
409	Effects of current annealing on the hysteresis loop of amorphous alloys. <i>Journal Physics D: Applied Physics</i> , 1988 , 21, 162-167	3	16
408	Relaxation processes and pure shear stress creep in a metallic glass ribbon of composition (Fe _{0.05} Co _{0.95}) ₇₅ Si ₁₅ B ₁₀ . <i>Journal of Materials Science</i> , 1985 , 20, 2093-2102	4.3	16
407	Chemically synthesized Au@Fe ₃ O ₄ nanostructures with controlled optical and magnetic properties. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 035502	3	15
406	An algebraic approach to rule based expert systems. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2010 , 104, 19-40	1.6	15
405	Helium on planar and nanostructured alkali-metal surfaces. <i>Physical Review B</i> , 2009 , 79,	3.3	15
404	Magnetic and magnetoelastic behavior of mechanically alloyed FeRh compound. <i>Journal of Applied Physics</i> , 1997 , 81, 2315-2320	2.5	15
403	Ferromagnetism in a new manganese-related Brownmillerite: La _{0.5} Sr _{0.5} MnO _{2.5} . <i>Chemistry - A European Journal</i> , 2007 , 13, 4246-52	4.8	15
402	Ferromagnetic behaviour in semiconductors: a new magnetism in search of spintronic materials. <i>European Physical Journal B</i> , 2007 , 59, 457-461	1.2	15
401	Magnetic field driving custom assembly in (FeCo) nanocrystals. <i>Applied Physics Letters</i> , 2006 , 89, 033508	3.4	15
400	Spin-Glass-Like Behaviour in Nanocrystalline Fe. <i>Physica Status Solidi A</i> , 2002 , 189, 533-536		15
399	The frequency and stress dependence of giant magnetoimpedance in amorphous microwires. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 3257-3259	2	15
398	Anomalous asymmetric magneto-inductance in amorphous Co _{68.2} Fe _{4.3} Si _{12.5} B ₁₅ wire with shifted hysteresis loop. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 111-114	3	15
397	Magneto-mechanical rotation of magnetostrictive amorphous wires. <i>Applied Physics Letters</i> , 1999 , 75, 2117-2119	3.4	15
396	Structure-related induced anisotropy in metallic glasses. <i>Physical Review B</i> , 1989 , 39, 11950-11955	3.3	15
395	Synthesis of hybrid magneto-plasmonic nanoparticles with potential use in photoacoustic detection of circulating tumor cells. <i>Mikrochimica Acta</i> , 2018 , 185, 130	5.8	14

- 394 Hybrid nanoparticles for magnetic and plasmonic hyperthermia. *Physical Chemistry Chemical Physics*, **2018**, 20, 24065-24073 3.6 14
- 393 Trees for explaining recommendations made through collaborative filtering. *Information Sciences*, **2013**, 239, 1-17 7.7 14
- 392 Stair-like Metamagnetic Transition Induced by Controlled Introduction of Oxygen Deficiency in La_{0.5}Ca_{0.5}MnO₃. *Chemistry of Materials*, **2012**, 24, 2519-2526 9.6 14
- 391 Exotic magnetic anisotropy map in epitaxial La_{0.7}Ca_{0.3}MnO₃ films on BaTiO₃. *Physical Review B*, **2011**, 84, 3.3 14
- 390 Grand Canonical Monte Carlo study of argon adsorption in aluminium nanopores. *Molecular Physics*, **2011**, 109, 2787-2796 1.7 14
- 389 sp magnetism in clusters of gold thiolates. *New Journal of Physics*, **2012**, 14, 013064 2.9 14
- 388 Fisher information and the thermodynamics of scale-invariant systems. *Physica A: Statistical Mechanics and Its Applications*, **2010**, 389, 490-498 3.3 14
- 387 Role of calcium ions as doped-hole attractors in destabilizing charge-ordered states in Mn perovskites. *Physical Review B*, **2001**, 64, 3.3 14
- 386 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
- 385 Correlation between the magneto-impedance and ferromagnetic resonance responses in nanocrystalline microwires. *IEEE Transactions on Magnetics*, **2000**, 36, 3445-3447 2 14
- 384 Transmission electron microscopy investigation of the microstructure of rapidly quenched Co₈₀B₂₀ alloys. *Journal of Applied Physics*, **1999**, 85, 7609-7615 2.5 14
- 383 Magnetic properties of Cu-doped porous silica gels: A possible Cu ferromagnet. *Physical Review B*, **1993**, 47, 570-573 3.3 14
- 382 Exchange interactions and coercivity in multi-phase magnets. *Journal of Magnetism and Magnetic Materials*, **1992**, 117, 154-162 2.8 14
- 381 Synthesis and characterization of FePt nanoparticles by high energy ball milling with and without surfactant. *Journal of Alloys and Compounds*, **2012**, 536, S13-S16 5.7 13
- 380 Stress-induced Curie temperature increase in the Fe₆₄Ni₃₆ invar alloy. *Physica Status Solidi - Rapid Research Letters*, **2009**, 3, 115-117 2.5 13
- 379 Microwave attenuation with composite of copper microwires. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 1505-1510 2.8 13
- 378 Calculated magnetocrystalline anisotropy of a FePd ordered alloy: Electron-density dependence on the direction of magnetization. *Physical Review B*, **2001**, 63, 3.3 13
- 377 Effects of magnetostatic interaction on the magnetization processes in Fe_{73.5}Cu₁Nb₃Si_{13.5}B₉ nanocrystalline wires. *Journal Physics D: Applied Physics*, **2002**, 35, 508-511 3 13

376	Magnetic anisotropy and magnetostriction in an Fe-rich amorphous film: Analysis of the cantilever method. <i>Physical Review B</i> , 1998 , 57, 7458-7461	3.3	13
375	Influence of Nanocrystalline Structure on the Magnetic Properties of Wires and Microwires. <i>Textures and Microstructures</i> , 1999 , 32, 245-267		13
374	Exchange biasing in ferromagnetic amorphous wires: A controllable micromagnetic configuration. <i>Applied Physics Letters</i> , 1999 , 74, 1305-1307	3.4	13
373	Structure and magnetic anisotropies of epitaxial FePd (001) and (110) alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 203, 162-164	2.8	13
372	Magnetic properties of Fe _x Cu _{1-x} solid solutions. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 85-86	2.8	13
371	Interface formed between visceral peritoneum and experimental polypropylene or polytetrafluoroethylene abdominal wall implants. <i>Journal of Materials Science: Materials in Medicine</i> , 1996 , 7, 331-336	4.5	13
370	Influence of the preparation conditions on the magnetic properties and electrical resistivity of Fe _{73.5} Nb ₃ Cu ₁ Si _{13.5} B ₉ nanocrystalline alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 133, 314-316	2.8	13
369	Critical exponents of the magnetostriction in amorphous alloys. <i>Physica Status Solidi (B): Basic Research</i> , 1986 , 133, 167-170	1.3	13
368	The initial Matteucci effect. <i>Journal Physics D: Applied Physics</i> , 1975 , 8, 833-840	3	13
367	Liquid pressure wireless sensor based on magnetostrictive microwires for applications in cardiovascular localized diagnostic. <i>AIP Advances</i> , 2015 , 5, 087132	1.5	12
366	Hierarchical graph maps for visualization of collaborative recommender systems. <i>Journal of Information Science</i> , 2014 , 40, 97-106	2	12
365	Effect of accompanying antiretroviral drugs on virological response to pegylated interferon and ribavirin in patients co-infected with HIV and hepatitis C virus. <i>Journal of Antimicrobial Chemotherapy</i> , 2011 , 66, 2843-9	5.1	12
364	Magnetic and structural properties of electrodeposited CoNiP amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 177-181, 119-120	2.8	12
363	Influence of the Synthetic Pathway on the Properties of Oxygen-Deficient Manganese-Related Perovskites. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 3350-3355	2.3	12
362	Circular magnetization and susceptibility of an ideal soft ferromagnetic wire. <i>Measurement Science and Technology</i> , 2004 , 15, 365-370	2	12
361	Interface exchange coupling in a system of Co nanocrystals highly diluted in an amorphous matrix: Thermal dependence of coercivity. <i>Physical Review B</i> , 2002 , 65,	3.3	12
360	Glass coated microwires with enhanced coercivity. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 203, 54-56	2.8	12
359	Structure and magnetic anisotropies in sputtered FePd(110) thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 206, 1-7	2.8	12

358	Enthalpies of B2 antiferro-ferromagnetic and metastable fcc-B2 transformations in FeRh. <i>Solid State Communications</i> , 1996 , 100, 57-60	1.6	12
357	Improvement of the tissue integration of a new modified polytetrafluoroethylene prosthesis: Mycro Mesh. <i>Biomaterials</i> , 1996 , 17, 1265-71	15.6	12
356	Fluctuations of the saturation magnetostriction constant in amorphous ferromagnets. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 1885-1890	1.8	12
355	Helical anisotropy induced by annealing in metglas 2826. <i>Journal of Magnetism and Magnetic Materials</i> , 1983 , 31-34, 1553-1554	2.8	12
354	Structural relaxation of Co-P amorphous alloys. <i>Physical Review B</i> , 1985 , 32, 5102-5106	3.3	12
353	Magnetic Sensor for Early Detection of Heart Valve Bioprotheses Failure. <i>Sensor Letters</i> , 2007 , 5, 263-266	9	12
352	Surface Ferromagnetism in Pr _{0.5} Ca _{0.5} MnO ₃ Nanoparticles as a Consequence of Local Imbalance in Mn ³⁺ :Mn ⁴⁺ Ratio. <i>Chemistry of Materials</i> , 2018 , 30, 7138-7145	9.6	12
351	Colossal heating efficiency via eddy currents in amorphous microwires with nearly zero magnetostriction. <i>Scientific Reports</i> , 2020 , 10, 602	4.9	11
350	A simple vibrating sample magnetometer for macroscopic samples. <i>Review of Scientific Instruments</i> , 2018 , 89, 034707	1.7	11
349	Low temperature magnetic behaviour of glass-covered magnetic microwires with gradient nanocrystalline microstructure. <i>Journal of Applied Physics</i> , 2014 , 115, 033903	2.5	11
348	Tuning Metamaterials by using Amorphous Magnetic Microwires. <i>Scientific Reports</i> , 2017 , 7, 9394	4.9	11
347	Tuning the magnetic properties of pure hafnium by high pressure torsion. <i>Acta Materialia</i> , 2017 , 123, 206-213	8.4	11
346	A Gröner bases-based rule based expert system for fibromyalgia diagnosis. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2012 , 106, 443-456	1.6	11
345	Magnetism induced by capping of non-magnetic ZnO nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 5595-5602	2.3	11
344	Glass-Coated Fe ₇₀ Ni ₁₀ Cu ₂₀ Microwires with High Coercivity. <i>Physica Status Solidi A</i> , 1997 , 162, R5-R6		11
343	Magnetic hysteresis in glass-covered and water-quenched amorphous wires. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 177-181, 205-206	2.8	11
342	Thermal dependence of coercivity in magnetic nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 177-181, 959-961	2.8	11
341	Ligand Exchange in Gold-Coated FePt Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2816-2819		11

340	Magnetic structure and electronic study of complex oxygen-deficient manganites. <i>Chemistry - A European Journal</i> , 2008 , 14, 9038-45	4.8	11
339	Comment on "bosons as the origin for giant magnetic properties of organic monolayers". <i>Physical Review Letters</i> , 2006 , 96, 029703; discussion 029704	7.4	11
338	MAGNETIC PROPERTIES OF ORGANIC COATED GOLD SURFACES. <i>Modern Physics Letters B</i> , 2007 , 21, 303-319	1.6	11
337	Materials for spintronic: Room temperature ferromagnetism in ZnMnD interfaces. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 304, 75-78	2.8	11
336	Room-temperature CMR in manganites with 50% Mn ⁴⁺ by generation of cationic vacancies. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1748-1750	2.8	11
335	Magnetic interactions in nanocrystalline FeRh alloys studied by in field Mössbauer spectroscopy. <i>Journal of Alloys and Compounds</i> , 2000 , 308, 21-29	5.7	11
334	Giant magnetoimpedance effect in amorphous CoMnSiB microwire. <i>Journal of Alloys and Compounds</i> , 2001 , 326, 201-204	5.7	11
333	Electron-microscope study of the formation and further crystallization of noncrystalline nickel. <i>Physical Review B</i> , 1998 , 58, 89-92	3.3	11
332	Magnetic properties of Fe _{76.5} Cu ₁ Nb _x Si _{13.5} B ₉ alloys nanocrystallized from amorphous state. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 160, 269-270	2.8	11
331	Modeling the influence of intergranular phases on the hysteretic behavior of hard magnetic polycrystals. <i>Journal of Applied Physics</i> , 1993 , 73, 6943-6945	2.5	11
330	EXAFS study of short-range order in (Fe _x Co _{1-x}) ₇₅ Si ₁₅ B ₁₀ metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 1992 , 151, 51-58	3.9	11
329	Superparamagnetic response of zinc ferrite incrustated nanoparticles. <i>Journal of Alloys and Compounds</i> , 2015 , 637, 443-448	5.7	10
328	Space-time correlations in urban sprawl. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20130930	4.1	10
327	Magnetometry and electron paramagnetic resonance studies of phosphine- and thiol-capped gold nanoparticles. <i>Journal of Applied Physics</i> , 2010 , 107, 064303	2.5	10
326	An accelerated-time microscopic simulation of a dedicated freight double-track railway line. <i>Mathematical and Computer Modelling</i> , 2010 , 51, 1160-1169		10
325	Density of magnetic poles in amorphous ferromagnetic wires: An example of weak chaos. <i>Journal of Applied Physics</i> , 1997 , 81, 5725-5727	2.5	10
324	Sensor applications based on induced magnetic anisotropy in toroidal cores. <i>Sensors and Actuators A: Physical</i> , 1997 , 59, 101-104	3.9	10
323	Critical-state calculation using arbitrary functional J _c and annealing effect on sintered YBa ₂ Cu ₃ O _{7-δ} superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 1997 , 274, 39-47	1.3	10

322	Mössbauer spectroscopy evidence of a spinodal mechanism for the thermal decomposition of f.c.c. FeCu. <i>Acta Materialia</i> , 1998 , 46, 4161-4166	8.4	10
321	Influence of the Capping Molecule on the Magnetic Behavior of Thiol-Capped Gold Nanoparticles. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2768-2771	2	10
320	High-temperature anti-Invar behavior of ϵ -Fe precipitates in FeCu _{100-x} solid solutions: Ferromagnetic phases. <i>Physical Review B</i> , 2005 , 72,	3.3	10
319	New viscosimeter based on the ac field induced rotation of magnetostrictive amorphous wires. <i>Sensors and Actuators A: Physical</i> , 2001 , 91, 112-115	3.9	10
318	Axial-field-dependent circular susceptibility in Fe-rich amorphous wires. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 237, 17-21	2.8	10
317	Magnetic hardening during the amorphous to nanocrystalline transformation in FeSiBCuNb alloys: theoretical considerations. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 221-223	2.8	10
316	Anisotropy, magnetostriction and local chemical order in amorphous Tb Fe _{1-x} (0.1 Journal of Magnetism and Magnetic Materials, 1996 , 157-158, 501-503	2.8	10
315	Structural Evolution during Milling of Diluted Solid Solutions of Fe-Cu. <i>Materials Science Forum</i> , 1996 , 235-238, 553-558	0.4	10
314	Effect of the hard magnetic inclusion on the macroscopic anisotropy of nanocrystalline magnetic materials. <i>Journal of Applied Physics</i> , 1993 , 73, 6525-6527	2.5	10
313	Atherogenic effects of cyclosporine in an experimental model of arterial autograft. <i>Transplantation</i> , 1995 , 60, 407-14	1.8	10
312	Amorphous soft magnetic materials: magnetostriction and induced anisotropies. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 101, 6-10	2.8	10
311	Exchange-field penetration into a tunnel barrier: Spin selection in electron tunneling from a paramagnet to a ferromagnet. <i>Physical Review B</i> , 1992 , 45, 3117-3118	3.3	10
310	Amorphous magnetism: the role of anisotropy and magnetostriction distributions. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 73-76	2.8	10
309	Magnetic anisotropies induced by current annealing and their dependence on annealing temperature. <i>Physica Status Solidi A</i> , 1989 , 113, 187-192		10
308	A new, simple measurement of the magnetostriction constant in metallic glass ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1986 , 59, 333-345	2.8	10
307	Permanent Magnetism in Thiol Capped Nanoparticles Gold and ZnO. <i>Acta Physica Polonica A</i> , 2008 , 113, 515-520	0.6	10
306	Magnetoresistance and Ferromagnetism in Disordered LaCu _{0.5} Mn _{0.5} O ₃ Perovskite. <i>Chemistry of Materials</i> , 2013 , 25, 2100-2108	9.6	9
305	Multi-criteria Recommendations through Preference Learning 2017 ,		9

304	A Groebner bases-based approach to backward reasoning in rule based expert systems. <i>Annals of Mathematics and Artificial Intelligence</i> , 2009 , 56, 297-311	0.8	9
303	Enhancement of anisotropic magnetoresistance in Ni thin films by Co impurity layers. <i>Physical Review B</i> , 1997 , 56, 14076-14081	3.3	9
302	High-temperature large diamagnetism in ball-milled Sr _{0.6} Ca _{0.4} CuO ₂ . <i>Physical Review B</i> , 1997 , 56, 7800-7803	3.9	9
301	Structural properties and temperature dependence of coercivity of DC Joule-heated Fe ₈₆ Zr ₇ B ₆ Cu ₁ ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 169, 303-313	2.8	9
300	Hyperfine fields and Fe magnetic moments in Fe-Rh alloys; a Mössbauer spectroscopy study. <i>Journal of Alloys and Compounds</i> , 1998 , 278, 60-68	5.7	9
299	Origin of Room Temperature Magnetism in Thin (ZnO) _{1-x} (MnO ₂) _x Films and ZnO/MnO ₂ Multilayers. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 7667-7671	1.4	9
298	Magnetic properties of ball milled Cu ₇₀ Fe ₁₅ Mn ₁₅ . <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 602-605	2.8	9
297	Exchange interaction through amorphous intergranular layers in a two-phase system. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 3255-3265	1.8	9
296	Thermally activated demagnetization in Co/Ni multilayers involving discrete identifiable stages. <i>Applied Physics Letters</i> , 1999 , 75, 847-849	3.4	9
295	Magnetic dynamic hysteresis of a resistively shunted Josephson-junction array. <i>Physical Review B</i> , 1994 , 50, 10342-10345	3.3	9
294	Bending stresses and bistable behavior in Fe-rich amorphous wire. <i>Journal of Applied Physics</i> , 1994 , 75, 5791-5793	2.5	9
293	Size Dependent Ferromagnetic-Like Behavior in Thiol Capped Gold Nanoparticles. <i>Science of Advanced Materials</i> , 2009 , 1, 241-248	2.3	9
292	Formation of a magnetite/hematite epitaxial bilayer generated with low energy ion bombardment. <i>Applied Physics Letters</i> , 2017 , 110, 093103	3.4	8
291	Optical Resonances of Colloidal Gold Nanorods: From Seeds to Chemically Thiolated Long Nanorods. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7856-7864	3.8	8
290	On the stability of AuFe alloy nanoparticles. <i>Nanotechnology</i> , 2014 , 25, 215703	3.4	8
289	Outstanding Atomic Order in RuddlesdenPopper Oxide Microcrystals. <i>Chemistry of Materials</i> , 2015 , 27, 1397-1404	9.6	8
288	Variational principle underlying scale invariant social systems. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	8
287	Scale-invariance underlying the logistic equation and its social applications. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 176-180	2.3	8

286	A Polynomial Model for Logics with a Prime Power Number of Truth Values. <i>Journal of Automated Reasoning</i> , 2011 , 46, 205-221	1	8
285	Thermodynamics of urban population flows. <i>Physical Review E</i> , 2012 , 86, 066105	2.4	8
284	X-ray-absorption spectroscopy study of the partial devitrification of amorphous Ni ₈₀ B ₂₀ and the formation of amorphous nickel. <i>Physical Review B</i> , 1997 , 56, 5039-5041	3.3	8
283	Nanocrystalline FeSiBNbCu alloys: Differences between mechanical and thermal crystallization process in amorphous precursors. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 199-202	5.7	8
282	Magnetic transition in nanocrystalline soft magnetic alloys analyzed via ac inductive techniques. <i>Physical Review B</i> , 2004 , 70,	3.3	8
281	A Hole-Attractor Model: Tailoring Manganese-Related Perovskites. <i>Chemistry of Materials</i> , 2003 , 15, 2864-2866	9.6	8
280	Low temperature dynamical magnetic behaviour in nanocrystalline Fe. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 1478-1480	2.8	8
279	Influence of film morphology on perpendicular magnetic anisotropy. <i>Physical Review B</i> , 2001 , 64,	3.3	8
278	Thermal dependence of coercivity in Co-based nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 221, 172-177	2.8	8
277	Magnetic coupling and spin disorder in Co and Fe nanocrystalline ferromagnets. <i>Journal of Non-Crystalline Solids</i> , 2001 , 287, 256-267	3.9	8
276	Reply to Comment on Grain-boundary structure and magnetic behavior in nanocrystalline ball-milled iron. <i>Physical Review B</i> , 1999 , 59, 14788-14789	3.3	8
275	Structural and magnetic properties of mechanically alloyed (Fe _x Cu _{1-x}) ₉₃ Zr ₇ (x = 0.5, 0.7) solid solutions. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 214-215	2.8	8
274	Static critical phenomena in ball milled (Fe _{0.74} Cu _{0.26}) ₈₅ Zr ₁₅ amorphous alloy. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 5671-5680	1.8	8
273	Contrast Modulations During Decomposition of Fe-Cu Alloys. <i>Europhysics Letters</i> , 1995 , 32, 585-588	1.6	8
272	Circumferential magnetization processes in CoFeBSi wires. <i>Journal of Applied Physics</i> , 1996 , 79, 6539	2.5	8
271	Magnetic properties of Fe ₈₆ Zr ₇ Cu ₁ B ₆ at elevated temperatures. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 160, 247-248	2.8	8
270	On the Antiferromagnetism of Fe-Rh. <i>Materials Science Forum</i> , 1996 , 235-238, 675-684	0.4	8
269	Co-doped ferrite single domains and the effect of metallic nano-inclusions. <i>Applied Physics Letters</i> , 1996 , 69, 2761-2763	3.4	8

268	The Influence of Distributions of Internal Stresses and Magnetostriction on the Magnetization Curve of Amorphous Alloys. <i>Physica Status Solidi A</i> , 1991 , 125, 657-669		8
267	Influence of structural relaxation on the magnetic behaviour of a metallic glass. <i>Journal Physics D: Applied Physics</i> , 1985 , 18, L41-L47	3	8
266	Effect of preparation methods on magnetic properties of stoichiometric zinc ferrite. <i>Journal of Alloys and Compounds</i> , 2020 , 849, 156353	5.7	8
265	Calculating the Exploitation Costs of Trains in the Spanish Railways. <i>Computing in Science and Engineering</i> , 2013 , 15, 89-95	1.5	7
264	A logic-algebraic approach to decision taking in a railway interlocking system. <i>Annals of Mathematics and Artificial Intelligence</i> , 2012 , 65, 317-328	0.8	7
263	Magnetic interactions and anisotropy in amorphous TbFe films. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 165, 414-416	2.8	7
262	Adsorption potentials for nonplanar geometries. <i>Physical Review B</i> , 2007 , 76,	3.3	7
261	Palladium nanoparticles obtained by mechanical milling. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 1201-1205	1.6	7
260	Anomalous large circular susceptibility in nanocrystalline Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ wires. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 241, 179-182	2.8	7
259	Disordered Magnetism at the Grain Boundary of Pure Nanocrystalline Iron. <i>Materials Science Forum</i> , 2002 , 386-388, 447-454	0.4	7
258	AC field-induced rotation of magnetostrictive wires: operating principle for field positioning microrotor sensors. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 2791-2793	2	7
257	Thermoremanence anomaly in Fe-Zr(B,Cu) Invar metallic glasses: Volume expansion induced ferromagnetism. <i>Physical Review B</i> , 2000 , 61, 3219-3222	3.3	7
256	Applications of Amorphous and Nanocrystalline Magnetic Materials as Sensing Elements. <i>Materials Science Forum</i> , 1998 , 269-272, 1033-1042	0.4	7
255	Milling time influence in the formation of the spin-glass character in the grain boundary of Fe ₅₀ Rh ₅₀ nanograins. <i>Scripta Materialia</i> , 1999 , 11, 81-87		7
254	Magnetic and structural properties of as-milled and heat-treated bcc-Fe ₇₀ Cu ₃₀ alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 150, 409-416	2.8	7
253	AC magnetization analyses in iron-rich amorphous wires. <i>Journal Physics D: Applied Physics</i> , 1995 , 28, 1022-1030	3	7
252	Effects of creep-induced anisotropy on circumferential magnetization in non-magnetostrictive wires. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 163, 132-136	2.8	7
251	Nanocrystallization reactions in the fabrication of Fe ₁₄ Nd ₂ B + Fe hard-soft magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 164, L7-L12	2.8	7

250	Lower critical field and surface barrier in sintered Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ superconductor. <i>Journal of Applied Physics</i> , 1994 , 75, 2578-2583	2.5	7
249	Free electron polarization in a ferro-paramagnet thin bilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 99, L20-L24	2.8	7
248	Influence of the structural rearrangements on the stress sensitivity of magnetostriction in a Co-rich amorphous alloy. <i>Physical Review B</i> , 1992 , 46, 3401-3404	3.3	7
247	Coercivity of crystallized melt-spun Nd ₁₅ Dy _x Fe ₇₆ B ₉ (x = 3, 6, 9, 12, 15). <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 1179-1181	2.8	7
246	. <i>IEEE Transactions on Magnetics</i> , 1990 , 26, 1415-1417	2	7
245	The magnetization process in twisted amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1980 , 15-18, 1537-1538	2.8	7
244	Memory-endowed US cities and their demographic interactions. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20141185	4.1	6
243	Using Hierarchical Graph Maps to Explain Collaborative Filtering Recommendations. <i>International Journal of Intelligent Systems</i> , 2014 , 29, 462-477	8.4	6
242	Magnetoelastic coupling in La _{0.7} Ca _{0.3} MnO ₃ /BaTiO ₃ ultrathin films. <i>Physical Review B</i> , 2013 , 88,	3.3	6
241	Magnetoresistance in La _{0.5} Sr _{0.5} MnO _{2.5} . <i>Chemistry - A European Journal</i> , 2011 , 17, 2709-15	4.8	6
240	Direct measurements of the correlation between reentrant ferromagnetism and lattice expansion in FeCuZr alloys. <i>Physical Review B</i> , 2010 , 82,	3.3	6
239	Fluorescence emission of Ca-atom from photodissociated Ca ₂ in Ar doped helium droplets. II. Theoretical. <i>Journal of Chemical Physics</i> , 2012 , 137, 184311	3.9	6
238	Nucleation-controlled vortex entry in a square-columnar Josephson-junction array. <i>Physical Review B</i> , 1997 , 56, 2364-2367	3.3	6
237	Glass-coated hard-magnetic Fe - Co - Cr microwires. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, L573-L576	5.6	6
236	Curie temperature enhancement of ferromagnetic phases in nanoscale heterogeneous systems. <i>Scripta Materialia</i> , 1997 , 9, 459-462		6
235	An Electron-Attractor Model: FM Nanoclusters Responsible for Magnetoresistant Behavior in Ca-Rich La _{1-x} Ca _x MnO ₃ . <i>Chemistry of Materials</i> , 2008 , 20, 3398-3403	9.6	6
234	Sensor system for early detection of heart valve bioprostheses failure. <i>Sensors and Actuators A: Physical</i> , 2008 , 142, 511-519	3.9	6
233	Exchange Coupling in Iron and Iron/Oxide Nanogranular Systems. <i>Nanostructure Science and Technology</i> , 2005 , 217-238	0.9	6

232	Influence of Mn ²⁺ in the magnetic behaviour of manganese related-perovskites. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 571-574	3.9	6
231	Magnetic behaviour of Pd nanoparticles. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 3670-3672		6
230	Influence of current annealing, stress, torsion and dc magnetic field on Matteucci effect in amorphous wires. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 304-306, 1055-1057	5.3	6
229	Applications of amorphous samples presenting high magnetomechanical coupling during the first stages of nanocrystallisation process. <i>Sensors and Actuators A: Physical</i> , 2001 , 91, 218-222	3.9	6
228	Magnetoelastic sensor as a probe for muscular activity: An in vivo experiment. <i>Sensors and Actuators A: Physical</i> , 2001 , 91, 99-102	3.9	6
227	Magnetic properties in granular Co ₁₀ Cu ₉₀ alloys: the effect of random anisotropy and interparticle interactions. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 1856-1858	2.8	6
226	Magnetic anisotropies in single and multilayered thin films grown by bowed-substrate sputtering. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 3968-3974	2	6
225	Structural and magnetic properties of mechanically alloyed (Fe _{0.5} Mn _{0.5}) _x Cu _{100-x} nanocrystalline compounds. <i>Journal of Non-Crystalline Solids</i> , 2001 , 287, 268-271	3.9	6
224	Forced magnetostriction in FeZr-based amorphous alloys. <i>Applied Physics Letters</i> , 1998 , 73, 2509-2511	3.4	6
223	Influence of the configurational degeneracy on the hysteretic behavior of a system of magnetostatically coupled magnetic moments. <i>Journal of Applied Physics</i> , 1998 , 83, 7393-7395	2.5	6
222	Matteucci and inverse Wiedemann effects in amorphous wires with enhanced circumferential domains. <i>Journal of Applied Physics</i> , 1999 , 85, 5450-5452	2.5	6
221	Magneto-resistance in glass-coated Fe ₈₀ Ni ₂₀ microwires. <i>Journal of Applied Physics</i> , 1999 , 85, 4474-4476	2.5	6
220	Mössbauer analysis of phase distribution in Fe ₇₀ Cu ₃₀ and Fe ₇₀ Cu ₂₀ Ni ₁₀ granular melt spun ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 361-362	2.8	6
219	Dependence of magnetic losses in Fe _{73.5} Cu ₁ Nb ₃ Si _{16.5} B ₆ on annealing temperature. <i>Journal of Applied Physics</i> , 1993 , 73, 6618-6619	2.5	6
218	Magnetization of symmetric 0-π Josephson junctions. <i>Physical Review B</i> , 1994 , 50, 10107-10116	3.3	6
217	Magnetic hardening mechanisms in Nd-Fe-B nanocrystalline material. <i>Journal of Applied Physics</i> , 1994 , 76, 1124-1130	2.5	6
216	Arterial autografts and PTFE vascular microprostheses: similarities in the healing process. <i>European Journal of Vascular Surgery</i> , 1994 , 8, 694-702		6
215	Cold-rolling-induced changes in the activation energy spectrum of a metallic glass. <i>Journal Physics D: Applied Physics</i> , 1984 , 17, L147-L150	3	6

214	Inverse Wiedemann effect in iron whiskers. <i>IEEE Transactions on Magnetics</i> , 1977 , 13, 1511-1513	2	6
213	Microwave Power Absorption by Microwires Under Tensile Stress. <i>Sensor Letters</i> , 2009 , 7, 232-235	0.9	6
212	Giant magneto-impedance effect in stress-annealed amorphous ribbons. <i>European Physical Journal Special Topics</i> , 1998 , 08, Pr2-143-Pr2-146		6
211	Development of a Telemetric System for Postoperative Follow-up of Vascular Surgery Procedures: In Vitro Model. <i>Journal of the American Heart Association</i> , 2016 , 5,	6	6
210	Optimization of tunable GHz micro-antennas based on Giant magnetoimpedance. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 469, 289-295	2.8	6
209	Giant diamagnetism of gold nanorods. <i>New Journal of Physics</i> , 2014 , 16, 073043	2.9	5
208	Optimal Route Finding and Rolling-Stock Selection for the Spanish Railways. <i>Computing in Science and Engineering</i> , 2012 , 14, 82-89	1.5	5
207	Fluorescence emission of Ca-atom from photodissociated Ca ₂ in Ar-doped helium droplets. I. Experimental. <i>Journal of Chemical Physics</i> , 2012 , 137, 184310	3.9	5
206	Infrared Absorption and Emission Spectrum of Electron Bubbles Attached to Linear Vortices in Liquid 4He. <i>Journal of Low Temperature Physics</i> , 2010 , 158, 397-403	1.3	5
205	Ferro/antiferromagnetic interactions and the Fermi density of states: A thermopower study. <i>Journal of Applied Physics</i> , 1997 , 81, 3887-3889	2.5	5
204	Soft-hard magnetic composite wires obtained by a modified current annealing technique. <i>Journal of Applied Physics</i> , 1997 , 82, 5871-5873	2.5	5
203	Effect of Co impurity layers on the AMR enhancement of Ni thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 177-181, 1293-1295	2.8	5
202	Magnetic behaviour of nanocrystalline Fe. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 177-181, 939-940	2.8	5
201	Helium in polygonal nanopores at zero temperature: Density functional theory calculations. <i>Physical Review B</i> , 2008 , 77,	3.3	5
200	Magnetism of two-phase magnetic systems composed of nanograins embedded in an amorphous matrix. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 71-78	5.3	5
199	Crystallization and magnetic hardening of SmCo thin films. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 786-789	3.9	5
198	Influence of mechanical grinding on the structure and magnetic properties of FeCuNbSiB material. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, E1131-E1133	2.8	5
197	Magneto-impedance response in ring shaped amorphous wires. <i>Sensors and Actuators A: Physical</i> , 2001 , 91, 207-209	3.9	5

196	Stray field fluctuations in soft-hard nanostructured materials: Its influence on the shift of minor hysteresis loops. <i>Physical Review B</i> , 2001 , 63,	3.3	5
195	Low Temperature Magnetic Properties of FCC FeRh Obtained by Ball Milling. <i>Materials Science Forum</i> , 1998 , 269-272, 133-138	0.4	5
194	Dynamic and static shielding in a resistively shunted Josephson junction array. <i>Physica C: Superconductivity and Its Applications</i> , 1995 , 244, 123-128	1.3	5
193	Torsional mode magnetoelastic resonance in ferromagnetic amorphous wire. <i>Journal of Applied Physics</i> , 1995 , 77, 5819-5827	2.5	5
192	Giant magnetoelastic effects in amorphous ribbons by exciting standing torsional waves. <i>Applied Physics Letters</i> , 1983 , 43, 799-801	3.4	5
191	Magnetization process in twisted uniaxial polycrystals. <i>Journal of Magnetism and Magnetic Materials</i> , 1979 , 12, 96-101	2.8	5
190	Variation of polycrystalline Ni magnetostriction with temperature up to T _c . <i>Journal Physics D: Applied Physics</i> , 1981 , 14, 913-920	3	5
189	Influence of Ni-substitution on magnetic properties of annealed FeNiNbCuSiB alloys. <i>European Physical Journal Special Topics</i> , 1998 , 08, Pr2-111-Pr2-114		5
188	An algebraic model for implementing expert systems based on the knowledge of different experts. <i>Mathematics and Computers in Simulation</i> , 2015 , 107, 92-107	3.3	4
187	Onset of room temperature ferromagnetism by plastic deformation in three paramagnetic pure metals. <i>Scripta Materialia</i> , 2016 , 118, 41-45	5.6	4
186	Scattering of Microwaves by a Passive Array Antenna Based on Amorphous Ferromagnetic Microwires for Wireless Sensors with Biomedical Applications. <i>Sensors</i> , 2019 , 19,	3.8	4
185	Colloidal Nanoparticle Clusters to produce large FePt nanocrystals. <i>Materials and Design</i> , 2017 , 113, 391-396	3.96	4
184	An approach from answer set programming to decision making in a railway interlocking system. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2014 , 108, 973-987	1.6	4
183	Temperature dependence of the coercive field of gas atomized Fe _{73.5} Si _{13.5} B ₉ Nb ₃ Cu ₁ . <i>Journal of Alloys and Compounds</i> , 2012 , 536, S300-S303	5.7	4
182	Spatial fluctuations of magnetostriction in a nanostructured system. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 186, 283-287	2.8	4
181	The influence of thermal annealing on the structural and magnetic properties of gold nanoparticles. <i>Solid State Communications</i> , 2007 , 142, 676-679	1.6	4
180	Temperature dependence of the magnetic properties in LaMnO ₃ +□ <i>Journal of Applied Physics</i> , 2006 , 99, 08A702	2.5	4
179	Temperature dependence of the hysteretic properties in SmCo films. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, E833-E835	2.8	4

178	Thermal stability and crystallization behavior of Fe ₇₇ Co ₅ B ₄ (AlGa) ₃ (PSi) ₁₁ metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 297-301	5.3	4
177	Temperature dependence of the magnetization processes in Co/Al oxide/Permalloy trilayers. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 2957-2959	2	4
176	Hysteresis and relaxation of hard/soft nanocomposite samples. <i>Journal of Applied Physics</i> , 2000 , 87, 4759-4761	4.7	4
175	Field and temperature dependence of magnetization in FeCu-based amorphous alloys. <i>Physical Review B</i> , 2000 , 61, 14346-14349	3.3	4
174	Long-term evaluation of the behavior of a polytetrafluoroethylene microprosthesis in the rat iliac artery: myointimal regression. <i>Journal of Reconstructive Microsurgery</i> , 1998 , 14, 251-8	2.5	4
173	Grain-boundary magnetic properties of ball-milled nanocrystalline Fe ₈₀ Rh ₂₀ alloys. <i>Journal of Applied Physics</i> , 1999 , 86, 2166-2172	2.5	4
172	Magnetic behaviour during the first crystallisation stages in Co-B amorphous alloys: a test of the exchange penetration through interfaces. <i>Scripta Materialia</i> , 1999 , 11, 783-788		4
171	Symmetry of trapped-field profiles in square columnar Josephson-junction arrays. <i>Physical Review B</i> , 1995 , 51, 16440-16443	3.3	4
170	Cyclosporin A delays the presentation of intimal hyperplasia in an experimental model of arterial autograft. <i>European Surgical Research</i> , 1996 , 28, 39-48	1.1	4
169	A critical current sensor based on the Matteucci effect of a toroidal Fe-rich amorphous wire. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 160, 194-196	2.8	4
168	Influence of the Crystallisation Process in the Magnetic Properties of (Fe,Co)SiB(CuNb) Alloys. <i>Materials Science Forum</i> , 1996 , 235-238, 743-748	0.4	4
167	Magnetic anisotropy induced by nanocrystallization of a coated amorphous alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 131, 183-188	2.8	4
166	Measurement of magnetostriction and induced magnetic anisotropy by SAMR method in Co-rich stress + field annealed amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 101, 35-36	2.8	4
165	High resolution direct magnetostriction measurements of nearly-zero magnetostriction amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 110, 129-134	2.8	4
164	Reversible and irreversible magnetization in long Josephson junctions. <i>Solid State Communications</i> , 1993 , 88, 563-566	1.6	4
163	Induced magnetic anisotropy in Co-Si-B amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1990 , 83, 168-170	2.8	4
162	Magnetostriction behavior of Co-Fe-Si-B amorphous alloys. <i>Journal of Applied Physics</i> , 1990 , 67, 4984-4985	4.5	4
161	Comparison of FePt and Pt Nanostructures for Oxygen Reduction Reaction in Basic Medium. <i>Electrocatalysis</i> , 2016 , 7, 262-268	2.7	3

160	Clustering strategies for optimal trial selection in multisensor environments. An eigenvector based approach. <i>Journal of Neuroscience Methods</i> , 2014 , 222, 1-14	3	3
159	Measurement of the magnetic permeability of amorphous magnetic microwires by using their antenna resonance. <i>Review of Scientific Instruments</i> , 2017 , 88, 124704	1.7	3
158	Microwire composite electromagnetic parameters extraction by waveguide measurements at X-band. <i>Journal of Electromagnetic Waves and Applications</i> , 2014 , 28, 202-213	1.3	3
157	Magnetism, microstructure and First Principles calculations of atomized and annealed Ni ₃ Al. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S645-S647	5.7	3
156	FePt magnetic particles prepared by surfactant-assisted ball milling. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 343, 228-233	2.8	3
155	Two dimensional electron gas confined over a spherical surface: Magnetic moment. <i>Journal of Physics: Conference Series</i> , 2011 , 292, 012005	0.3	3
154	A new algebraic model for implementing expert systems represented under the Concept-Attribute-Value paradigm. <i>Mathematics and Computers in Simulation</i> , 2011 , 82, 29-43	3.3	3
153	Hole and electron attractor model: An explanation of clustered states in manganites. <i>Progress in Solid State Chemistry</i> , 2010 , 38, 38-45	8	3
152	Showing the non-existence of solutions in systems of linear Diophantine equations. <i>Mathematics and Computers in Simulation</i> , 2009 , 79, 3211-3220	3.3	3
151	Magnetic relaxation in single-crystal Co/Cu(100) superlattices. <i>Physical Review B</i> , 1997 , 55, 11080-11083	3.3	3
150	Coexistence of three structural and magnetic states of Fe in rapidly quenched samples: epitaxy effects in granular solids. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 187, 117-124	2.8	3
149	Magnetic interactions in FeBa hexaferrite nanocomposite materials. <i>Journal of Applied Physics</i> , 1998 , 83, 6277-6279	2.5	3
148	A system simulating representation change phenomena while problem solving. <i>Mathematics and Computers in Simulation</i> , 2008 , 78, 89-106	3.3	3
147	On the Effect of Nanocrystallization and Disorder on the Magnetic Properties of Cu-Rich, FeMnCu Alloys. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 610-617	1.3	3
146	Thermal evolution of magnetization reversal processes in trained and non-trained nanocrystalline exchange biased Ni ₈₀ Fe ₂₀ /Co bilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1905-1906	2.8	3
145	Two routes to disorder in a system with competitive interactions. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 242-245, 879-881	2.8	3
144	Spin-dependent scattering in nanocrystalline Fe:GMR. <i>Physica B: Condensed Matter</i> , 2002 , 322, 318-322	2.8	3
143	Influence of thermal annealing on magnetoimpedance in glass-covered Co ₈₅ Si ₁₀ Mn microwires. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 249, 333-336	2.8	3

142	Electronic transport in nanocrystalline iron: a low T magnetoresistance effect. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 262, 1-5	2.8	3
141	Magnetic Microwires: Manufacture, Properties, and Applications 2004 , 1-9		3
140	Influence of measuring temperature in size dependence of coercivity in nanostructured alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 171-174	2.8	3
139	Magnetostrictive thin films prepared by RF sputtering. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 823-825	2.8	3
138	Effects of reduced dimensionality on the magnetic properties of ultrathin (Co/Cu)[111] films. <i>Journal of Applied Physics</i> , 2001 , 89, 7150-7152	2.5	3
137	Nanocrystalline Ball Milled fcc-FeRh Alloys. <i>Materials Science Forum</i> , 2000 , 343-346, 787-792	0.4	3
136	Exchange penetration and anisotropy magnetoresistance in Co-Ni multilayers. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, 637-642	3	3
135	The critical state of thin SQUID arrays. <i>Europhysics Letters</i> , 1998 , 41, 413-418	1.6	3
134	Influence of Various Heat Treatments on Giant Magnetoimpedance Effect in Nanocrystalline FeSiBNbCu Ribbons. <i>Textures and Microstructures</i> , 1999 , 32, 269-279		3
133	Ferroantiferromagnetic crossover without volume changes in GdPt _{1-x} Cu _x compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 770-772	2.8	3
132	Magnetic properties of disordered grain boundaries in nanocrystalline FeRh alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 203, 223-225	2.8	3
131	Magnetic anisotropy peculiarities of Gd/Co films near the magnetic compensation state. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 203, 295-297	2.8	3
130	Nanocrystalline Sm-Co-Cu(Ni) thin films with giant coercivity. <i>Scripta Materialia</i> , 1999 , 12, 1161-1166		3
129	Modeling of the magnetoimpedance response in low-magnetostriction amorphous wires. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 160, 241-242	2.8	3
128	Surface barrier and lower critical field of the powdered Pr _{1.85} Ce _{0.15} CuO _{3.98} superconductor. <i>Physical Review B</i> , 1996 , 53, 5160-5162	3.3	3
127	Magnetic properties of recrystallized amorphous Fe ₇₆ Si ₁₂ B ₁₂ and Fe ₈₀ B ₂₀ ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 112, 299-301	2.8	3
126	Intergranular microstructure-coercive field relationship in Nd ₁₆ Fe ₇₆ B ₈ alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 119, 289-293	2.8	3
125	Stress-Forced Magnetoresistance in Near-Zero Magnetostrictive Metallic Glasses. <i>Physica Status Solidi A</i> , 1990 , 119, 595-600		3

- 124 Dependence of magnetoelastic effects in Ni samples on temperature. *Journal of Applied Physics*, **1981**, 52, 1451-1454 2.5 3
- 123 Torsional elastic behaviour in Metglass Fe₄₀Ni₄₀P₁₄B₆. *Journal Physics D: Applied Physics*, **1981**, 14, 2243-2246 3
- 122 Effect of Annealing Temperature on Magnetic After-Effect in FeCuNbSiB Alloys. *European Physical Journal Special Topics*, **1996**, 06, C8-549-C8-552 3
- 121 Cobalt Ferrite Co_xFe_{3-x}O₄ (0.4 European Physical Journal Special Topics, **1997**, 07, C1-327-C1-328 3
- 120 STRESS AND MAGNETIC FIELD DEPENDENCES OF THE SATURATION MAGNETOSTRICTION IN Co-RICH AMORPHOUS ALLOYS. *Journal De Physique Colloque*, **1988**, 49, C8-1333-C8-1334 3
- 119 REINFORCED MAGNETIC ANISOTROPY INDUCED BY STRESS-FIELD ANNEALING AND ITS DEPENDENCE ON PREANNEALING CONDITIONS IN Co-RICH METALLIC GLASSES. *Journal De Physique Colloque*, **1988**, 49, C8-1335-C8-1336 3
- 118 Boosting the Tunable Microwave Scattering Signature of Sensing Array Platforms Consisting of Amorphous Ferromagnetic FeCoSiB Microwires and Its Amplification by Intercalating Cu Microwires. *Nanomaterials*, **2021**, 11, 5-4 3
- 117 Short range order fluctuations and itinerant ferromagnetism in Ni₃Al. *Solid State Communications*, **2015**, 201, 111-114 1.6 2
- 116 Diagnosis in Tennis Serving Technique. *Algorithms*, **2020**, 13, 106 1.8 2
- 115 A recommender system for train routing: When concatenating two minimum length paths is not the minimum length path. *Applied Mathematics and Computation*, **2018**, 319, 486-498 2.7 2
- 114 Experimental Evidence of the Origin of Nanophase Separation in Low Hole-Doped Colossal Magnetoresistant Manganites. *Nano Letters*, **2016**, 16, 760-5 11.5 2
- 113 Comparison and improvements of LCMV and MUSIC source localization techniques for use in real clinical environments. *Journal of Neuroscience Methods*, **2012**, 205, 312-23 3 2
- 112 A geometric approach to the estimation of radial railway network improvement. *Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas*, **2012**, 106, 35-46 1.6 2
- 111 Influence of electrodes on the 448 kHz electric currents created by radiofrequency: A finite element study. *Electromagnetic Biology and Medicine*, **2017**, 36, 306-314 2.2 2
- 110 Pressure effects on the magnetic properties of FeCuZr studied by x-ray magnetic circular dichroism: Evidence of weakening of ferromagnetism in FeCuZr alloys. *Applied Physics Letters*, **2012**, 101, 022412 3.4 2
- 109 Complex solvation of Mg atoms in 4He nanodroplets. *Journal of Physics: Conference Series*, **2009**, 150, 032003 0.3 2
- 108 Magnetostriction in heterogeneous nanocrystalline materials. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1997**, 76, 441-446 2
- 107 Polymer Bonded Anisotropic Thick Hard Films for Micromotors/Microgenerators. *Journal of Iron and Steel Research International*, **2006**, 13, 240-251 1.2 2

106	Magnetic field influence on nanocrystallization process of FeCoSiBCuNb alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 1271-1276	1.6	2
105	Strain-inhomogeneity effect on magnetization and low-temperature resistivity of epitaxial Fe(001) thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 268, 24-28	2.8	2
104	Mössbauer Study of Fe x Mn _{0.65} Al _{0.35} Disordered Alloys Series. <i>Hyperfine Interactions</i> , 2002 , 141/142, 415-418	0.8	2
103	Variation of the magnetic properties of La _{0.5} Ca _{0.5} MnO as a function of the synthetic route. <i>Solid State Ionics</i> , 2001 , 141-142, 427-432	3.3	2
102	On the B2 -fcc transformation of FeRh during deformation. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2000 , 80, 1779-1793		2
101	Magnetic properties of strip-like Josephson-junction arrays. <i>Superconductor Science and Technology</i> , 2000 , 13, 920-929	3.1	2
100	Dipolar interactions in hard-soft nanocomposites. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 3342-3344	2	2
99	Magnetic interactions in melt spun CoCu system. <i>European Physical Journal Special Topics</i> , 1998 , 08, Pr2-343-Pr2-346		
98	Phi 0/2 vortices in a defect-containing Josephson-junction array. <i>Physical Review B</i> , 1995 , 52, R9859-R9862		2
97	A new type of polytetrafluoroethylene prosthesis (Mycro Mesh): an experimental study. <i>Journal of Materials Science: Materials in Medicine</i> , 1996 , 7, 475-478	4.5	2
96	Bifurcations in highly magnetostrictive amorphous wires. <i>Journal of Applied Physics</i> , 1996 , 79, 9231-9235	2.5	2
95	Low-temperature magnetization measurements and magnetostriction of (Fe _{80-x} R _x)B ₂₀ (R = Y, Ce, Nd, Sm, Gd, Dy, Ho, Er, Tm, Lu) (0) <i>Journal of Magnetism and Magnetic Materials</i> , 1990 , 86, 219-224	2.8	2
94	On the second-order elastic effects in amorphous ribbons under torsion. <i>Journal Physics D: Applied Physics</i> , 1984 , 17, L127-L132	3	2
93	The influence of the torsional strain and the azimuthal field on the inverse Wiedemann effect for iron whiskers. <i>Journal Physics D: Applied Physics</i> , 1980 , 13, 1713-1718	3	2
92	The inverse Wiedemann effect for low torsional stress. <i>Journal Physics D: Applied Physics</i> , 1978 , 11, 2401-2408	2	2
91	Magnetostatic determination of variations of internal stress in magnetic steels. <i>AIP Advances</i> , 2020 , 10, 115302	1.5	2
90	Magnon-mediated magnetoresistance in layered manganites. <i>Physical Review B</i> , 2019 , 99,	3.3	2
89	Time-dependent AC magnetometry and chain formation in magnetite: the influence of particle size, initial temperature and the shortening of the relaxation time by the applied field. <i>Nanoscale Advances</i> ,	5.1	2

88	A New Algebraic Approach to Decision Making in a Railway Interlocking System Based on Preprocess. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-14	1.1	2
87	Possibilities of RutasOptiRed Package. <i>Procedia, Social and Behavioral Sciences</i> , 2014 , 160, 102-111		1
86	Surprising resistivity decrease in manganites with constant electronic density. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 484002	1.8	1
85	Coercivity and its thermal dependence in microsized magnetic particles: Influence of grain boundaries. <i>Journal of Applied Physics</i> , 2013 , 113, 043909	2.5	1
84	New methods for proving the impossibility to solve problems through reduction of problem spaces. <i>Annals of Mathematics and Artificial Intelligence</i> , 2009 , 57, 205-231	0.8	1
83	Formation of perovskite-type compounds $\text{La}_{0.5}\text{Ca}_{0.5}\text{Mn}_{1-x}\text{Ti}_x\text{O}_3$ ($0 \leq x \leq 0.5$). <i>Journal of Alloys and Compounds</i> , 1997 , 252, L26-L28	5.7	1
82	Formation and magnetic properties of compounds $\text{Er}(\text{Fe}_{1-x}\text{Co}_x)_{11.35}\text{Nb}_{0.65}$ ($0 \leq x \leq 0.4$). <i>Journal of Alloys and Compounds</i> , 1997 , 252, L32-L34	5.7	1
81	Exchange Interaction in Multiphase Systems 1997 , 609-618		1
80	Temperature and Time Dependence of AC Susceptibility and Resistivity of Perovskite-Type Compounds $(\text{La}_{1-x}\text{Sm}_x)_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ ($x = 0, 0.1$). <i>Physica Status Solidi A</i> , 1997 , 161, 445-449		1
79	HELIUM IN PORES AND IRREGULAR SURFACES. <i>International Journal of Modern Physics B</i> , 2008 , 22, 4338-4345	4.4	1
78	EXAFS Studies and Magnetic Behavior of FeCuZr Ball-Milled Alloys. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 3887-3890	2	1
77	An Approach to Representation Changes While Executing Problem Solver Intelligent Systems 2007 ,		1
76	Influence of the structural disorder on the paramagnetic susceptibility of Pd. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 357-358	2.8	1
75	Influence of Co addition on the magnetic and thermal stability behavior of $\text{Fe}_{77-x}\text{Co}_x\text{Al}_{2.14}\text{P}_{8.4}\text{C}_{5.4}\text{B}_{4.0}\text{Ga}_{0.86}\text{Si}_{2.6}$ amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, E1153-E1154	2.8	1
74	Magnetization reversal in textured Fe nanoparticles having different aspect ratios. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 479-481	2.8	1
73	Thermally activated demagnetization in $(\text{La}_{0.97}\text{Ca}_{0.03})_{0.96}\text{Mn}_{0.96}\text{O}_3$. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 482-485	2.8	1
72	Some open problems related to the link between structure, morphology and extrinsic magnetic properties in layered nanostructures. <i>Physica B: Condensed Matter</i> , 2001 , 299, 270-279	2.8	1
71	Magnetization reversal and anisotropy in CoO/permalloy/Cu/permalloy/NiO layered structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 1764-1766	2.8	1

70	Circular magnetization and susceptibility of an ideal soft ferromagnetic strip. <i>Measurement Science and Technology</i> , 2002 , 13, 946-949	2	1
69	Induced magnetoelastic anisotropy in FeB/CoSiB and FeB/Cu/CoSiB thin films. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 2912-2914	2	1
68	Thermal Decomposition of Mechanically Alloyed (FexCu1-x)93Zr7 (x=0.5, 0.7) Solid Solutions. <i>Materials Science Forum</i> , 2000 , 343-346, 800-805	0.4	1
67	Structure of Thermal Treated Mechanically Alloyed Fe50Cu50 Studied by Anomalous Diffraction and EXAFS Spectroscopy. <i>Materials Science Forum</i> , 1998 , 269-272, 479-484	0.4	1
66	Anisotropic Magnetoresistance in Co-Ni Multilayers and Giant Magnetoimpedance Effect in Amorphous Wires. <i>Materials Science Forum</i> , 1999 , 302-303, 254-262	0.4	1
65	Del Bianco et al. Reply:. <i>Physical Review Letters</i> , 1999 , 82, 4151-4151	7.4	1
64	Magnetic relaxation in Co/Ni multilayers with different bilayer thickness: an example of non-Arrhenius behavior. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 99-100	2.8	1
63	Effect of cobalt nanoclusters on magnetization processes in Co ₂ B amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 175-176	2.8	1
62	Correlation between thermal expansion and magnetic behavior in cold deformed Fe ₂ Al alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 240-242	2.8	1
61	Magnetic and structural properties of nanocrystalline Fe ₇₇ B ₁₉ Cu ₁ Nb ₃ alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 133, 306-309	2.8	1
60	Magnetoresistance of paramagnetic metallic layers sandwiched between ferromagnetic layers. <i>Journal of Applied Physics</i> , 1991 , 70, 5861-5863	2.5	1
59	. <i>IEEE Transactions on Magnetics</i> , 1992 , 28, 2769-2771	2	1
58	Inverse magnetostrictive effect and spin-polarized scanning tunneling microscopy: a way to measure local surface magnetoelastic coupling. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 118, 28-32	2.8	1
57	Mechanism of magnetization reversal in amorphous ribbons under stress. <i>Physica Status Solidi A</i> , 1980 , 61, K107-K110		1
56	Coexistence of antiferro- and ferrimagnetism in the spinel ZnFe ₂ O ₄ with an inversion degree α lower than 0.3. <i>Ceramics International</i> , 2022 ,	5.1	1
55	Unveiling the Hidden Entropy in ZnFeO.. <i>Materials</i> , 2022 , 15,	3.5	1
54	Density of States and Indirect Exchange in Metallic Systems. <i>Acta Physica Polonica A</i> , 1996 , 90, 1227-1234.	0.6	1
53	Magnetostriction in Amorphous Ferromagnets. <i>NATO ASI Series Series B: Physics</i> , 1991 , 387-392		1

52	An algebraic approach to rule based expert systems 2010 , 104, 19		1
51	Magnetism of Soft Nanocrystalline Materials 1994 , 703-711		1
50	Collaborative Filtering Based on Choosing a Different Number of Neighbors for Each User 2010 , 317-330		1
49	Direct and inverse spin Hall effects: Zeeman energy. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 500, 166369	2.8	1
48	Magnetic detection of high mechanical stress in iron-based materials using eddy currents and phase shift measurements. <i>Journal of Applied Physics</i> , 2021 , 129, 243901	2.5	1
47	A New Approach to Shortest Route Finding in a Railway Network with Two Track Gauges and Gauge Changeovers. <i>Mathematical Problems in Engineering</i> , 2019 , 2019, 1-16	1.1	1
46	Low Temperature Magnetic Properties of Nanocrystalline Iron. <i>Lecture Notes in Physics</i> , 2002 , 152-163	0.8	1
45	Magnetic properties of the compounds $\text{Er}_{1-x}\text{Nd}_x\text{Fe}_{11.35}\text{Nb}_{0.65}$ ($0 \leq x \leq 0.5$). <i>Journal of Alloys and Compounds</i> , 1998 , 265, 23-25	5.7	0
44	Magnetization fluctuations in random anisotropy ferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1347-1350	2.8	0
43	New experimental procedure for measuring volume magnetostriction on powder samples. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 618-620	2.8	0
42	Magnetic Hysteresis 2001 , 4780-4787		0
41	An algebraic approach for detecting nearly dangerous situations in expert systems. <i>Mathematics and Computers in Simulation</i> , 2016 , 129, 81-93	3.3	
40	Revisiting four-valued logics from Maple using the Logics Explorer package. <i>Mathematics and Computers in Simulation</i> , 2014 , 104, 31-42	3.3	
39	Note: On the study of metal/oxide hybrid ferromagnets with magneto-optical techniques. <i>Review of Scientific Instruments</i> , 2017 , 88, 086102	1.7	
38	Correlation between anomalous temperature thermoremanence dependence measurements and thermal dilation in FeCuZr alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S386-S388	5.7	
37	Magnetoelastic coupling in strained $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3//\text{BaTiO}_3$ Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1587, 1		
36	The Logics Explorer: a Maple package for exploring finite many-valued propositional logics. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2011 , 105, 323-337	1.6	
35	On the existence of solutions in systems of linear Diophantine equations. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2011 , 105, 223-245	1.6	

- 34 HELIUM ON NANOPATTERNED SURFACES AT FINITE TEMPERATURE. *International Journal of Modern Physics B*, **2010**, 24, 4915-4922 1.1
- 33 XANES experimental evidence of double exchange in ferromagnetic Mn₂N₂O. *Advances in Applied Ceramics*, **2009**, 108, 263-266 2.3
- 32 A technique for dynamically measuring and modifying relevance while problem solving. *Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas*, **2009**, 103, 111-124 1.6
- 31 Anomalous low temperature stair like coercivity decrease due to magnetostatic coupling between superconducting and ferromagnetic particles in mixed powders. *Journal of Applied Physics*, **2012**, 112, 013912 2.5
- 30 Two vortices in square-columnar Josephson-junction arrays. *Physical Review B*, **1997**, 55, 8102-8105 3.3
- 29 Mossbauer spectroscopy studies in supersaturated Fe/sub x/Co/sub 50-x/Cu/sub 50/ solid solutions. *IEEE Transactions on Magnetics*, **1997**, 33, 3733-3735 2
- 28 Influence of Fe-Co Nanoinclusions on the Magnetic Behavior of Fe-Co Ferrites **1997**, 395-399
- 27 Spin-wave excitations in nanocrystalline Fe particles. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 1604-1606 2.8
- 26 Magnetic and Mossbauer characterization of (Fe_{0.5}Cu_{0.5})_{100-x}Zr_x alloys. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 1357-1359 2.8
- 25 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
- 24 Anomalous thermal dependence of low field magnetization in amorphous Co₈₀B₂₀ and Co₇₅B₂₅. *Physica B: Condensed Matter*, **2001**, 299, 230-235 2.8
- 23 Layer thickness and magnetic relaxation properties in sputtered Co/Ni multilayers. *Journal of Magnetism and Magnetic Materials*, **2001**, 226-230, 1792-1794 2.8
- 22 Rotational aftereffect of single domain particles. *IEEE Transactions on Magnetics*, **2001**, 37, 2064-2066 2
- 21 Mechanically Alloyed (Fe_{0.5}Cu_{0.5})_{100-x}Zr_x Alloys. *Materials Science Forum*, **2002**, 386-388, 175-180 0.4
- 20 Domain Structure and Thermal Dependence of the Coercive Field in Nanocrystalline FeZrBCu. *Materials Research Society Symposia Proceedings*, **2000**, 644, 741
- 19 A general expression for Josephson penetration depth in junction arrays. *Physica C: Superconductivity and Its Applications*, **2000**, 341-348, 2731-2732 1.3
- 18 Demagnetizing effects on the critical state in Josephson-junction arrays. *Physica C: Superconductivity and Its Applications*, **2000**, 341-348, 2733-2734 1.3
- 17 Ball Milled Amorphous (Fe_{0.5}Cu_{0.5})₈₅ Zr₁₅ Alloys. *Materials Science Forum*, **2000**, 343-346, 793-799 0.4

- 16 Properties Induced by Mechanical Milling in the System $\text{Sr}_{1-x}\text{Ca}_x\text{CuO}_2$. *Materials Science Forum*, **1998**, 269-272, 1019-1024 0.4
- 15 Reply to comment on 'Exchange penetration and anisotropy magnetoresistance in Co-Ni multilayers'. *Journal Physics D: Applied Physics*, **1999**, 32, 1555-1556 3
- 14 Grain-Boundary Structure in Nanocrystalline Ball-Milled FeRh. *Materials Science Forum*, **1999**, 307, 191-196 0.4
- 13 Magnetic properties of $\text{Fe}_{50}\text{Rh}_{50}$ after hydrogenation. *Journal of Magnetism and Magnetic Materials*, **1999**, 196-197, 644-646 2.8
- 12 Magnetic Properties of Nanostructured Systems. *Materials Science Forum*, **1995**, 195, 141-148 0.4
- 11 FE-Rich $\text{Fe}_{14}\text{Nd}_{2}\text{B}_1$ Type Hard-Soft Nanocrystalline Magnetic Materials. *Materials Science Forum*, **1996**, 235-238, 807-812 0.4
- 10 . *IEEE Transactions on Magnetics*, **1994**, 30, 473-475 2
- 9 Kinetic magnetic relaxation in amorphous magnetostrictive wires. *Journal of Magnetism and Magnetic Materials*, **1992**, 104-107, 139-140 2.8
- 8 Magnetization Reversal and Anisotropy in Exchange Coupled Structures **2001**, 385-390
- 7 The Ruderman-Kittel-Kasuya-Yosida Spin Polarization in Finite Systems: Long Range Antiferromagnetic Polarization **1993**, 49-57
- 6 Extended Precision Quality Measure for Recommender Systems. *Lecture Notes in Computer Science*, **2011**, 433-442 0.9
- 5 A Simple GUI for Developing Applications That Use Mathematical Software Systems. *Lecture Notes in Computer Science*, **2014**, 99-119 0.9
- 4 A natural language for implementing algebraically Expert Systems. *Mathematics and Computers in Simulation*, **2016**, 129, 31-49 3.3
- 3 Spin imbalance of charge carriers induced by an electric current. *Journal of Magnetism and Magnetic Materials*, **2020**, 496, 165904 2.8
- 2 Nanocrystalline Spinel Manganese Ferrite MnFe_2O_4 : Synthesis, Electronic Structure, and Evaluation of Their Magnetic Hyperthermia Applications. *Engineering Materials*, **2021**, 335-348 0.4
- 1 Detecting Magnetic Permeability and Electrical Conductivity Fluctuations in Metallic Ferromagnetic Sheets through the Shielding Effect. *Physica Status Solidi (B): Basic Research*, **2100446** 1.3