

# Paolo Allia

## List of Publications by Year in descending order

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226  
papers

3,662  
citations

159525

30  
h-index

189801

50  
g-index

229  
all docs

229  
docs citations

229  
times ranked

2866  
citing authors

#	ARTICLE	IF	CITATIONS
1	Granular Cu-Co alloys as interacting superparamagnets. <i>Physical Review B</i> , 2001, 64, .	1.1	305
2	Magnetic properties and giant magnetoresistance of melt-spun granular Cu <sub>100-x</sub> Co <sub>x</sub> alloys. <i>Physical Review B</i> , 1995, 52, 15398-15411.	1.1	202
3	Magnetic hysteresis based on dipolar interactions in granular magnetic systems. <i>Physical Review B</i> , 1999, 60, 12207-12218.	1.1	126
4	New approach to the study of the magnetic permeability aftereffect of amorphous ferromagnetic alloys. <i>Physical Review B</i> , 1982, 26, 6141-6149.	1.1	108
5	The influence of crystallised Fe <sub>3</sub> O <sub>4</sub> on the magnetic properties of coprecipitation-derived ferrimagnetic glass-ceramics. <i>Acta Biomaterialia</i> , 2005, 1, 421-429.	4.1	105
6	dc Joule heating of amorphous metallic ribbons: Experimental aspects and model. <i>Review of Scientific Instruments</i> , 1993, 64, 1053-1060.	0.6	82
7	Magnetic properties of the ferrimagnetic glass-ceramics for hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 305, 529-533.	1.0	82
8	Joule-heating effects in the amorphous Fe <sub>40</sub> Ni <sub>40</sub> B <sub>20</sub> alloy. <i>Physical Review B</i> , 1993, 47, 3118-3125.	1.1	70
9	Kinetics of the amorphous to nanocrystalline transformation in Fe <sub>73.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> Si <sub>13.5</sub> B <sub>9</sub> . <i>Journal of Applied Physics</i> , 1993, 74, 3137-3143.	1.1	66
10	Soft nanocrystalline ferromagnetic alloys with improved ductility obtained through dc Joule heating of amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1994, 133, 243-247.	1.0	62
11	Magnetic Properties of Nanocomposites. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 212.	1.3	62
12	Local symmetries and structural distortions in amorphous ferromagnetic metals: A study of their contributions to the aftereffect of the magnetic permeability. <i>Physical Review B</i> , 1986, 33, 422-429.	1.1	52
13	Magnetic properties and giant magnetoresistance in melt-spun Co-Cu alloys. <i>Journal of Applied Physics</i> , 1995, 78, 392-397.	1.1	51
14	Fe <sub>3</sub> O <sub>4</sub> nanoparticles and nanocomposites with potential application in biomedicine and in communication technologies: Nanoparticle aggregation, interaction, and effective magnetic anisotropy. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	50
15	Magnetic properties of jet-printer inks containing dispersed magnetite nanoparticles. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	49
16	Temperature effect on the magnetic properties of the coprecipitation derived ferrimagnetic glass-ceramics. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 300, 412-417.	1.0	47
17	Sonochemical synthesis of versatile hydrophilic magnetite nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 877-882.	3.8	44
18	Structural relaxation and irreversible changes of electrical resistivity of Fe-Ni-Mo amorphous alloys. <i>Journal of Applied Physics</i> , 1982, 53, 8798-8804.	1.1	41

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19	Eu-doped $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles with modified magnetic properties. Journal of Solid State Chemistry, 2013, 201, 302-311.	1.4	39
20	Magnetic after-effects and structural instabilities in amorphous soft magnetic materials. Journal of Magnetism and Magnetic Materials, 1980, 19, 281-283.	1.0	38
21	Single BiFeO <sub>3</sub> and mixed BiFeO <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> /Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> ferromagnetic photocatalysts for solar light driven water oxidation and dye pollutants degradation. Journal of Industrial and Engineering Chemistry, 2018, 63, 437-448.	2.9	38
22	Evidence for magnetic interactions among magnetite nanoparticles dispersed in photoreticulated PEGDA-600 matrix. Journal of Nanoparticle Research, 2011, 13, 5615-5626.	0.8	37
23	Poly(ethylene glycol)-Coated Fe <sub>3</sub> O <sub>4</sub> Nanoparticles by UV-Thiol-ene Addition of PEG Dithiol on Vinyl-Functionalized Magnetite Surface. Macromolecular Chemistry and Physics, 2011, 212, 1629-1635.	1.1	37
24	Free volume dependence of the electrical resistivity of metallic glasses prepared with different quenching rates. Solid State Communications, 1982, 43, 821-824.	0.9	36
25	Improved ductility of nanocrystalline Fe <sub>73.5</sub> Nb <sub>3</sub> Cu <sub>1</sub> Si <sub>13.5</sub> B <sub>9</sub> obtained by direct-current joule heating. Applied Physics Letters, 1993, 63, 2759-2761.	1.5	35
26	Dynamic effects of dipolar interactions on the magnetic behavior of magnetite nanoparticles. Journal of Nanoparticle Research, 2011, 13, 7277-7293.	0.8	35
27	Viscosity field and magnetic aftereffects in amorphous (Fe-Ni-P-B) alloys. IEEE Transactions on Magnetics, 1981, 17, 1481-1486.	1.2	33
28	UV-cured transparent magnetic polymer nanocomposites. Polymer, 2013, 54, 4472-4479.	1.8	33
29	Photoinitiator-free UV-cured Acrylic Coatings Containing Magnetite Nanoparticles. Macromolecular Chemistry and Physics, 2010, 211, 2530-2535.	1.1	31
30	Al/Fe isomorphic substitution versus Fe <sub>2</sub> O <sub>3</sub> clusters formation in Fe-doped aluminosilicate nanotubes (imogolite). Journal of Nanoparticle Research, 2015, 17, 1.	0.8	31
31	Magnetoresistance and nanoscopic magnetic coherence in some frustrated ferromagnets. Physical Review B, 2003, 67, .	1.1	29
32	Magnetic correlation states in cosputtered granular Ag <sub>100</sub> xFe films. Physical Review B, 2006, 73, .	1.1	28
33	Optical properties of anisotropic periodic helical structures. Journal De Physique, 1985, 46, 573-582.	1.8	27
34	Joule heating in amorphous metallic wires. Journal Physics D: Applied Physics, 1995, 28, 2398-2403.	1.3	26
35	Microwave-assisted nonaqueous sol-gel synthesis of highly crystalline magnetite nanocrystals. Materials Chemistry and Physics, 2014, 148, 117-124.	2.0	26
36	Temperature-dependent heating efficiency of magnetic nanoparticles for applications in precision nanomedicine. Nanoscale, 2020, 12, 6360-6377.	2.8	26

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37	Polymer grafting onto magnetite nanoparticles by "click" reaction. Journal of Materials Science, 2012, 47, 412-419.	1.7	24
38	Preparation and Characterization of Magnetic and Porous Metal-Ceramic Nanocomposites from a Zeolite Precursor and Their Application for DNA Separation. Journal of Biomedical Nanotechnology, 2017, 13, 337-348.	0.5	24
39	Magnetic metal-ceramic nanocomposites obtained from cation-exchanged zeolite by heat treatment in reducing atmosphere. Microporous and Mesoporous Materials, 2018, 268, 131-143.	2.2	24
40	Structural instabilities and magnetic relaxation in amorphous ferromagnets. Journal of Magnetism and Magnetic Materials, 1980, 15-18, 1361-1363.	1.0	23
41	Photo-Cured Epoxy Networks Functionalized With $Fe_3O_4$ Generated by Non-hydrolytic Sol-Gel Process. Macromolecular Chemistry and Physics, 2013, 214, 508-516.	1.1	23
42	Dipolar interactions among magnetite nanoparticles for magnetic hyperthermia: a rate-equation approach. Nanoscale, 2021, 13, 4103-4121.	2.8	23
43	Epoxy nanocomposites functionalized with in situ generated magnetite nanocrystals: Microstructure, magnetic properties, interaction among magnetic particles. Polymer, 2015, 59, 278-289.	1.8	22
44	Novel process to prepare magnetic metal-ceramic nanocomposites from zeolite precursor and their use as adsorbent of agrochemicals from water. Journal of Environmental Chemical Engineering, 2018, 6, 527-538.	3.3	22
45	Theory of negative magnetostriction in grain oriented 3% SiFe for various inductions and applied stresses. IEEE Transactions on Magnetics, 1978, 14, 362-364.	1.2	21
46	Suppression of the magnetic permeability relaxation in nanocrystalline $Fe_{73.5}Cu_1Nb_3Si_{13.5}B_9$ . Applied Physics Letters, 1991, 59, 2454-2456.	1.5	21
47	Nanocrystalline phase formation in amorphous $Fe_{73.5}Cu_1Nb_3Si_{13.5}B_9$ submitted to conventional annealing and Joule heating. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 572-576.	2.6	21
48	Proximity magnetoresistance in $Au_{80}Fe_{20}$ and $Au_{70}Fe_{30}$ below the ordering temperature. Journal of Applied Physics, 2002, 91, 5936-5939.	1.1	21
49	Magnetic and magnetotransport properties of arrays of nanostructured antidots obtained by self-assembling polystyrene nanosphere lithography. Journal of Applied Physics, 2010, 107, .	1.1	21
50	Magnetic dipolar coupling and collective effects for binary information codification in cost-effective logic devices. Journal of Magnetism and Magnetic Materials, 2012, 324, 3006-3012.	1.0	21
51	Theoretical study of irreversible Bloch wall jumps and static losses. Journal of Applied Physics, 1977, 48, 4649-4655.	1.1	20
52	Theory of directional order and induced anisotropy energy in ferromagnetic amorphous systems. IEEE Transactions on Magnetics, 1978, 14, 1050-1053.	1.2	20
53	An exact model of d.c. joule heating in amorphous metallic ribbons. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1994, 179-180, 361-365.	2.6	20
54	Thermally evaporated $Cu-Co$ top spin valve with random exchange bias. Journal of Applied Physics, 2007, 101, 123915.	1.1	20

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55	Polarization transfer matrix for the transmission of light through liquid-crystal slabs. Journal of the Optical Society of America B: Optical Physics, 1988, 5, 2452.	0.9	19
56	Torque measurements of induced anisotropy in amorphous Fe <sub>80</sub> B <sub>20</sub> alloys. Journal of Applied Physics, 1981, 52, 3553-3556.	1.1	18
57	Observation of isotropic giant magnetoresistance in paramagnetic Au <sub>80</sub> Fe <sub>20</sub> . Physical Review B, 2001, 63, .	1.1	18
58	Observation of magnetoresistance in core-shell Fe <sub>2</sub> O <sub>3</sub> /Fe oxide systems. Journal of Applied Physics, 2002, 91, 8593.	1.1	18
59	GMR as a function of temperature in FeAg granular samples: the effect of magnetic interactions. Journal of Magnetism and Magnetic Materials, 2003, 262, 88-91.	1.0	18
60	Nonharmonic Driving Fields for Enhancement of Nanoparticle Heating Efficiency in Magnetic Hyperthermia. Physical Review Applied, 2019, 12, .	1.5	18
61	Preparation of polymer-based composite with magnetic anisotropy by oriented carbon nanotube dispersion. Diamond and Related Materials, 2008, 17, 1590-1595.	1.8	17
62	Nonaqueous Sol-Gel Synthesis of Magnetic Iron Oxides Nanocrystals. Journal of the American Ceramic Society, 2013, 96, 3169-3175.	1.9	17
63	Hysteresis effects in magnetic nanoparticles: A simplified rate-equation approach. Journal of Magnetism and Magnetic Materials, 2020, 496, 165927.	1.0	17
64	4 Å <sup>2</sup> matrix approach to chiral liquid-crystal optics. Journal of the Optical Society of America B: Optical Physics, 1986, 3, 424.	0.9	16
65	Magnetic properties and giant magnetoresistance of magnetic granular Co <sub>10</sub> Cu <sub>90</sub> alloys obtained by direct-current joule heating. Journal of Applied Physics, 1995, 78, 5062-5066.	1.1	16
66	Magnetic properties and giant magnetoresistance in melt-spun Co <sub>15</sub> Cu <sub>85</sub> alloys. Journal of Physics Condensed Matter, 1995, 7, 4081-4093.	0.7	16
67	Enhanced imaging of magnetic structures in micropatterned arrays of Co dots and antidots. Journal of Magnetism and Magnetic Materials, 2008, 320, e669-e673.	1.0	16
68	Structural characterization and functional correlation of Fe <sub>3</sub> O <sub>4</sub> nanocrystals obtained using 2-ethyl-1,3-hexanediol as innovative reactive solvent in non-hydrolytic sol-gel synthesis. Materials Chemistry and Physics, 2018, 207, 337-349.	2.0	16
69	Linearized rate-equation approach for double-well systems: Cooling- and temperature-dependent low-field magnetization of magnetic nanoparticles. Physical Review B, 2018, 98, .	1.1	16
70	Magnetic properties and giant magnetoresistance in magnetic granular Co <sub>x</sub> Cu <sub>100-x</sub> alloys. Journal Physics D: Applied Physics, 1995, 28, 1770-1777.	1.3	15
71	Synthesis of Ni <sub>80</sub> Fe <sub>20</sub> and Co nanodot arrays by self-assembling of polystyrene nanospheres: magnetic and microstructural properties. Journal of Nanoparticle Research, 2011, 13, 4211-4218.	0.8	15
72	Magnetite-epoxy nanocomposites obtained by the reactive suspension method: Microstructural, thermo-mechanical and magnetic properties. European Polymer Journal, 2017, 94, 354-365.	2.6	15

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73	Torque magnetometer measurements of the temperature dependence of induced anisotropy energy and of saturation magnetization in amorphous Fe <sub>40</sub> Ni <sub>40</sub> P <sub>14</sub> B <sub>6</sub> . <i>Solid State Communications</i> , 1977, 24, 517-519.	0.9	14
74	Pure magnetic hard fct FePt nanoparticles: Chemical synthesis, structural and magnetic properties correlations. <i>Materials Chemistry and Physics</i> , 2014, 144, 186-193.	2.0	14
75	Removal of Agrochemicals from Waters by Adsorption: A Critical Comparison among Humic-Like Substances, Zeolites, Porous Oxides, and Magnetic Nanocomposites. <i>Processes</i> , 2020, 8, 141.	1.3	14
76	Mössbauer spectroscopy of amorphous Fe <sub>80</sub> Si <sub>20</sub> B alloys with different free volume content. <i>Journal of Applied Physics</i> , 1982, 53, 7750-7752.	1.1	13
77	High-Temperature Magnetic and Magnetotransport Properties of Melt-Spun Au <sub>80</sub> Fe <sub>20</sub> and Au <sub>70</sub> Fe <sub>30</sub> . <i>Physica Status Solidi A</i> , 2002, 189, 321-325.	1.7	13
78	Morphology and magnetic properties of island-like Co and Ni films obtained by de-wetting. <i>Journal of Nanoparticle Research</i> , 2011, 13, 245-255.	0.8	13
79	Transverse closure domains and the behavior of the magnetization in grain-oriented polycrystalline magnetic sheets. <i>Journal of Applied Physics</i> , 1981, 52, 1439-1447.	1.1	12
80	Magnetic permeability after-effect and structural defects of amorphous ferromagnetic alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1983, 31-34, 1527-1532.	1.0	12
81	Magnetic and magnetotransport properties in metastable granular systems. <i>Journal of Alloys and Compounds</i> , 2007, 434-435, 594-597.	2.8	12
82	Magnetoresistance anisotropy in a hexagonal lattice of Co antidots obtained by thermal evaporation. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1409-1412.	1.0	12
83	Magnetoelastic coupling in multilayered ferroelectric/ferromagnetic thin films: A quantitative evaluation. <i>Applied Surface Science</i> , 2012, 258, 8072-8077.	3.1	12
84	Magnetic clustering of Ni <sup>2+</sup> ions in metal-ceramic nanocomposites obtained from Ni-exchanged zeolite precursors. <i>Ceramics International</i> , 2018, 44, 17240-17250.	2.3	12
85	Removal of sulfanilamide by tailor-made magnetic metal-ceramic nanocomposite adsorbents. <i>Journal of Environmental Management</i> , 2022, 310, 114701.	3.8	12
86	Evidence for a magnetic permeability relaxation of dissipative type in amorphous ferromagnetic alloys. <i>Applied Physics Letters</i> , 1987, 51, 142-144.	1.5	11
87	Electrical-resistivity evolution in Fe <sub>73.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> Si <sub>13.5</sub> B <sub>9</sub> during the amorphous-to-nanocrystalline transformation. <i>Journal of Non-Crystalline Solids</i> , 1993, 156-158, 585-588.	1.5	11
88	A study of the amorphous-to-nanocrystalline transformation in Fe <sub>73.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> Si <sub>13.5</sub> B <sub>9</sub> through combined measurements of electrical resistivity, mechanical spectroscopy and TEM. <i>Scripta Materialia</i> , 1993, 3, 433-440.	0.5	11
89	Nanostructured materials for soft magnetic applications produced by fast dc Joule heating. <i>IEEE Transactions on Magnetics</i> , 1994, 30, 4797-4799.	1.2	11
90	Magnetic behavior of Ni nanoparticles and Ni <sup>2+</sup> ions in weakly loaded zeolitic structures. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152776.	2.8	10

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91	Separation of Biological Entities from Human Blood by Using Magnetic Nanocomposites Obtained from Zeolite Precursors. <i>Molecules</i> , 2020, 25, 1803.	1.7	10
92	Fast contributions to the magnetic permeability aftereffect in amorphous ferromagnetic ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1986, 54-57, 273-274.	1.0	9
93	Structural relaxation in FeNiCrPB amorphous alloys by joint isothermal and tempering measurements of the electrical resistivity. <i>Journal of Materials Science</i> , 1988, 23, 4287-4294.	1.7	9
94	Jones matrix treatment of electromagnetic wave propagation in anisotropic stratified media. <i>Physica Scripta</i> , 1988, 37, 755-758.	1.2	9
95	Arrays of nanostructured antidot in Ni <sub>80</sub> Fe <sub>20</sub> magnetic thin films by photolithography of polystyrene nanospheres. <i>Applied Surface Science</i> , 2012, 259, 44-48.	3.1	9
96	Simulated Moon Agglutinates Obtained from Zeolite Precursor by Means of a Low-Cost and Scalable Synthesis Method. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1884-1895.	1.2	9
97	Magnetostriction behavior in isotropic and cube-on-face 3% SiFe laminations. <i>Journal of Applied Physics</i> , 1979, 50, 7716.	1.1	8
98	A study of the fast permeability relaxation in amorphous ferromagnets. <i>Journal of Applied Physics</i> , 1988, 64, 4103-4107.	1.1	8
99	Grain size distribution in granular Cu <sub>100</sub> ~Co through anhysteretic magnetisation curve analysis. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 157-158, 319-320.	1.0	8
100	Giant magnetoresistance in magnetic granular Co <sub>15</sub> Cu <sub>85</sub> alloys annealed by direct-current Joule heating. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 164, 99-104.	1.0	8
101	A structural investigation of amorphous and nanocrystalline. <i>Journal Physics D: Applied Physics</i> , 1996, 29, 848-854.	1.3	8
102	Investigation of static and dynamic magnetic properties of Joule heated granular Co <sub>10</sub> Cu <sub>90</sub> ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 202, 123-132.	1.0	8
103	Temperature dependence of spontaneous magnetisation in granular Au <sub>80</sub> Fe <sub>20</sub> films. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 580-583.	1.0	8
104	Effect of Ag addition on the magnetic and magnetoresistance properties of films. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e35-e39.	1.0	8
105	Enhancement and Correlation of MFM Images: Effect of the Tip on the Magnetic Configuration of Patterned Co Thin Films. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 195-198.	1.2	8
106	Towards a quantitative analysis of magnetic force microscopy data matrices. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 2416-2428.	1.0	8
107	Toward mechano-spintronics: Nanostructured magnetic multilayers for the realization of microcantilever sensors featuring wireless actuation for liquid environments. <i>Journal of Intelligent Material Systems and Structures</i> , 2013, 24, 2189-2196.	1.4	8
108	Magnetic properties of pure and Eu-doped hematite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	8



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109	Anisotropic magnetic polymer nanocomposite with self-assembled chains of titania-coated magnetite nanoparticles. <i>Materials Today Communications</i> , 2016, 7, 32-41.	0.9	8
110	Fine tuning and optimization of magnetic hyperthermia treatments using versatile trapezoidal driving-field waveforms. <i>Nanoscale Advances</i> , 2020, 2, 4652-4664.	2.2	8
111	Theory of the remanence in grain-oriented Si-Fe sheets in presence of external stresses. <i>IEEE Transactions on Magnetics</i> , 1981, 17, 2863-2865.	1.2	7
112	Magnetic permeability after-effect in Fe-Cr-B and Fe-Cu-B amorphous systems. <i>Journal of Applied Physics</i> , 1982, 53, 7849-7851.	1.1	7
113	Study of structural relaxation in (Fe-Ni-Mo-B) amorphous alloys by joint permeability after-effect and electrical resistivity measurements. <i>Journal of Magnetism and Magnetic Materials</i> , 1982, 26, 139-142.	1.0	7
114	Reversible and irreversible processes of structural relaxation and dynamic young modulus behaviour in the Fe <sub>40</sub> Ni <sub>38</sub> Mo <sub>4</sub> B <sub>18</sub> amorphous alloy. <i>Physica Status Solidi A</i> , 1985, 88, 521-527.	1.7	7
115	Effect of annealing on the permeability relaxation of dissipative type in amorphous ferromagnets. <i>Physica Scripta</i> , 1989, 39, 489-491.	1.2	7
116	Magnetic correlation among nanosized Co particles in Cu-Co heterogeneous thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 56-58.	1.0	7
117	Stress dependence of magnetization processes: Reversals and relaxation in Fe <sub>85</sub> Co <sub>15</sub> amorphous ribbons. <i>Physical Review B</i> , 2001, 63, .	1.1	7
118	Granular metallic systems as interacting superparamagnets: anhysteretic magnetization and hysteresis loops. <i>Journal of Magnetism and Magnetic Materials</i> , 2003, 254-255, 143-148.	1.0	7
119	Elemental distribution and morphological analysis of layered metallic systems: Application to Co-Sn evaporated multilayers. <i>Thin Solid Films</i> , 2008, 516, 8453-8461.	0.8	7
120	Magnetotransport properties of a percolating network of magnetite crystals embedded in a glass-ceramic matrix. <i>Journal of Applied Physics</i> , 2009, 105, 083911.	1.1	7
121	Demagnetizing fields at grain boundaries and the law of approach to saturation of isotropic polycrystalline ferromagnets at intermediate fields. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1983, 2, 1225-1238.	0.4	6
122	Resistometric study of short range ordering in metallic glasses having different free volume content. <i>Journal of Non-Crystalline Solids</i> , 1984, 61-62, 1365-1370.	1.5	6
123	High-frequency domain wall motion and energy dissipation in soft ferromagnetic metallic glasses. <i>Journal of Applied Physics</i> , 1987, 61, 1237-1239.	1.1	6
124	Kinetic analysis of structural relaxation in FeNiCrPB amorphous alloys by electrical resistivity measurements. <i>Materials Science and Engineering</i> , 1988, 97, 537-539.	0.1	6
125	An unusual field dependence of disaccommodation observed in ferromagnetic metallic glasses under stress. <i>Journal of Magnetism and Magnetic Materials</i> , 1990, 83, 345-346.	1.0	6
126	Effect of microcrystal development on the magnetic properties of heat-treated amorphous Fe <sub>78</sub> B <sub>13</sub> Si <sub>9</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 1990, 83, 347-348.	1.0	6



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127	Kinetic and structural aspects of magnetic phenomena in amorphous soft ferromagnets. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1990, 61, 763-772.	0.6	6
128	Relaxation of magnetoresistance and magnetization in granular Cu <sub>90</sub> Co <sub>10</sub> obtained from rapidly quenched ribbons. Journal of Applied Physics, 1994, 76, 6817-6819.	1.1	6
129	Giant magnetoresistance in Joule heated Cu <sub>1-x</sub> Co <sub>x</sub> ribbons. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 617-618.	1.0	6
130	Hysteretic magnetisation curves in the granular Cu <sub>100-x</sub> Cox system. Scripta Materialia, 1999, 11, 757-767.	0.5	6
131	Magnetic and magnetotransport properties of a Co <sup>2+</sup> /Sn evaporated trilayer. Journal of Physics Condensed Matter, 2008, 20, 345213.	0.7	6
132	Vector magnetisation measurements on thermally evaporated CoCr multilayers and solid solutions for spintronic applications. Journal of Magnetism and Magnetic Materials, 2009, 321, 3099-3103.	1.0	6
133	Magnetic properties of current-annealed amorphous thin films. Journal of Applied Physics, 2012, 112, 053910.	1.1	6
134	Study of the magnetic microstructure of Ni/NiO nanogranular samples above the electric percolation threshold by magnetoresistance measurements. Journal of Physics Condensed Matter, 2012, 24, 306004.	0.7	6
135	Fe-oxide Nanoparticles: a natural playground for testing the ISP model. Journal of Physics: Conference Series, 2014, 521, 012008.	0.3	6
136	Verwey transition temperature distribution in magnetic nanocomposites containing polydisperse magnetite nanoparticles. Journal of Materials Science, 2019, 54, 8346-8360.	1.7	6
137	New Insights in the Production of Simulated Moon Agglutinates: the Use of Natural Zeolite-Bearing Rocks. ACS Earth and Space Chemistry, 2021, 5, 1631-1646.	1.2	6
138	Magnetic Nanoparticle Imaging: Insight on the Effects of Magnetic Interactions and Hysteresis of Tracers. ACS Applied Nano Materials, 2022, 5, 2699-2714.	2.4	6
139	Magnetostriction behaviour associated with closure domain spikes in ferrous magnetic laminations. Journal of Magnetism and Magnetic Materials, 1980, 15-18, 1430-1432.	1.0	5
140	On some new methods for the measurement of stochastic characters of local magnetization and of magnetic viscosity phenomena. Journal of Magnetism and Magnetic Materials, 1984, 41, 209-215.	1.0	5
141	Permeability-relaxation study of structural distortions and energy dissipation in amorphous ferromagnets. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1987, 56, 167-175.	0.6	5
142	Kinetic analysis of structural relaxation of Fe <sub>1-x</sub> Ni <sub>x</sub> based amorphous alloys by means of dsc and electrical resistivity measurements. Journal of the Less Common Metals, 1988, 145, 375-381.	0.9	5
143	Evidence for correlations among the ordering processes responsible for the permeability disaccommodation in amorphous ferromagnets. Journal of Applied Physics, 1988, 63, 829-832.	1.1	5
144	Viscosity field and magnetic-permeability aftereffect in amorphous ferromagnets: A kinetic approach. Journal of Magnetism and Magnetic Materials, 1989, 82, 77-82.	1.0	5

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145	Magnetic properties of partially crystallized Fe <sub>78</sub> B <sub>14</sub> Si <sub>8</sub> amorphous alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1990, 61, 579-586.	0.6	5
146	Effect of growth rate on the magnetic properties of Fe–Al multilayers. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1767-1768.	1.0	5
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