

Paolo Allia

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6765461/paolo-allia-publications-by-year.pdf>

Version: 2024-04-27

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.

224
papers

3,260
citations

28
h-index

47
g-index

229
ext. papers

3,459
ext. citations

3.1
avg. IF

4.83
L-index

#	Paper	IF	Citations
224	Magnetic clustering of weakly interacting Ni-ions in Ni-exchanged zeolites. <i>Microporous and Mesoporous Materials</i> , 2022 , 335, 111786	5.3	
223	Removal of sulfanilamide by tailor-made magnetic metal-ceramic nanocomposite adsorbents.. <i>Journal of Environmental Management</i> , 2022 , 310, 114701	7.9	1
222	Heating ability modulation by clustering of magnetic particles for precision therapy and diagnosis. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 315003	3	1
221	New Insights in the Production of Simulated Moon Agglutinates: the Use of Natural Zeolite-Bearing Rocks. <i>ACS Earth and Space Chemistry</i> , 2021 , 5, 1631-1646	3.2	3
220	Dipolar interactions among magnetite nanoparticles for magnetic hyperthermia: a rate-equation approach. <i>Nanoscale</i> , 2021 , 13, 4103-4121	7.7	5
219	Temperature-dependent heating efficiency of magnetic nanoparticles for applications in precision nanomedicine. <i>Nanoscale</i> , 2020 , 12, 6360-6377	7.7	16
218	Separation of Biological Entities From Human Blood by Using Magnetic Nanocomposites Obtained From Zeolite Precursors. <i>Molecules</i> , 2020 , 25,	4.8	7
217	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	2.9	8
216	Magnetic behavior of Ni nanoparticles and Ni ²⁺ ions in weakly loaded zeolitic structures. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 152776	5.7	6
215	Fine tuning and optimization of magnetic hyperthermia treatments using versatile trapezoidal driving-field waveforms. <i>Nanoscale Advances</i> , 2020 , 2, 4652-4664	5.1	4
214	Hysteresis effects in magnetic nanoparticles: A simplified rate-equation approach. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 496, 165927	2.8	9
213	Nonharmonic Driving Fields for Enhancement of Nanoparticle Heating Efficiency in Magnetic Hyperthermia. <i>Physical Review Applied</i> , 2019 , 12,	4.3	7
212	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	3.2	6
211	Verwey transition temperature distribution in magnetic nanocomposites containing polydisperse magnetite nanoparticles. <i>Journal of Materials Science</i> , 2019 , 54, 8346-8360	4.3	4
210	Magnetic Properties of Nanocomposites. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 212	2.6	45
209	Magnetic metal-ceramic nanocomposites obtained from cation-exchanged zeolite by heat treatment in reducing atmosphere. <i>Microporous and Mesoporous Materials</i> , 2018 , 268, 131-143	5.3	18
208	Novel process to prepare magnetic metal-ceramic nanocomposites from zeolite precursor and their use as adsorbent of agrochemicals from water. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 527-538	6.8	16

207	Growth of room temperature ferromagnetic Ge _{1-x} Mn _x quantum dots on hydrogen passivated Si (100) surfaces. <i>AIP Advances</i> , 2018 , 8, 056414	1.5	3
206	Structural characterization and functional correlation of Fe ₃ O ₄ nanocrystals obtained using 2-ethyl-1,3-hexanediol as innovative reactive solvent in non-hydrolytic sol-gel synthesis. <i>Materials Chemistry and Physics</i> , 2018 , 207, 337-349	4.4	14
205	Single BiFeO ₃ and mixed BiFeO ₃ /Fe ₂ O ₃ /Bi ₂ Fe ₄ O ₉ ferromagnetic photocatalysts for solar light driven water oxidation and dye pollutants degradation. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 63, 437-448	6.3	26
204	Magnetic clustering of Ni ²⁺ ions in metal-ceramic nanocomposites obtained from Ni-exchanged zeolite precursors. <i>Ceramics International</i> , 2018 , 44, 17240-17250	5.1	8
203	Linearized rate-equation approach for double-well systems: Cooling- and temperature-dependent low-field magnetization of magnetic nanoparticles. <i>Physical Review B</i> , 2018 , 98,	3.3	12
202	Preparation and Characterization of Magnetic and Porous Metal-Ceramic Nanocomposites from a Zeolite Precursor and Their Application for DNA Separation. <i>Journal of Biomedical Nanotechnology</i> , 2017 , 13, 337-48	4	20
201	Magnetic states of nanostructures containing Ni ions at the surface of SiO nanospheres. <i>Scientific Reports</i> , 2017 , 7, 10822	4.9	1
200	Magnetite-epoxy nanocomposites obtained by the reactive suspension method: Microstructural, thermo-mechanical and magnetic properties. <i>European Polymer Journal</i> , 2017 , 94, 354-365	5.2	11
199	Anisotropic magnetic polymer nanocomposite with self-assembled chains of titania-coated magnetite nanoparticles. <i>Materials Today Communications</i> , 2016 , 7, 32-41	2.5	6
198	Magnetic Properties of Polymer Nanocomposites 2016 , 119-137		2
197	Al/Fe isomorphic substitution versus Fe ₂ O ₃ clusters formation in Fe-doped aluminosilicate nanotubes (imogolite). <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	24
196	Epoxy nanocomposites functionalized with in situ generated magnetite nanocrystals: Microstructure, magnetic properties, interaction among magnetic particles. <i>Polymer</i> , 2015 , 59, 278-289	3.9	20
195	Microwave-assisted nonaqueous sol-gel synthesis of highly crystalline magnetite nanocrystals. <i>Materials Chemistry and Physics</i> , 2014 , 148, 117-124	4.4	20
194	Pure magnetic hard fct FePt nanoparticles: Chemical synthesis, structural and magnetic properties correlations. <i>Materials Chemistry and Physics</i> , 2014 , 144, 186-193	4.4	13
193	Fe-oxide Nanoparticles: a natural playground for testing the ISP model. <i>Journal of Physics: Conference Series</i> , 2014 , 521, 012008	0.3	6
192	Fe ₃ O ₄ 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, 113903	2.5	34
191	Nonaqueous Sol-Gel Synthesis of Magnetic Iron Oxides Nanocrystals. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3169-3175	3.8	12
190	Eu-doped Fe ₂ O ₃ nanoparticles with modified magnetic properties. <i>Journal of Solid State Chemistry</i> , 2013 , 201, 302-311	3.3	28

189	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	2.3	7
188	UV-cured transparent magnetic polymer nanocomposites. <i>Polymer</i> , 2013 , 54, 4472-4479	3.9	29
187	Magnetoresistance of nanogranular Ni/NiO controlled by exchange anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 339, 94-99	2.8	3
186	Magnetic properties of jet-printer inks containing dispersed magnetite nanoparticles. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	40
185	Photo-Cured Epoxy Networks Functionalized With Fe ₃ O ₄ Generated by Non-hydrolytic Sol-Gel Process. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 508-516	2.6	22
184	Magnetic properties of pure and Eu-doped hematite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	7
183	Sonochemical synthesis of versatile hydrophilic magnetite nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2012 , 19, 877-82	8.9	41
182	Towards a quantitative analysis of magnetic force microscopy data matrices. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2416-2428	2.8	8
181	Polymer grafting onto magnetite nanoparticles by click reaction. <i>Journal of Materials Science</i> , 2012 , 47, 412-419	4.3	23
180	Magnetoelastic coupling in multilayered ferroelectric/ferromagnetic thin films: A quantitative evaluation. <i>Applied Surface Science</i> , 2012 , 258, 8072-8077	6.7	12
179	Arrays of nanostructured antidot in Ni ₈₀ Fe ₂₀ magnetic thin films by photolithography of polystyrene nanospheres. <i>Applied Surface Science</i> , 2012 , 259, 44-48	6.7	8
178	Magnetic dipolar coupling and collective effects for binary information codification in cost-effective logic devices. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 3006-3012	2.8	21
177	Study of the magnetic microstructure of Ni/NiO nanogranular samples above the electric percolation threshold by magnetoresistance measurements. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 306004	1.8	6
176	Magnetic properties of current-annealed amorphous thin films. <i>Journal of Applied Physics</i> , 2012 , 112, 053910	2.5	5
175	Magnetic properties of acrylic UV-cured films containing magnetite nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1312, 1		1
174	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	2.3	13
173	Evidence for magnetic interactions among magnetite nanoparticles dispersed in photoreticulated PEGDA-600 matrix. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 5615-5626	2.3	32
172	Synthesis of Ni ₈₀ Fe ₂₀ and Co nanodot arrays by self-assembling of polystyrene nanospheres: magnetic and microstructural properties. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 4211-4218	2.3	15

171	Dynamic effects of dipolar interactions on the magnetic behavior of magnetite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 7277-7293	2.3	32
170	Poly(ethylene glycol)-Coated Magnetite Nanoparticles: Preparation and Characterization. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 411-416	2.6	4
169	Poly(ethylene glycol)-Coated Fe ₃ O ₄ Nanoparticles by UV-Thiol-Ene Addition of PEG Dithiol on Vinyl-Functionalized Magnetite Surface. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 1629-1635	2.6	33
168	Magnetic and magnetotransport properties of arrays of nanostructured antidots obtained by self-assembling polystyrene nanosphere lithography. <i>Journal of Applied Physics</i> , 2010 , 107, 09B502	2.5	20
167	Electrical relaxation induced by magnetostriction in a MEMS device. <i>European Physical Journal B</i> , 2010 , 76, 399-404	1.2	
166	Enhancement and Correlation of MFM Images: Effect of the Tip on the Magnetic Configuration of Patterned Co Thin Films. <i>IEEE Transactions on Magnetism</i> , 2010 , 46, 195-198	2	7
165	Photoinitiator-Free UV-Cured Acrylic Coatings Containing Magnetite Nanoparticles. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 2530-2535	2.6	30
164	Room-temperature relaxation of the electrical resistance and electrical 1/f noise observed at very low frequency in the remanent state of glass-ceramics containing magnetite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 1286-1289	2.8	
163	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	2.8	10
162	Competing magnetoresistance contributions in sputtered FePt thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 1898-1903	2.8	5
161	Magnetotransport properties of a percolating network of magnetite crystals embedded in a glass-ceramic matrix. <i>Journal of Applied Physics</i> , 2009 , 105, 083911	2.5	7
160	Vector magnetisation measurements on thermally evaporated CoCr multilayers and solid solutions for spintronic applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 3099-3103	2.8	5
159	Preparation of polymer-based composite with magnetic anisotropy by oriented carbon nanotube dispersion. <i>Diamond and Related Materials</i> , 2008 , 17, 1590-1595	3.5	17
158	Low-temperature magnetotransport effects and magnetic inhomogeneity in FePt-based ferromagnetic thin films. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 134016	3	4
157	Magnetic and magnetotransport properties of a CoBn evaporated trilayer. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 345213	1.8	5
156	Anomalous low-temperature magnetoresistance dips in sputtered ferromagnetic thin films and multilayers. <i>Journal of Applied Physics</i> , 2008 , 103, 073905	2.5	2
155	Enhanced imaging of magnetic structures in micropatterned arrays of Co dots and antidots. <i>Journal of Magnetism and Magnetic Materials</i> , 2008 , 320, e669-e673	2.8	15
154	Elemental distribution and morphological analysis of layered metallic systems: Application to CoBn evaporated multilayers. <i>Thin Solid Films</i> , 2008 , 516, 8453-8461	2.2	7

153	Low-temperature magnetic softening by competing anisotropy compensation in a granular FePt/Ag multilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 2231-2233	2.8	4
152	Different aggregation states in Cu/Co multilayers prepared by RF sputtering on rotating substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e5-e8	2.8	1
151	Effect of Ag addition on the magnetic and magnetoresistance properties of films. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e35-e39	2.8	6
150	. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2471-2473	2	4
149	Thermally evaporated Cu/Co top spin valve with random exchange bias. <i>Journal of Applied Physics</i> , 2007 , 101, 123915	2.5	16
148	Magnetic and magnetotransport properties in metastable granular systems. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 594-597	5.7	12
147	Magnetic and magnetotransport properties in Joule-heated granular Cu ₉₅ Co ₅ ribbons. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 601-603	5.7	1
146	Magnetic properties of the ferrimagnetic glass-ceramics for hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 305, 529-533	2.8	73
145	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	2.8	40
144	Magnetic correlation states in cosputtered granular Ag _{100-x} Fe _x films. <i>Physical Review B</i> , 2006 , 73,	3.3	28
143	Temperature dependence of spontaneous magnetisation in granular Au ₈₀ Fe ₂₀ films. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 580-583	2.8	8
142	The influence of crystallised Fe ₃ O ₄ on the magnetic properties of coprecipitation-derived ferrimagnetic glass-ceramics. <i>Acta Biomaterialia</i> , 2005 , 1, 421-9	10.8	91
141	Magnetoresistance analysis of nanoscale magnetic correlation in cosputtered Fe/sub 100-x/Ag/sub x/ films. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3412-3414	2	1
140	Proximity magnetoresistance in Ag ₇₀ Fe ₃₀ and Ag ₇₄ Fe ₂₆ cosputtered granular films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 3406-3409		3
139	Study of anhysteretic magnetization loops of Co _{0.35} (SiO ₂) _{0.65} granular film. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1526-1527	2.8	5
138	Low-temperature magnetization and magnetoresistance of the interacting nanogranular superparamagnet Cu ₉₅ Co ₅ . <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1482-1484	2.8	
137	Effects of quenching and annealing on the high-temperature magnetic properties of rapidly quenched Au ₈₀ Fe ₂₀ alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, E1189-E1190	2.8	2
136	Magnetic and magneto-transport properties of rapidly solidified Cu _{80-x} Fe ₂₀ Ni _x alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 1006-1010	5.3	2

135	High-frequency magnetic aftereffect in Co-based amorphous wires and ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 254-255, 207-209	2.8	
134	Granular metallic systems as interacting superparamagnets: anhysteretic magnetization and hysteresis loops. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 254-255, 143-148	2.8	6
133	Negative magnetoresistance in strongly frustrated ferromagnets with nanometric magnetic coherence. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 262, 39-46	2.8	5
132	Novel aspects of magnetoresistance in nanogranular magnetic systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 262, 47-51	2.8	2
131	GMR as a function of temperature in FeAg granular samples: the effect of magnetic interactions. <i>Journal of Magnetism and Magnetic Materials</i> , 2003 , 262, 88-91	2.8	16
130	Magnetoresistance and nanoscopic magnetic coherence in some frustrated ferromagnets. <i>Physical Review B</i> , 2003 , 67,	3.3	28
129	High-Temperature Magnetic and Magnetotransport Properties of Melt-Spun Au ₈₀ Fe ₂₀ and Au ₇₀ Fe ₃₀ . <i>Physica Status Solidi A</i> , 2002 , 189, 321-325		13
128	Proximity magnetoresistance in Au ₈₀ Fe ₂₀ and Au ₇₀ Fe ₃₀ below the ordering temperature. <i>Journal of Applied Physics</i> , 2002 , 91, 5936-5939	2.5	21
127	Liquid crystal comb polymer with polar mesogenic and aliphatic side groups II. Noise of the scattered light. <i>Liquid Crystals</i> , 2002 , 29, 405-411	2.3	1
126	Observation of magnetoresistance in core-shell Fe/Fe oxide systems. <i>Journal of Applied Physics</i> , 2002 , 91, 8593	2.5	17
125	Liquid crystal comb polymer with polar mesogenic and aliphatic side groups I. Preparation and structural properties. <i>Liquid Crystals</i> , 2002 , 29, 397-404	2.3	2
124	Magneto-impedance measurements of amorphous Fe _{62.5} Co ₆ Ni _{7.5} Zr ₆ Cu ₁ Nb ₂ B ₁₅ with improved magneto-elastic properties. <i>Sensors and Actuators A: Physical</i> , 2001 , 91, 199-202	3.9	2
123	Temperature behavior of anhysteretic magnetization in granular magnetic systems. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 226-230, 1904-1906	2.8	4
122	Observation of isotropic giant magnetoresistance in paramagnetic Au ₈₀ Fe ₂₀ . <i>Physical Review B</i> , 2001 , 63,	3.3	18
121	Stress dependence of magnetization processes: Reversals and relaxation in Fe _x Co _{85-x} B ₁₅ amorphous ribbons. <i>Physical Review B</i> , 2001 , 63,	3.3	5
120	Granular Cu-Co alloys as interacting superparamagnets. <i>Physical Review B</i> , 2001 , 64,	3.3	276
119	Magnetic permeability relaxation in amorphous Fe _{62.5} Co ₆ Ni _{7.5} Zr ₆ Cu ₁ Nb ₂ B ₁₅ . <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 215-216, 346-348	2.8	4
118	Magnetic correlation among nanosized Co particles in Cu ₂ Co heterogeneous thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 196-197, 56-58	2.8	7

117	High-temperature superparamagnetic behaviour of Cu _{100-x} Co _x systems containing Co particles in the nanometer range. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 203, 76-78	2.8	1
116	Investigation of static and dynamic magnetic properties of Joule heated granular Co ₁₀ Cu ₉₀ ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 202, 123-132	2.8	7
115	Magnetic hysteresis based on dipolar interactions in granular magnetic systems. <i>Physical Review B</i> , 1999 , 60, 12207-12218	3.3	112
114	Hysteretic magnetisation curves in the granular Cu _{100-x} Co _x system. <i>Scripta Materialia</i> , 1999 , 11, 757-767		5
113	Optical noise and dynamical properties of liquid crystal comb polymers with different mesogenic groups. <i>Liquid Crystals</i> , 1997 , 22, 279-286	2.3	2
112	Correlation effects among nanometre-sized clusters in Cu-Co melt-spun alloys with giant magnetoresistance. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1997 , 76, 447-455		5
111	A structural investigation of amorphous and nanocrystalline. <i>Journal Physics D: Applied Physics</i> , 1996 , 29, 848-854	3	7
110	Grain size distribution in granular Cu _{100-x} Co through anhysteretic magnetisation curve analysis. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 157-158, 319-320	2.8	8
109	Giant magnetoresistance in magnetic granular Co ₁₅ Cu ₈₅ alloys annealed by direct-current Joule heating. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 164, 99-104	2.8	8
108	Elastic behaviour and structural evolution of nanocrystalline Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ produced by thermal ageing or joule-heating. <i>Physica B: Condensed Matter</i> , 1996 , 225, 94-102	2.8	3
107	Giant magnetoresistance in melt-spun granular Cu _{100-x} /Co _x alloys with correlated magnetic moments. <i>IEEE Transactions on Magnetics</i> , 1996 , 32, 4704-4706	2	2
106	Temperature behaviour of a liquid crystal comb polymer: Light scattering and noise of the scattered light. <i>Liquid Crystals</i> , 1996 , 20, 225-234	2.3	1
105	Mössbauer analysis of crystallization in Joule-heated Fe ₈₀ B ₂₀ . <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 313-314	2.8	1
104	Giant magnetoresistance in Joule heated Cu ₉₀ Co ₁₀ ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 617-618	2.8	6
103	Magnetic and magnetotransport properties in Co ₅ Cu ₉₅ melt-spun alloys. <i>European Physical Journal B</i> , 1995 , 98, 447-451	1.2	2
102	Magnetic properties and giant magnetoresistance in melt-spun Co-Cu alloys. <i>Journal of Applied Physics</i> , 1995 , 78, 392-397	2.5	50
101	Magnetic properties and giant magnetoresistance of magnetic granular Co ₁₀ Cu ₉₀ alloys obtained by direct-current joule heating. <i>Journal of Applied Physics</i> , 1995 , 78, 5062-5066	2.5	15
100	Stationary noise of the light scattered by a polymer-dispersed liquid crystal. <i>Liquid Crystals</i> , 1995 , 18, 555-562	2.3	5

99	Magnetic properties and giant magnetoresistance in melt-spun Co ₁₅ Cu ₈₅ alloys. <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 4081-4093	1.8	16
98	Magnetic properties and giant magnetoresistance in magnetic granular Co _x Cu _{100-x} alloys. <i>Journal Physics D: Applied Physics</i> , 1995 , 28, 1770-1777	3	13
97	Joule heating in amorphous metallic wires. <i>Journal Physics D: Applied Physics</i> , 1995 , 28, 2398-2403	3	24
96	Magnetic properties and giant magnetoresistance of melt-spun granular Cu _{100-x} Co _x alloys. <i>Physical Review B</i> , 1995 , 52, 15398-15411	3.3	193
95	Improved giant magnetoresistance in magnetic granular Co ₅ Cu ₉₅ alloys by direct-current joule heating. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1995 , 99, 159-161		2
94	. <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 461-463	2	5
93	. <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 480-482	2	5
92	An exact model of d.c. joule heating in amorphous metallic ribbons. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 179-180, 361-365	5.3	20
91	Nanocrystalline phase formation in amorphous Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ submitted to conventional annealing and Joule heating. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 179-180, 572-576	5.3	20
90	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	2.8	56
89	Mechanical spectroscopy and analytical TEM of structural transformation in the Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 1994 , 133, 357-361	2.8	3
88	Relaxation of magnetoresistance and magnetization in granular Cu ₉₀ Co ₁₀ obtained from rapidly quenched ribbons. <i>Journal of Applied Physics</i> , 1994 , 76, 6817-6819	2.5	6
87	. <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 4797-4799	2	9
86	Electrical-resistivity evolution in Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ during the amorphous-to-nanocrystalline transformation. <i>Journal of Non-Crystalline Solids</i> , 1993 , 156-158, 585-588	3.9	11
85	Improved ductility of nanocrystalline Fe _{73.5} Nb ₃ Cu ₁ Si _{13.5} B ₉ obtained by direct-current joule heating. <i>Applied Physics Letters</i> , 1993 , 63, 2759-2761	3.4	32
84	A study of the amorphous-to-nanocrystalline transformation in Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ through combined measurements of electrical resistivity, mechanical spectroscopy and TEM. <i>Scripta Materialia</i> , 1993 , 3, 433-440		11
83	dc Joule heating of amorphous metallic ribbons: Experimental aspects and model. <i>Review of Scientific Instruments</i> , 1993 , 64, 1053-1060	1.7	80
82	Kinetics of the amorphous-to-nanocrystalline transformation in Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ . <i>Journal of Applied Physics</i> , 1993 , 74, 3137-3143	2.5	61

81	Joule-heating effects in the amorphous Fe ₄₀ Ni ₄₀ B ₂₀ alloy. <i>Physical Review B</i> , 1993 , 47, 3118-3125	3.3	68
80	On the kinetics of viscosity field in amorphous ferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 112, 14-16	2.8	
79	Variation of the magnetic disaccommodation dynamics in zero-magnetostrictive amorphous ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 112, 36-38	2.8	
78	Effect of growth rate on the magnetic properties of Fe ₇ Al multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 104-107, 1767-1768	2.8	5
77	Mechanical and magnetic relaxation in ferromagnetic amorphous ribbons. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991 , 133, 325-327	5.3	
76	Permeability relaxation at constant magnetic induction in amorphous ferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 101, 49-51	2.8	2
75	Comparison between electrical resistivity and magnetic anisotropy in partially crystallized Fe ₇₈ B ₁₃ Si ₉ amorphous alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991 , 133, 124-126	5.3	4
74	Noise of the light scattered by a nematic liquid crystal near the Fréedericksz transition. <i>Physica Scripta</i> , 1991 , 44, 388-390	2.6	3
73	Suppression of the magnetic-permeability relaxation in nanocrystalline Fe _{73.5} Cu ₁ Nb ₃ Si _{13.5} B ₉ . <i>Applied Physics Letters</i> , 1991 , 59, 2454-2456	3.4	18
72	On the reversible long-time kinetics of the magnetic permeability relaxation in amorphous ferromagnets: New investigations. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1990 , 61, 727-732		2
71	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	2.8	6
70	Effect of microcrystal development on the magnetic properties of heat-treated amorphous Fe ₇₈ B ₁₃ Si ₉ . <i>Journal of Magnetism and Magnetic Materials</i> , 1990 , 83, 347-348	2.8	5
69	Planar Magnetic Anisotropy of Fe ₄₀ Ni ₄₀ B ₂₀ Ribbons Obtained with Different Quenching Rates. <i>Europhysics Letters</i> , 1990 , 13, 367-370	1.6	1
68	A study of the dynamics of magnetic disaccommodation in amorphous ferromagnets. I. Experimental results. <i>Journal of Applied Physics</i> , 1990 , 68, 4719-4723	2.5	1
67	A study of the dynamics of magnetic disaccommodation in amorphous ferromagnets. II. Theoretical considerations. <i>Journal of Applied Physics</i> , 1990 , 68, 4724-4727	2.5	1
66	Kinetic and structural aspects of magnetic phenomena in amorphous soft ferromagnets. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1990 , 61, 763-772		5
65	Magnetic properties of partially crystallized Fe ₇₈ B ₁₄ Si ₈ amorphous alloys. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1990 , 61, 579-586		5
64	Effect of annealing on the permeability relaxation of dissipative type in amorphous ferromagnets. <i>Physica Scripta</i> , 1989 , 39, 489-491	2.6	6

63	The generalised vibrational density of states of the metallic glass Fe ₄₀ Ni ₄₀ B ₂₀ determined by neutron inelastic scattering. <i>Journal of Physics Condensed Matter</i> , 1989 , 1, 5621-5629	1.8	4
62	Applied research on amorphous magnetic materials. <i>Hyperfine Interactions</i> , 1989 , 45, 35-53	0.8	0
61	Fe ₇₈ Ni ₁₄ Si ₈ B ₁₄ amorphous alloys characterized by Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , 1989 , 45, 331-335	0.8	
60	Viscosity field and magnetic-permeability aftereffect in amorphous ferromagnets: A kinetic approach. <i>Journal of Magnetism and Magnetic Materials</i> , 1989 , 82, 77-82	2.8	5
59	Structural study of Fe ₄₀ Ni ₄₀ B ₂₀ amorphous alloy. <i>Physica B: Condensed Matter</i> , 1989 , 156-157, 220-222	2.8	3
58	Fast dissipative and diffusional relaxation of the magnetic permeability in ferromagnetic metallic glasses. <i>Materials Science and Engineering</i> , 1988 , 99, 27-29		2
57	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	4.3	9
56	Kinetic analysis of structural relaxation in FeNiCrPB amorphous alloys by electrical resistivity measurements. <i>Materials Science and Engineering</i> , 1988 , 97, 537-539		6
55	Polarization transfer matrix for the transmission of light through liquid-crystal slabs. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1988 , 5, 2452	1.7	19
54	Kinetic analysis of structural relaxation of Fe-Ni based amorphous alloys by means of dsc and electrical resistivity measurements. <i>Journal of the Less Common Metals</i> , 1988 , 145, 375-381		5
53	Evidence for correlations among the ordering processes responsible for the permeability disaccommodation in amorphous ferromagnets. <i>Journal of Applied Physics</i> , 1988 , 63, 829-832	2.5	5
52	A study of the fast permeability relaxation in amorphous ferromagnets. <i>Journal of Applied Physics</i> , 1988 , 64, 4103-4107	2.5	7
51	Jones matrix treatment of electromagnetic wave propagation in anisotropic stratified media. <i>Physica Scripta</i> , 1988 , 37, 755-758	2.6	9
50	A Study of Plastic Deformation in Amorphous Fe ₆₇ Co ₁₈ Si ₁ B ₁₄ by Means of Magnetic Permeability Aftereffect Measurements*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1988 , 157, 353-357	3.1	2
49	Evidence for a magnetic permeability relaxation of dissipative type in amorphous ferromagnetic alloys. <i>Applied Physics Letters</i> , 1987 , 51, 142-144	3.4	11
48	High-frequency domain wall motion and energy dissipation in soft ferromagnetic metallic glasses. <i>Journal of Applied Physics</i> , 1987 , 61, 1237-1239	2.5	6
47	Permeability-relaxation study of structural distortions and energy dissipation in amorphous ferromagnets. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1987 , 56, 167-175		5
46	Low temperature behavior of the magnetic permeability aftereffect in amorphous ferromagnetic alloys. <i>IEEE Transactions on Magnetics</i> , 1987 , 23, 2542-2544	2	2

45	Effect of stress on the magnetic permeability aftereffect of amorphous ferromagnetic alloys. <i>IEEE Transactions on Magnetics</i> , 1986 , 22, 430-432	2	
44	Fast contributions to the magnetic permeability aftereffect in amorphous ferromagnetic ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 1986 , 54-57, 273-274	2.8	9
43	On a white frequency-spectrum method for the measurement of the dynamic response of magnetic bodies in the linear regime. <i>Journal of Physics E: Scientific Instruments</i> , 1986 , 19, 927-930		
42	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	3.3	52
41	A study of the aftereffect of the magnetic permeability in Co-rich amorphous ferromagnetic alloys. <i>Journal of Applied Physics</i> , 1986 , 60, 3258-3262	2.5	4
40	4 × 4 matrix approach to chiral liquid-crystal optics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1986 , 3, 424	1.7	16
39	Reversible and irreversible processes of structural relaxation and dynamic young modulus behaviour in the Fe ₄₀ Ni ₃₈ Mo ₄ B ₁₈ amorphous alloy. <i>Physica Status Solidi A</i> , 1985 , 88, 521-527		7
38	Optical properties of anisotropic periodic helical structures. <i>Journal De Physique</i> , 1985 , 46, 573-582		25
37	Variations of magnetic aftereffect and position lifetime in an amorphous ferromagnetic alloy annealed at different temperatures. <i>Journal of Magnetism and Magnetic Materials</i> , 1985 , 49, 189-194	2.8	1
36	Temperature dependence of the frequency spectrum of the magnetic permeability aftereffect in Co-rich amorphous metals. <i>Journal of Non-Crystalline Solids</i> , 1984 , 61-62, 1179-1184	3.9	2
35	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	3.9	6
34	Approach to saturation of polycrystalline materials at intermediate fields: The role of internal demagnetizing fields. <i>Journal of Magnetism and Magnetic Materials</i> , 1984 , 41, 299-302	2.8	2
33	On some new methods for the measurement of stochastic characters of local magnetization and of magnetic viscosity phenomena. <i>Journal of Magnetism and Magnetic Materials</i> , 1984 , 41, 209-215	2.8	5
32	Extended frequency analysis of the permeability aftereffect in amorphous soft magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , 1984 , 41, 376-378	2.8	2
31	Structural approach to the permeability aftereffect in zero- magnetostrictive amorphous alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1984 , 42, 148-150	2.8	2
30	Influence of structural relaxation on the magnetic permeability aftereffect of amorphous ferromagnetic alloys. <i>Solid State Communications</i> , 1983 , 47, 951-954	1.6	3
29	Magnetic permeability after-effect and structural defects of amorphous ferromagnetic alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 1983 , 31-34, 1527-1532	2.8	12
28	Shear transformations and the relaxation of the magnetic permeability aftereffect in amorphous ferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1983 , 39, 279-284	2.8	4

27	Magnetic hyperfine field distribution and structural relaxation of amorphous (Fe _{81.5} B _{14.5} Si ₄) prepared with different quenching rates. <i>Journal of Magnetism and Magnetic Materials</i> , 1983 , 31-34, 1591-1593	2.8	1593
26	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		5
25	New approach to the study of the magnetic permeability aftereffect of amorphous ferromagnetic alloys. <i>Physical Review B</i> , 1982 , 26, 6141-6149	3.3	108
24	Structural relaxation and irreversible changes of electrical resistivity of Fe-Ni-Mo-B amorphous alloys. <i>Journal of Applied Physics</i> , 1982 , 53, 8798-8804	2.5	36
23	Magnetic permeability after-effect in Fe ₈₀ Cr ₁₀ B and Fe ₈₀ Ni ₁₀ B amorphous systems. <i>Journal of Applied Physics</i> , 1982 , 53, 7849-7851	2.5	7
22	Effect of the spike closure domains on the remanence and the magnetization curve in grain-oriented Si-Fe sheets. <i>Journal of Magnetism and Magnetic Materials</i> , 1982 , 26, 25-28	2.8	3
21	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	2.8	7
20	Mössbauer spectroscopy of amorphous Fe ₈₀ Si ₁₀ B alloys with different free volume content. <i>Journal of Applied Physics</i> , 1982 , 53, 7750-7752	2.5	13
19	Free volume dependence of the electrical resistivity of metallic glasses prepared with different quenching rates. <i>Solid State Communications</i> , 1982 , 43, 821-824	1.6	34
18	Viscosity field and magnetic aftereffects in amorphous (Fe-Ni-P-B) alloys. <i>IEEE Transactions on Magnetics</i> , 1981 , 17, 1481-1486	2	32
17	. <i>IEEE Transactions on Magnetics</i> , 1981 , 17, 2863-2865	2	6
16	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	2.5	12
15	Torque measurements of induced anisotropy in amorphous Fe ₈₀ Ni ₂₀ +x alloys. <i>Journal of Applied Physics</i> , 1981 , 52, 3553-3556	2.5	18
14	Influence of structural instabilities on the spontaneous magnetization of amorphous ferromagnets. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della Societa Italiana Di Fisica</i> , 1980 , 29, 13-16		1
13	Magnetostriction behaviour associated with closure domain spikes in ferrous magnetic laminations. <i>Journal of Magnetism and Magnetic Materials</i> , 1980 , 15-18, 1430-1432	2.8	5
12	Structural instabilities and magnetic relaxation in amorphous ferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 1980 , 15-18, 1361-1363	2.8	22
11	Magnetic after-effects and structural instabilities in amorphous soft magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , 1980 , 19, 281-283	2.8	37
10	Structural instabilities and magnetic properties of amorphous ferromagnets. <i>Journal of Applied Physics</i> , 1979 , 50, 7662	2.5	2

9	Magnetostriction behavior in isotropic and cube-on-face 3% SiFe laminations. <i>Journal of Applied Physics</i> , 1979 , 50, 7716	2.5	8
8	Crystal field theory and magnetic properties of transition metal ions in amorphous compounds. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della Societ�Italiana Di Fisica</i> , 1978 , 22, 349-354		1
7	Theory of negative magnetostriction in grain oriented 3% SiFe for various inductions and applied stresses. <i>IEEE Transactions on Magnetism</i> , 1978 , 14, 362-364	2	20
6	Theory of directional order and induced anisotropy energy in ferromagnetic amorphous systems. <i>IEEE Transactions on Magnetism</i> , 1978 , 14, 1050-1053	2	20
5	Theoretical study of irreversible Bloch-wall jumps and static losses. <i>Journal of Applied Physics</i> , 1977 , 48, 4649-4655	2.5	20
4	Torque magnetometer measurements of the temperature dependence of induced anisotropy energy and of saturation magnetization in amorphous Fe ₄₀ Ni ₄₀ P ₁₄ B ₆ . <i>Solid State Communications</i> , 1977 , 24, 517-519	1.6	14
3	Temperature dependence of directional order anisotropy energy induced by neutron irradiation in Ni alloys. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1977 , 86-88, 303-305		
2	A contribution to the theoretical study of induced anisotropy energy in ferromagnetic alloys. <i>Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods</i> , 1976 , 31, 107-119		1
1	Directional-order anisotropy energy induced by neutron irradiation and its temperature dependence in Ni-Cr 5%. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della Societ�Italiana Di Fisica</i> , 1974 , 11, 665-667		1