Paolo Allia

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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	Granular Cu-Co alloys as interacting superparamagnets. *Physical Review B*, **2001**, 64,	3.3	276
223	Magnetic properties and giant magnetoresistance of melt-spun granular Cu100-x-Cox alloys. *Physical Review B*, **1995**, 52, 15398-15411	3.3	193
222	Magnetic hysteresis based on dipolar interactions in granular magnetic systems. *Physical Review B*, **1999**, 60, 12207-12218	3.3	112
221	New approach to the study of the magnetic permeability aftereffect of amorphous ferromagnetic alloys. *Physical Review B*, **1982**, 26, 6141-6149	3.3	108
220	The influence of crystallised Fe3O4 on the magnetic properties of coprecipitation-derived ferrimagnetic glass-ceramics. *Acta Biomaterialia*, **2005**, 1, 421-9	10.8	91
219	dc Joule heating of amorphous metallic ribbons: Experimental aspects and model. *Review of Scientific Instruments*, **1993**, 64, 1053-1060	1.7	80
218	Magnetic properties of the ferrimagnetic glass-ceramics for hyperthermia. *Journal of Magnetism and Magnetic Materials*, **2006**, 305, 529-533	2.8	73
217	Joule-heating effects in the amorphous Fe40Ni40B20 alloy. *Physical Review B*, **1993**, 47, 3118-3125	3.3	68
216	Kinetics of the amorphous-to-nanocrystalline transformation in Fe73.5Cu1Nb3Si13.5B9. *Journal of Applied Physics*, **1993**, 74, 3137-3143	2.5	61
215	Soft nanocrystalline ferromagnetic alloys with improved ductility obtained through dc Joule heating of amorphous ribbons. *Journal of Magnetism and Magnetic Materials*, **1994**, 133, 243-247	2.8	56
214	Local symmetries and structural distortions in amorphous ferromagnetic metals: A study of their contributions to the aftereffect of the magnetic permeability. *Physical Review B*, **1986**, 33, 422-429	3.3	52
213	Magnetic properties and giant magnetoresistance in melt-spun Co-Cu alloys. *Journal of Applied Physics*, **1995**, 78, 392-397	2.5	50
212	Magnetic Properties of Nanocomposites. *Applied Sciences (Switzerland)*, **2019**, 9, 212	2.6	45
211	Sonochemical synthesis of versatile hydrophilic magnetite nanoparticles. *Ultrasonics Sonochemistry*, **2012**, 19, 877-82	8.9	41
210	Magnetic properties of jet-printer inks containing dispersed magnetite nanoparticles. *European Physical Journal B*, **2013**, 86, 1	1.2	40
209	Temperature effect on the magnetic properties of the coprecipitation derived ferrimagnetic glass-ceramics. *Journal of Magnetism and Magnetic Materials*, **2006**, 300, 412-417	2.8	40
208	Magnetic after-effects and structural instabilities in amorphous soft magnetic materials. *Journal of Magnetism and Magnetic Materials*, **1980**, 19, 281-283	2.8	37

207	Structural relaxation and irreversible changes of electrical resistivity of Fe-Ni-Mo-B amorphous alloys. *Journal of Applied Physics*, **1982**, 53, 8798-8804	2.5	36
206	Fe3O4 nanoparticles and nanocomposites with potential application in biomedicine and in communication technologies: Nanoparticle aggregation, interaction, and effective magnetic anisotropy. *Journal of Applied Physics*, **2014**, 116, 113903	2.5	34
205	Free volume dependence of the electrical resistivity of metallic glasses prepared with different quenching rates. *Solid State Communications*, **1982**, 43, 821-824	1.6	34
204	Poly(ethylene glycol)-Coated Fe3O4 Nanoparticles by UV-Thiol-Ene Addition of PEG Dithiol on Vinyl-Functionalized Magnetite Surface. *Macromolecular Chemistry and Physics*, **2011**, 212, 1629-1635	2.6	33
203	Evidence for magnetic interactions among magnetite nanoparticles dispersed in photoreticulated PEGDA-600 matrix. *Journal of Nanoparticle Research*, **2011**, 13, 5615-5626	2.3	32
202	Dynamic effects of dipolar interactions on the magnetic behavior of magnetite nanoparticles. *Journal of Nanoparticle Research*, **2011**, 13, 7277-7293	2.3	32
201	Improved ductility of nanocrystalline Fe73.5Nb3Cu1Si13.5B9 obtained by direct-current joule heating. *Applied Physics Letters*, **1993**, 63, 2759-2761	3.4	32
200	Viscosity field and magnetic aftereffects in amorphous (Fe-Ni-P-B) alloys. *IEEE Transactions on Magnetics*, **1981**, 17, 1481-1486	2	32
199	Photoinitiator-Free UV-Cured Acrylic Coatings Containing Magnetite Nanoparticles. *Macromolecular Chemistry and Physics*, **2010**, 211, 2530-2535	2.6	30
198	UV-cured transparent magnetic polymer nanocomposites. *Polymer*, **2013**, 54, 4472-4479	3.9	29
197	Eu-doped □Fe2O3 nanoparticles with modified magnetic properties. *Journal of Solid State Chemistry*, **2013**, 201, 302-311	3.3	28
196	Magnetic correlation states in cosputtered granular Ag100□Fex films. *Physical Review B*, **2006**, 73,	3.3	28
195	Magnetoresistance and nanoscopic magnetic coherence in some frustrated ferromagnets. *Physical Review B*, **2003**, 67,	3.3	28
194	Single BiFeO3 and mixed BiFeO3/Fe2O3/Bi2Fe4O9 ferromagnetic photocatalysts for solar light driven water oxidation and dye pollutants degradation. *Journal of Industrial and Engineering Chemistry*, **2018**, 63, 437-448	6.3	26
193	Optical properties of anisotropic periodic helical structures. *Journal De Physique*, **1985**, 46, 573-582		25
192	Al/Fe isomorphic substitution versus Fe2O3 clusters formation in Fe-doped aluminosilicate nanotubes (imogolite). *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	24
191	Joule heating in amorphous metallic wires. *Journal Physics D: Applied Physics*, **1995**, 28, 2398-2403	3	24
190	Polymer grafting onto magnetite nanoparticles by □lick□ reaction. *Journal of Materials Science*, **2012**, 47, 412-419	4.3	23

189	Photo-Cured Epoxy Networks Functionalized With Fe3O4 Generated by Non-hydrolytic Sol–Gel Process. *Macromolecular Chemistry and Physics*, **2013**, 214, 508-516	2.6	22
188	Structural instabilities and magnetic relaxation in amorphous ferromagnets. *Journal of Magnetism and Magnetic Materials*, **1980**, 15-18, 1361-1363	2.8	22
187	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	2.8	21
186	Proximity magnetoresistance in Au80Fe20 and Au70Fe30 below the ordering temperature. *Journal of Applied Physics*, **2002**, 91, 5936-5939	2.5	21
185	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, 337-48	4	20
184	Microwave-assisted nonaqueous sol–gel synthesis of highly crystalline magnetite nanocrystals. *Materials Chemistry and Physics*, **2014**, 148, 117-124	4.4	20
183	Epoxy nanocomposites functionalized with in situ generated magnetite nanocrystals: Microstructure, magnetic properties, interaction among magnetic particles. *Polymer*, **2015**, 59, 278-289	3.9	20
182	Magnetic and magnetotransport properties of arrays of nanostructured antidots obtained by self-assembling polystyrene nanosphere lithography. *Journal of Applied Physics*, **2010**, 107, 09B502	2.5	20
181	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	5.3	20
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179	Theoretical study of irreversible Bloch-wall jumps and static losses. *Journal of Applied Physics*, **1977**, 48, 4649-4655	2.5	20
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176	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	1.7	19
175	Magnetic metal-ceramic nanocomposites obtained from cation-exchanged zeolite by heat treatment in reducing atmosphere. *Microporous and Mesoporous Materials*, **2018**, 268, 131-143	5.3	18
174	Observation of isotropic giant magnetoresistance in paramagnetic Au80Fe20. *Physical Review B*, **2001**, 63,	3.3	18
173	Suppression of the magnetic-permeability relaxation in nanocrystalline Fe73.5Cu1Nb3Si13.5B9. *Applied Physics Letters*, **1991**, 59, 2454-2456	3.4	18
172	Torque measurements of induced anisotropy in amorphous Fe80□B20+x alloys. *Journal of Applied Physics*, **1981**, 52, 3553-3556	2.5	18

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170	Observation of magnetoresistance in core□shell Fe□e oxide systems. *Journal of Applied Physics*, **2002**, 91, 8593	2.5	17
169	Temperature-dependent heating efficiency of magnetic nanoparticles for applications in precision nanomedicine. *Nanoscale*, **2020**, 12, 6360-6377	7.7	16
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165	Magnetic properties and giant magnetoresistance in melt-spun Co15Cu85alloys. *Journal of Physics Condensed Matter*, **1995**, 7, 4081-4093	1.8	16
164	4 □4 matrix approach to chyral liquid-crystal optics. *Journal of the Optical Society of America B: Optical Physics*, **1986**, 3, 424	1.7	16
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157	Morphology and magnetic properties of island-like Co and Ni films obtained by de-wetting. *Journal of Nanoparticle Research*, **2011**, 13, 245-255	2.3	13
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155	Magnetic properties and giant magnetoresistance in magnetic granular CoxCu100-xalloys. *Journal Physics D: Applied Physics*, **1995**, 28, 1770-1777	3	13
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153	Nonaqueous Sol□el Synthesis of Magnetic Iron Oxides Nanocrystals. *Journal of the American Ceramic Society*, **2013**, 96, 3169-3175	3.8	12
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151	Magnetic and magnetotransport properties in metastable granular systems. *Journal of Alloys and Compounds*, **2007**, 434-435, 594-597	5.7	12
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147	Magnetite-epoxy nanocomposites obtained by the reactive suspension method: Microstructural, thermo-mechanical and magnetic properties. *European Polymer Journal*, **2017**, 94, 354-365	5.2	11
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126	Magnetic properties of pure and Eu-doped hematite nanoparticles. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	7
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120	Investigation of static and dynamic magnetic properties of Joule heated granular Co10Cu90 ribbons. *Journal of Magnetism and Magnetic Materials*, **1999**, 202, 123-132	2.8	7
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117	Magnetic permeability after-effect in FeCrB and FeCuB amorphous systems. *Journal of Applied Physics*, **1982**, 53, 7849-7851	2.5	7
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96	Magnetic and magnetotransport properties of a Co□n evaporated trilayer. *Journal of Physics Condensed Matter*, **2008**, 20, 345213	1.8	5
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93	Stress dependence of magnetization processes: Reversals and relaxation in FexCo85□B15 amorphous ribbons. *Physical Review B*, **2001**, 63,	3.3	5
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