

# Luis Fernandez Barquin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

157  
papers

2,113  
citations

24  
h-index

37  
g-index

165  
ext. papers

2,346  
ext. citations

3.2  
avg, IF

4.52  
L-index

#	Paper	IF	Citations
157	Improved photocatalytic and antibacterial performance of Cr doped TiO <sub>2</sub> nanoparticles. <i>Surfaces and Interfaces</i> , <b>2021</b> , 22, 100867	4.1	6
156	Nanoflowers Versus Magnetosomes: Comparison Between Two Promising Candidates for Magnetic Hyperthermia Therapy. <i>IEEE Access</i> , <b>2021</b> , 9, 99552-99561	3.5	3
155	Identifying the presence of magnetite in an ensemble of iron-oxide nanoparticles: a comparative neutron diffraction study between bulk and nanoscale. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 3491-3496	5.1	1
154	Heat capacity of nanocrystalline Yb <sub>2</sub> O <sub>3</sub> . <i>Ceramics International</i> , <b>2021</b> ,	5.1	1
153	Exploring the Different Degrees of Magnetic Disorder in TbRCu Nanoparticle Alloys. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	3
152	Investigating the Size and Microstrain Influence in the Magnetic Order/Disorder State of GdCu Nanoparticles. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	3
151	Probing the stability and magnetic properties of magnetosome chains in freeze-dried magnetotactic bacteria. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 1115-1121	5.1	8
150	Dye-doped biodegradable nanoparticle SiO coating on zinc- and iron-oxide nanoparticles to improve biocompatibility and for in vivo imaging studies. <i>Nanoscale</i> , <b>2020</b> , 12, 6164-6175	7.7	10
149	Magnetic structure factor of correlated moments in small-angle neutron scattering. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	3
148	Controlled Magnetic Anisotropy in Single Domain Mn-doped Biosynthesized Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 22827-22838	3.8	3
147	Magnetotactic bacteria for cancer therapy. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 070902	2.5	20
146	Revealing a masked Verwey transition in nanoparticles of coexisting Fe-oxide phases.. <i>RSC Advances</i> , <b>2020</b> , 11, 390-396	3.7	1
145	Supraferromagnetic correlations in clusters of magnetic nanoflowers. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 132406	3.4	21
144	Negative Thermal Expansion in Nanostructured Intermediate-Valence YbAl <sub>3</sub> . <i>IEEE Magnetics Letters</i> , <b>2019</b> , 10, 1-5	1.6	
143	Cluster-glass dynamics of the Griffiths phase in Tb <sub>5-x</sub> LaxSi <sub>2</sub> Ge <sub>2</sub> . <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	12
142	Microstructural-defect-induced Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	13
141	Coexistence of ferromagnetism and spin glass state in YbNi <sub>2</sub> nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 475, 264-270	2.8	2

140	Breakdown of the coherence effects and Fermi liquid behavior in YbAl nanoparticles. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 135604	1.8	3
139	Configuration of the magnetosome chain: a natural magnetic nanoarchitecture. <i>Nanoscale</i> , <b>2018</b> , 10, 7407-7419	7.7	34
138	Structure and spin glass behavior in La <sub>0.77</sub> Mg <sub>0.23-x</sub> MnO <sub>3</sub> (0 ≤ x ≤ 0.2) manganites. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 738, 528-539	5.7	6
137	Relating Magnetic Properties and High Hyperthermia Performance of Iron Oxide Nanoflowers. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 3068-3077	3.8	78
136	Magnetic Study of Co-Doped Magnetosome Chains. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 7541-7550	9.8	14
135	Tuning the structure and magnetic behavior of Ni-Ir-based nanoparticles in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 10247-10257	3.6	8
134	Kondo temperature and Heavy Fermion behavior in Yb <sub>1-x</sub> YxCuAl series of alloys. <i>Physica B: Condensed Matter</i> , <b>2018</b> , 536, 176-181	2.8	1
133	Dipolar-coupled moment correlations in clusters of magnetic nanoparticles. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	31
132	Magnetic Nanoparticles, Synthesis, Properties, and Applications <b>2018</b> , 1-40		13
131	Influence of the bacterial growth phase on the magnetic properties of magnetosomes synthesized by <i>Magnetospirillum gryphiswaldense</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2017</b> , 1861, 1507-1514	4.1514	17
130	Structural and magnetic properties of multi-core nanoparticles analysed using a generalised numerical inversion method. <i>Scientific Reports</i> , <b>2017</b> , 7, 45990	4.9	32
129	Magnetic behavior of the nanophase of YbNi <sub>2</sub> alloys. <i>Physics of Metals and Metallography</i> , <b>2017</b> , 118, 341-345	1.2	2
128	Magnetization reversal in circular vortex dots of small radius. <i>Nanoscale</i> , <b>2017</b> , 9, 11269-11278	7.7	21
127	Distribution functions of magnetic nanoparticles determined by a numerical inversion method. <i>New Journal of Physics</i> , <b>2017</b> , 19, 073012	2.9	33
126	Surfactant-assisted production of TbCu <sub>2</sub> nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2017</b> , 19, 1	2.3	4
125	Magnetic clusters on the verge of long range ferromagnetism in Lu(Fe <sub>0.75</sub> Al <sub>0.25</sub> ) <sub>2</sub> and Lu(Fe <sub>0.50</sub> Al <sub>0.50</sub> ) <sub>2</sub> alloys. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 704-714	5.7	2
124	Magnetic small-angle neutron scattering on bulk metallic glasses: A feasibility study for imaging displacement fields. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	4
123	Bridging exchange bias effect in NiO and Ni(core)@NiO(shell) nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 400, 236-241	2.8	14

122	Magnetic nanoscopic correlations in the crossover between a superspin glass and a superferromagnet. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 143902	2.5	9
121	Interacting Superparamagnetic Iron(II) Oxide Nanoparticles: Synthesis and Characterization in Ionic Liquids. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 865-70	5.1	13
120	Disentangling magnetic core/shell morphologies in Co-based nanoparticles. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2302-2311	7.1	9
119	Magnetic induction heating as a new tool for the synthesis of Fe <sub>3</sub> O <sub>4</sub> @NiO nanoparticle systems. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	10
118	Scrutinizing the role of size reduction on the exchange bias and dynamic magnetic behavior in NiO nanoparticles. <i>Nanotechnology</i> , <b>2015</b> , 26, 305705	3.4	35
117	Magnetic disorder in TbAl <sub>2</sub> nanoparticles. <i>Materials Research Express</i> , <b>2015</b> , 2, 075001	1.7	3
116	Unravelling the onset of the exchange bias effect in Ni(core)@NiO(shell) nanoparticles embedded in a mesoporous carbon matrix. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 5674-5682	7.1	20
115	1-Ethyl-2,3-dimethylimidazolium paramagnetic ionic liquids with 3D magnetic ordering in its solid state: synthesis, structure and magneto-structural correlations. <i>RSC Advances</i> , <b>2015</b> , 5, 60835-60848	3.7	19
114	Breakdown of magnetism in sub-nanometric Ni clusters embedded in Ag. <i>Nanotechnology</i> , <b>2015</b> , 26, 455303	3.4	9
113	Low Temperature Magnetic Ordering of the Magnetic Ionic Plastic Crystal, Choline[FeCl <sub>4</sub> ]. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 663, 012012	0.3	
112	Neutron Powder Diffraction study of the Magnetic Ionic Liquid Emim[FeCl <sub>4</sub> ] and its deuterated phase. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 663, 012008	0.3	1
111	On the exchange bias effect in NiO nanoparticles with a core(antiferromagnetic)/shell (spin glass) morphology. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 663, 012001	0.3	2
110	Magnetic phase diagram of superantiferromagnetic TbCu <sub>2</sub> nanoparticles. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 496002	1.8	10
109	Interplay between microstructure and magnetism in NiO nanoparticles: breakdown of the antiferromagnetic order. <i>Nanoscale</i> , <b>2014</b> , 6, 457-65	7.7	72
108	Magnetic, Structural, and Particle Size Analysis of Single- and Multi-Core Magnetic Nanoparticles. <i>IEEE Transactions on Magnetism</i> , <b>2014</b> , 50, 1-4	2	11
107	. <i>IEEE Transactions on Magnetism</i> , <b>2014</b> , 50, 1-5	2	
106	Probing magnetic phase separation in manganites by nonlinear susceptibility. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 448, 223-225	2.8	9
105	Magnetic disorder in diluted Fe <sub>x</sub> M <sub>100-x</sub> granular thin films (M=Au, Ag, Cu; x<1). <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 276001	1.8	10

104	Size-induced superantiferromagnetism with reentrant spin-glass behavior in metallic nanoparticles of TbCu <sub>2</sub> . <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	21
103	Dynamics of AC susceptibility and coercivity behavior in nanocrystalline TbAl <sub>1.5</sub> Fe <sub>0.5</sub> alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 326, 58-65	2.8	3
102	Interfacial magnetic coupling between Fe nanoparticles in FeAg granular alloys. <i>Nanotechnology</i> , <b>2012</b> , 23, 025705	3.4	22
101	YbNi <sub>2</sub> : A heavy fermion ferromagnet. <i>Solid State Communications</i> , <b>2012</b> , 152, 1834-1837	1.6	13
100	Nonlinear susceptibilities as a probe to unambiguously distinguish between canonical and cluster spin glasses. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	40
99	Scrutinising magnetic disorder through metastable 3d- and 4f-nanostructured alloys. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S259-S264	5.7	3
98	Intrinsic magnetic relaxation in goethite. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	13
97	Magnetic properties of TbAl <sub>2</sub> nanometric alloys. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 7482-5	1.3	4
96	Poly(methyl methacrylate) coating of soft magnetic amorphous and crystalline Fe <sub>70</sub> Co <sub>30</sub> B nanoparticles by chemical reduction. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 1843-51	1.3	1
95	Antiferromagnetic behaviour of Tb <sub>2</sub> Al alloy. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 325, 012023	0.3	1
94	Crossover from superspin glass to superferromagnet in Fe <sub>70</sub> Ag <sub>30</sub> B nanostructured thin films (2008). <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	59
93	Phonon softening on the specific heat of nanocrystalline metals. <i>Nanotechnology</i> , <b>2010</b> , 21, 445702	3.4	15
92	The role of boron on the magneto-caloric effect of FeZrB metallic glasses. <i>Intermetallics</i> , <b>2010</b> , 18, 2464-2467	3.5	26
91	Magneto-caloric effect in FeZrB amorphous alloys near room temperature. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 504, S150-S154	5.7	32
90	Observation of isotropic-dipolar to isotropic-Heisenberg crossover in Co- and Ni-substituted manganites. <i>New Journal of Physics</i> , <b>2010</b> , 12, 093039	2.9	18
89	Magnetization and specific heat of nanocrystalline rare-earth TbAl <sub>2</sub> , TbCu <sub>2</sub> and GdAl <sub>2</sub> alloys. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 072080	0.3	2
88	Magnetic disorder in nanostructured Fe <sub>70</sub> Au <sub>30</sub> films and Fe <sub>14</sub> Au <sub>86</sub> powders. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 072028	0.3	
87	Antiferromagnetic-spin-fluctuation-mediated pairing as a likely mechanism for unconventional superconductivity in LaAg <sub>1-x</sub> Mn <sub>x</sub> alloys. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 073901	2.5	4

86	Stress-induced large Curie temperature enhancement in Fe <sub>64</sub> Ni <sub>36</sub> Invar alloy. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	58
85	Influence of the interface on the electronic channel switching of a Fe/Ag thin film on a Si substrate. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 082103	3.4	3
84	Structural, Magnetic and Transport Properties of Ni-Fe-Al Alloys. <i>Materials Science Forum</i> , <b>2009</b> , 635, 111-116	0.4	
83	Correction to [Influence of the Si Substrate on the Transport and Magnetotransport Properties of Nanostructured Fe-Ag Thin Films][Nov 09 2784-2787]. <i>IEEE Transactions on Magnetism</i> , <b>2009</b> , 45, 3365-3365		2
82	Critical current density and flux pinning in an unconventional superconductor. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2009</b> , 374, 335-338	2.3	2
81	Synthesis of superparamagnetic iron(III) oxide nanowires in double-walled carbon nanotubes. <i>Chemical Communications</i> , <b>2009</b> , 6664-6	5.8	19
80	Collective magnetic behaviors of Fe/Ag nanostructured thin films above the percolation limit. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 07B513	2.5	3
79	Spin relaxation in nanophased manganites. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 5258-5260	3.9	0
78	Influence of the Si Substrate on the Transport and Magnetotransport Properties of Nanostructured Fe-Ag Thin Films. <i>IEEE Transactions on Magnetism</i> , <b>2008</b> , 44, 2784-2787	2	3
77	Reduction of the Yb valence in YbAl <sub>3</sub> nanoparticles. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	20
76	Dynamics of the Magnetic Susceptibility of Fe <sub>x</sub> Al <sub>100-x</sub> (x = 70, 71) Alloys. <i>IEEE Transactions on Magnetism</i> , <b>2008</b> , 44, 3883-3886	2	2
75	Correlation between site preference of ternary Mn addition in LaAg and superconductivity. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 013920	2.5	2
74	Cluster-glass percolative scenario in CeNi <sub>1-x</sub> Cu <sub>x</sub> studied by very low-temperature ac susceptibility and dc magnetization. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	68
73	Exchange-enhanced spin fluctuations in a new unconventional superconductor. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, e313-e315	2.8	2
72	Spin-glass behavior of mechanically milled. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, e506-e508	2.8	5
71	The role of the interface on the magnetic behaviour of granular Fe <sub>50</sub> Ag <sub>50</sub> film. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 2510-2512	2.8	1
70	SANS evidence of magnetic correlations among nanoparticles in granular Fe <sub>22</sub> Cu <sub>14</sub> Ag <sub>64</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 2518-2520	2.8	1
69	Size effects in the magnetic behaviour of TbAl <sub>2</sub> milled alloys. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 186214	1.8	24

68	Neutron spin echo evidence of mesoscopic spin correlations among Fe(Cu) ferromagnetic nanoparticles in a silver diamagnetic matrix. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	11
67	X-ray absorption analysis of core/shell magnetic (Fe,Co)B nanoparticles of amorphous and crystalline structure obtained by chemical reduction. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 733-737	3.9	5
66	Thermal and magnetic behavior of a nanocrystalline Fe(Ni, Co) based alloy. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 865-868	3.9	16
65	Spin disorder in Fe-doped manganites. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 757-762	3.9	6
64	Local magnetism in the nanoscale granular alloy. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 374-375, 67-70	2.8	2
63	Magneto-volume effects in FeCu solid solutions. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 300, 229-233	2.8	17
62	Unconventional superconductivity in LaAg <sub>1-x</sub> Mn <sub>x</sub> : Relevance of spin-fluctuation-mediated pairing. <i>Europhysics Letters</i> , <b>2006</b> , 74, 138-144	1.6	5
61	Thermoelastic martensitic transformation in ferromagnetic NiFeAl alloys: Effect of site disorder. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 093119	3.4	24
60	Role of disorder and competing ferromagnetic and antiferromagnetic interactions in the magnetic, electrical, and dynamic properties of La <sub>0.7</sub> Pb <sub>0.3</sub> (Mn <sub>1-x</sub> Fex)O <sub>3</sub> manganites. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	25
59	The role of disorder in Fe-doped CMR manganites as explored by BR spectroscopy. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 374-375, 63-66	2.8	1
58	Non-linear ac susceptibility behaviour of collective dynamics in heterogeneous nanomagnetic systems. <i>Journal of Physics: Conference Series</i> , <b>2005</b> , 17, 87-100	0.3	16
57	Small-angle neutron scattering study of a magnetically inhomogeneous amorphous alloy with reentrant behavior. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	35
56	High-temperature induced ferromagnetism on Fe precipitates in FeCu solid solutions. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	42
55	Interfacial exchange pinning in amorphous iron-boron nanoparticles. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	17
54	Spin-glass like behaviour in Fe-containing manganites. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, E983-E985	2.8	5
53	Static and dynamic magnetic properties of mechanically alloyed Fe <sub>9</sub> Cu <sub>5</sub> Ag <sub>86</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, E1177-E1179	2.8	1
52	Invar effect in fcc-FeCu solid solutions. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	57
51	Dynamic susceptibility of reentrant Fe-rich inhomogeneous amorphous alloys. <i>European Physical Journal B</i> , <b>2003</b> , 35, 3-12	1.2	32

50	Nanoscale alloys prepared by sodium borohydride reduction of aqueous FeCu and CoCu solutions. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 254-255, 14-16	2.8	13
49	Magnetic properties of nanoscale Fe <sub>x</sub> Cu <sub>x</sub> Ag <sub>100-x</sub> (x=15, 35) granular alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 254-255, 79-81	2.8	4
48	Microstructural study of joule heated nanocrystalline alloys using in situ neutron diffraction. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 254-255, 504-506	2.8	4
47	Relationship between the nanostructure of Co <sub>15</sub> Cu <sub>85</sub> melt-spun alloys and the AC-susceptibility behaviour. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 262, 97-101	2.8	2
46	Non-dipolar magnetic coupling in a strongly interacting superparamagnet: nanogranular Fe <sub>26</sub> Cu <sub>8</sub> Ag <sub>66</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 266, 131-141	2.8	20
45	Reentrant spin-glass behavior in Fe <sub>2</sub> rB amorphous alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 329, 94-99	3.9	6
44	Self-propagating high temperature synthesis of MFe <sub>12</sub> O <sub>19</sub> (M=Sr,Ba) from the reactions of metal superoxides and iron metal. <i>Journal of Materials Processing Technology</i> , <b>2001</b> , 110, 239-243	5.3	22
43	Magnetic relaxation in the nanoscale granular alloy Fe <sub>20</sub> Cu <sub>20</sub> Ag <sub>60</sub> . <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	21
42	Survey of conditions to produce metalBoron amorphous and nanocrystalline alloys by chemical reduction. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 287, 20-25	3.9	12
41	Moment canting and structural anisotropy in amorphous alloys: experiments using synchrotron MBSbauer radiation. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 287, 81-87	3.9	14
40	Inhomogeneous spin glass and mixed phases in cerium compounds. <i>Journal of Non-Crystalline Solids</i> , <b>2001</b> , 287, 318-323	3.9	4
39	Magnetic and nuclear structure of the perovskite-like oxides (LaBi) <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> . <i>Physica B: Condensed Matter</i> , <b>2000</b> , 276-278, 718-719	2.8	15
38	Joule heating nanocrystallization of FeZrCuB glass studied by neutron diffraction. <i>Physica B: Condensed Matter</i> , <b>2000</b> , 276-278, 461-462	2.8	2
37	Low-temperature magnetic properties of Fe nanograins in an amorphous Fe-Zr-B matrix. <i>Physical Review B</i> , <b>2000</b> , 61, 6150-6155	3.3	39
36	Thermoremanence anomaly in Fe-Zr(B,Cu) Invar metallic glasses: Volume expansion induced ferromagnetism. <i>Physical Review B</i> , <b>2000</b> , 61, 3219-3222	3.3	7
35	The effect of large magnetic fields on solid state combustion reactions: novel microstructure, lattice contraction and reduced coercivity in barium hexaferrite. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 235-237		20
34	ELECTRON-ELECTRON INTERACTION, QUANTUM INTERFERENCE AND SPIN FLUCTUATION EFFECTS IN THE RESISTIVITY OF Fe-RICH Fe-Zr METALLIC GLASSES. <i>International Journal of Modern Physics B</i> , <b>1999</b> , 13, 141-159	1.1	13
33	Self-propagating high-temperature synthesis of barium-chromium ferrites BaFe <sub>12-x</sub> Cr <sub>x</sub> O <sub>19</sub> (0≤x≤6.0). <i>Journal Physics D: Applied Physics</i> , <b>1999</b> , 32, 2590-2598	3	26



32	Synthesis of Amorphous Fe-Zr-B by Chemical Reduction. <i>Journal of Materials Science Letters</i> , <b>1999</b> , 18, 425-426		
31	Electrical resistivity of reentrant spin glass Fe <sub>91</sub> Zr <sub>9</sub> under pressure. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 196-197, 148-150	2.8	2
30	Structural and magnetoresistive properties of mechanically alloyed Fe-Co-Ag. <i>Journal of Physics Condensed Matter</i> , <b>1999</b> , 11, 8839-8853	1.8	22
29	Combustion synthesis of chromium-substituted lithium ferrites Li <sub>0.5</sub> Fe <sub>2.5-x</sub> Cr <sub>x</sub> O <sub>4</sub> (x=0): Rietveld analysis and magnetic measurements. <i>Solid State Sciences</i> , <b>1999</b> , 1, 311-316		20
28	Chemical reduction synthesis of fine particle FeZrB alloys under aerobic and anaerobic conditions. <i>Journal of Non-Crystalline Solids</i> , <b>1999</b> , 244, 44-54	3.9	13
27	Sodium borohydride reduction of aqueous iron-zirconium solutions: chemical routes to amorphous and nanocrystalline FeZrB alloys. <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 2537-2544		21
26	Convenient, low energy routes to hexagonal ferrites MFe <sub>12</sub> O <sub>19</sub> (M=Sr, Ba) from SHS reactions of iron, iron oxide and MO <sub>2</sub> in air. <i>Journal of Materials Chemistry</i> , <b>1998</b> , 8, 573-578		20
25	Crystal structure and magnetic behaviour of nanocrystalline Fe-Nb-Cu-Si-B alloys studied by means of in situ neutron diffraction. <i>Journal of Physics Condensed Matter</i> , <b>1998</b> , 10, 5027-5038	1.8	20
24	Structural and magnetic anisotropy in amorphous alloy ribbons. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, L375-L383	1.8	5
23	Magnetic and transport properties of Fe - Zr - B - (Cu) amorphous alloys. <i>Journal of Physics Condensed Matter</i> , <b>1997</b> , 9, 5671-5685	1.8	28
22	Self-propagating high-temperature synthesis of SrFe <sub>12</sub> O <sub>19</sub> from reactions of strontium superoxide, iron metal and iron oxide powders. <i>Journal of Materials Science Letters</i> , <b>1997</b> , 16, 1237-1239		29
21	In situ study of the crystallization process and magnetism in some FeNbSiBCu amorphous alloys. <i>Physica B: Condensed Matter</i> , <b>1997</b> , 234-236, 418-420	2.8	2
20	Annealing and magnetic field effects on the resistivity of Fe-rich Fe <sub>91</sub> Zr glasses. <i>Solid State Communications</i> , <b>1997</b> , 102, 353-357	1.6	6
19	Self-Propagating High Temperature Synthesis of Hexagonal Ferrites MFe <sub>12</sub> O <sub>19</sub> (M = Sr, Ba). <i>Advanced Materials</i> , <b>1997</b> , 9, 643-645	2.4	22
18	A comparative study of the crystallization of Co <sub>91</sub> Si <sub>9</sub> B metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1996</b> , 160, 297-298	2.8	4
17	Short-time dynamics on a metallic glass as probed by deep inelastic neutron scattering. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1996</b> , 214, 59-64	2.3	12
16	Evolution of the Electrical Resistivity during the Crystallization of Co-Si-B Glasses. <i>Physica Status Solidi A</i> , <b>1996</b> , 155, 439-450		10
15	Small-angle neutron scattering behavior of Fe <sub>91</sub> Zr <sub>9</sub> glass under magnetic field. <i>Journal of Applied Physics</i> , <b>1996</b> , 79, 5146	2.5	11

14	Spin fluctuation effects in, and quantum corrections to, the conductivity of $\text{Fe}_{90+x}\text{Zr}_{10-x}$ ( $x=0, 1$ ) metallic glasses. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1995</b> , 140-144, 295-296	2.8	10
13	EXAFS study of short range order in FeZr amorphous alloys. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1995</b> , 97, 206-208	1.2	7
12	A study of the structural changes in Co-Si-B glasses by neutron diffraction. <i>Journal of Physics Condensed Matter</i> , <b>1994</b> , 6, 1645-1652	1.8	2
11	. <i>IEEE Transactions on Magnetics</i> , <b>1994</b> , 30, 4776-4778	2	23
10	Low-frequency ac electrical resistivity of liquid gallium and its relationship with the dynamic structure factor. <i>Physical Review E</i> , <b>1994</b> , 50, 1341-1348	2.4	4
9	Electrical resistivity of Fe-Zr glasses from 4.2 to 1100 K. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1994</b> , 133, 82-85	2.8	8
8	Influence of the preparation conditions on the magnetic properties and electrical resistivity of $\text{Fe}_{73.5}\text{Nb}_3\text{Cu}_1\text{Si}_{13.5}\text{B}_9$ nanocrystalline alloys. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1994</b> , 133, 314-316	2.8	13
7	Resistivity changes of some amorphous alloys undergoing nanocrystallization. <i>Solid State Communications</i> , <b>1993</b> , 88, 75-80	1.6	47
6	Electrical resistivity in Co-Si-B amorphous compounds: appraisal of the structural and magnetic contributions. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1992</b> , 104-107, 97-99	2.8	1
5	Magnetic structures and cerium moment reduction in the $\text{CeNi}_x\text{Pt}_{1-x}$ ferromagnetic Kondo lattices. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1992</b> , 112, 51-57	2.8	1
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1	Electrical resistivity between 10 and 1000 K of ferromagnetic $\text{Co}_{75}\text{Si}_{25-x}\text{B}_x$ and $\text{Co}_{100-x}(\text{Si}_{0.6}\text{B}_{0.4})_x$ amorphous ribbons. <i>Journal of Applied Physics</i> , <b>1990</b> , 68, 4610-4616	2.5	15