

# Frederic Mazaleyrat

## List of Publications by Year in descending order

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176  
papers

2,563  
citations

201575

27  
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41  
g-index

178  
all docs

178  
docs citations

178  
times ranked

2432  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferromagnetic nanocomposites. Journal of Magnetism and Magnetic Materials, 2000, 215-216, 253-259.	1.0	120
2	XRD, HRTEM and magnetic properties of mixed spinel nanocrystalline Ni <sup>2+</sup> Zn <sup>2+</sup> Cu-ferrite. Journal of Alloys and Compounds, 2009, 473, 15-19.	2.8	90
3	Vortex Flux Channeling in Magnetic Nanoparticle Chains. Physical Review Letters, 2003, 91, 257207.	2.9	75
4	Investigation of magnetic properties, residual stress and densification in compacted iron powder specimens coated with polyepoxy. Materials Chemistry and Physics, 2009, 114, 588-594.	2.0	72
5	Mg <sub>1-x</sub> Zn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> nanoparticles: Interplay between cation distribution and magnetic properties. AIP Advances, 2018, 8, .	0.6	64
6	Effect of Zn addition on structural, magnetic properties and anti-structural modeling of magnesium-nickel nano ferrites. Materials Chemistry and Physics, 2019, 229, 78-86.	2.0	64
7	Microwave Absorption and the Magnetic Hyperthermia Applications of Li <sub>0.3</sub> Zn <sub>0.3</sub> Co <sub>0.1</sub> Fe <sub>2.3</sub> O <sub>4</sub> Nanoparticles in Multiwalled Carbon Nanotube Matrix. ACS Applied Materials & Interfaces, 2017, 9, 40831-40845.	4.0	62
8	Dual control on structure and magnetic properties of Mg ferrite: Role of swift heavy ion irradiation. Journal of Magnetism and Magnetic Materials, 2019, 471, 521-528.	1.0	50
9	Preparation of nanocrystalline Mn-Al-C magnets by melt spinning and subsequent heat treatments. Journal of Alloys and Compounds, 2007, 434-435, 611-613.	2.8	49
10	Characterization and Prediction of Magnetic Losses in Soft Magnetic Composites Under Distorted Induction Waveform. IEEE Transactions on Magnetics, 2013, 49, 1318-1326.	1.2	48
11	The Current Sensors in Power Electronics, a Review. EPE Journal (European Power Electronics and) Tj ETQq1 1 0.784314 rgBT /Overload 0.7 46	0.7	46
12	Effect of non-magnetic and magnetic trivalent ion substitutions on BaM-ferrite properties synthesized by hydrothermal method. Journal of Alloys and Compounds, 2016, 671, 245-253.	2.8	46
13	Cation distribution effect on static and dynamic magnetic properties of Co <sub>1-x</sub> Zn <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> ferrite powders. Journal of Magnetism and Magnetic Materials, 2018, 456, 372-380.	1.0	46
14	Substitution effect of Me=Al, Bi, Cr and Mn to the microwave properties of polyaniline/BaMeFe <sub>11</sub> O <sub>19</sub> for absorbing electromagnetic waves. Journal of Alloys and Compounds, 2017, 692, 774-786.	2.8	45
15	Temperature dependence of core loss in cobalt substituted Ni <sup>2+</sup> Zn <sup>2+</sup> Cu ferrites. Journal of Magnetism and Magnetic Materials, 2011, 323, 735-739.	1.0	44
16	Magnetic Properties of Nanostructured Spinel Ferrites. IEEE Transactions on Magnetics, 2014, 50, 1-6.	1.2	43
17	Loss separation in soft magnetic composites. Journal of Applied Physics, 2011, 109, .	1.1	42
18	Structural and magnetic properties of metastable Fe <sub>1-x</sub> Si <sub>x</sub> (0.15<x<0.34) alloys prepared by a rapid-quenching technique. Journal of Physics Condensed Matter, 2002, 14, 1985-2000.	0.7	41

#	ARTICLE	IF	CITATIONS
19	Magnetic and hyperfine properties of nanocrystalline Ni <sub>0.2</sub> Zn <sub>0.6</sub> Cu <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> prepared by a chemical route. Journal of Physics Condensed Matter, 2006, 18, 5253-5267.	0.7	39
20	Study of the first paramagnetic to ferromagnetic transition in as prepared samples of Mn <sup>2+</sup> Fe <sup>3+</sup> P <sup>5+</sup> Si magnetocaloric compounds prepared by different synthesis routes. Journal of Magnetism and Magnetic Materials, 2016, 400, 333-338.	1.0	38
21	Synthesis and characterization of core-shell structure silica-coated Fe <sub>29.5</sub> Ni <sub>70.5</sub> nanoparticles. Nanotechnology, 2007, 18, 285606.	1.3	37
22	High-temperature soft magnetic properties of Co-doped nanocrystalline alloys. Journal of Magnetism and Magnetic Materials, 2006, 302, 454-458.	1.0	36
23	Dynamic Magnetostriction of $\text{CoFe}_{1-x}\text{Mn}_x\text{O}$ and Its Role in Magnetolectric Composites. Physical Review Applied, 2018, 9, .	1.5	33
24	Spark plasma sintering of Mn <sup>2+</sup> Al <sup>3+</sup> C hard magnets. Journal of Physics Condensed Matter, 2014, 26, 064203.	0.7	31
25	Magnetic properties of rapidly quenched Fe <sub>100-x</sub> Si <sub>x</sub> (15 < x < 34) alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 946-949.	2.6	30
26	Magnetolectric effect in layered ferrite/PZT composites. Study of the demagnetizing effect on the magnetolectric behavior. Journal of Applied Physics, 2015, 117, .	1.1	30
27	An analysis of Mn-Zn ferrite microstructure by impedance spectroscopy, scanning transmission electron microscopy and energy dispersion spectrometry characterizations. Journal of Applied Physics, 2012, 111, .	1.1	29
28	Synthesis, characterization and antistructure modeling of Ni nano ferrite. AIP Conference Proceedings, 2018, , .	0.3	29
29	Silica coated nanoparticles: Synthesis, magnetic properties and spin structure. Journal of Alloys and Compounds, 2009, 483, 473-478.	2.8	27
30	Classical eddy current losses in soft magnetic composites. Journal of Applied Physics, 2013, 113, .	1.1	27
31	Cationic distribution assisted tuning of magnetic properties of Li <sub>0.5-x</sub> /2Zn <sub>x</sub> Fe <sub>2.5-x</sub> /2O <sub>4</sub> . AIP Advances, 2016, 6, .	0.6	26
32	Effective magnetic anisotropy and internal demagnetization investigations in soft magnetic nanocrystalline alloys. Journal of Magnetism and Magnetic Materials, 2000, 210, 25-30.	1.0	25
33	Stress-induced magnetic anisotropy in nanocrystalline alloys. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 477-479.	1.0	25
34	Uniaxial anisotropy and enhanced magnetostriction of CoFe <sub>2</sub> O <sub>4</sub> induced by reaction under uniaxial pressure with SPS. Journal of the European Ceramic Society, 2017, 37, 3101-3105.	2.8	25
35	Mössbauer and magnetic studies of (Fe <sub>100-x</sub> Co <sub>x</sub> ) <sub>62</sub> Nb <sub>8</sub> B <sub>30</sub> (x=0,33,50) alloys. Journal of Magnetism and Magnetic Materials, 2005, 292, 447-452.	1.0	24
36	Ni addition induced modification of structural, magnetic properties and antistructural modeling of Zn <sub>1-x</sub> Ni <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> (x = 0.0 - 1.0) nanoferrites. Molecular Crystals and Liquid Crystals, 2018, 674, 130-141.	0.4	23

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37	Magnetic properties of nanocomposites containing Fe-Ni or Fe dispersed in a Mn-Zn ferrite matrix. IEEE Transactions on Magnetics, 2002, 38, 3015-3017.	1.2	22
38	Hard magnetic properties of melt-spun Mn-Al-C alloys. EPJ Web of Conferences, 2013, 40, 06008.	0.1	22
39	Magnetic and hyperfine properties of chemically synthesized nanocomposites of $(Al_2O_3)_x(Ni_{0.2}Zn_{0.6}Cu_{0.2}Fe_2O_4)(1-x)$ ( $x=0.15, 0.30, 0.45$ ). Solid State Communications, 2007, 144, 305-309.	0.9	21
40	Soft magnetic properties of nanocrystalline Fe <sub>100-x</sub> Si <sub>x</sub> (15<x<34) alloys. Journal of Magnetism and Magnetic Materials, 2000, 215-216, 121-123.	1.0	20
41	Influence of rapid stress annealing on magnetic and structural properties of nanocrystalline Fe <sub>74.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> Si <sub>15.5</sub> B <sub>6</sub> alloy. Journal of Magnetism and Magnetic Materials, 2005, 294, e141-e144.	1.0	20
42	Internal stress influence on the coercivity of FeCuNbSiB thin films. Journal of Magnetism and Magnetic Materials, 2010, 322, 1275-1278.	1.0	20
43	New design of small-angle magnetization rotation device: Evaluation of saturation magnetostriction in wide thin ribbons. Journal of Applied Physics, 1997, 81, 4322-4324.	1.1	19
44	Physicochemical and Accelerated Aging Tests of Metglas 2605SA1 and Metglas 2605HB1 Amorphous Ribbons for Power Applications. IEEE Transactions on Magnetics, 2011, 47, 3192-3195.	1.2	18
45	High-Field Magnetization Behavior of Mn-Al-C Alloys. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	18
46	Temperature dependence of spin resonance in cobalt substituted NiZnCu ferrites. Applied Physics Letters, 2010, 97, 182502.	1.5	17
47	A computationally effective dynamic hysteresis model taking into account skin effect in magnetic laminations. Physica B: Condensed Matter, 2014, 435, 80-83.	1.3	17
48	Analytical modeling of demagnetizing effect in magnetoelectric ferrite/PZT/ferrite trilayers taking into account a mechanical coupling. Journal of Magnetism and Magnetic Materials, 2017, 426, 530-539.	1.0	17
49	Permeability of soft magnetic composites from flakes of nanocrystalline ribbon. IEEE Transactions on Magnetics, 2002, 38, 3132-3134.	1.2	16
50	Giant coercivity of dense nanostructured spark plasma sintered barium hexaferrite. Journal of Applied Physics, 2011, 109, .	1.1	16
51	Semianalytical and Analytical Formulas for the Classical Loss in Granular Materials With Rectangular and Elliptical Grain Shapes. IEEE Transactions on Magnetics, 2014, 50, 1-8.	1.2	16
52	Specific Loss Power of Co/Li/Zn-Mixed Ferrite Powders for Magnetic Hyperthermia. Sensors, 2020, 20, 2151.	2.1	16
53	Effect of temperature and time on properties of spark plasma sintered NiCuZn: Co ferrite. Journal of Applied Physics, 2011, 109, 07A504.	1.1	15
54	Thermo-magnetic transitions in two-phase nanostructured materials. IEEE Transactions on Magnetics, 2001, 37, 2232-2235.	1.2	14

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55	A quantitative analysis of magnetic vortices in Permalloy nanoparticles characterized by electron holography. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, e716-e719.	1.0	14
56	Comparison of Losses Measurement in a Ferrite With Two Calorimetric Methods. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 529-531.	1.2	14
57	First- Versus Second-Order Magnetocaloric Material for Thermomagnetic Energy Conversion. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-6.	1.2	14
58	Magnetic and structural study of $(\text{Fe}_{1-x}\text{Co}_x)_{62}\text{Nb}_8\text{B}_{30}$ bulk amorphous alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 375-377, 1048-1052.	2.6	13
59	Dependence of magnetic properties of the $\text{Fe-Co-Cu-Nb-Si-B}$ nanocrystalline alloys on magnetic field frequency and temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 375-377, 1072-1077.	2.6	13
60	Magnetic properties at elevated temperatures of Co substituted Finemet alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 375-377, 1110-1115.	2.6	13
61	Study of structural and magnetic properties of $(\text{Fe}_{100-x}\text{Co}_x)_{73.5}\text{Si}_{13.5}\text{B}_9\text{Nb}_3\text{Cu}_1$ alloys. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 3603-3607.	0.8	13
62	Structural and magnetic investigation of gradually devitrified Nanoperm alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, e828-e832.	1.0	13
63	Measurement of magnetic losses by thermal method applied to power ferrites at high level of induction and frequency. <i>Review of Scientific Instruments</i> , 2009, 80, 024703.	0.6	13
64	Enhancement of the Magnetoelectric Effect in Multiferroic $\text{CoFe}_2\text{O}_4/\text{PZT}$ Bilayer by Induced Uniaxial Magnetic Anisotropy. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	1.2	13
65	Effect of Zn addition on structural, magnetic properties, antistructural modeling of $\text{Co}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ nano ferrite. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	13
66	Microstructure and magnetic properties of soft magnetic composites based on silicon resin coated $\text{Co}_{40}\text{Fe}_{22}\text{Ta}_8\text{B}_{30}$ glassy powders. <i>Intermetallics</i> , 2013, 43, 1-7.	1.8	12
67	Numerical study of thermomagnetic cycle. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 426, 64-69.	1.0	12
68	Anisotropy of the ferromagnetic L1 phase in the Mn-Al-C alloys induced by high-pressure spark plasma sintering. <i>AIP Advances</i> , 2018, 8, .	0.6	12
69	On the influence of Joule heating induced nanocrystallization on structural and magnetic properties of $\text{Co}_{64}\text{Fe}_{21}\text{B}_{15}$ alloy. <i>Current Applied Physics</i> , 2011, 11, 981-985.	1.1	11
70	Direct calorimetric measurements of isothermal entropy change on single crystal W-type hexaferrites at the spin reorientation transition. <i>Journal of Applied Physics</i> , 2012, 111, 07A905.	1.1	11
71	Skin effect in steel sheets under rotating induction. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2015, 48, 247-254.	0.3	11
72	A Simple Compensation Method for the Accurate Measurement of Magnetic Losses With a Single Strip Tester. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-4.	1.2	11

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73	1-D and 2-D Loss-Measuring Methods: Optimized Setup Design, Advanced Testing, and Results. IEEE Transactions on Magnetics, 2018, 54, 1-15.	1.2	11
74	Cr content-dependent modification of structural, magnetic properties and bandgap in green synthesized Co <sup>2+</sup> /Cr nano-ferrites. Molecular Crystals and Liquid Crystals, 2020, 699, 39-50.	0.4	11
75	The role of the residual amorphous matrix in determining the temperature dependence of soft magnetic properties of nc alloys. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1550-1552.	1.0	10
76	Study of Magnetic Losses in Mn-Zn Ferrites Under Biased and Asymmetric Excitation Waveforms. IEEE Transactions on Magnetics, 2010, 46, 451-454.	1.2	10
77	In situ tailoring of magnetization configuration in NiFe film deposited onto flexible substrate. Journal of Applied Physics, 2012, 111, 07A926.	1.1	10
78	Thermal energy harvesting system based on magnetocaloric materials. EPJ Applied Physics, 2019, 85, 10902.	0.3	10
79	Magnetic properties of MnZn ferrite with ultra-fine grain structure. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 538-540.	1.0	9
80	X-ray diffraction analysis of the magnetoelastic phase transition in the Mn-Fe-P-Si magnetocaloric alloy. AIP Advances, 2016, 6, .	0.6	9
81	Optimization of multiroute synthesis for polyaniline-barium ferrite composites. Materials Chemistry and Physics, 2016, 179, 42-54.	2.0	9
82	Influence of cold isostatic pressing on the magnetic properties of Ni-Zn-Cu ferrite. AIP Advances, 2018, 8, .	0.6	9
83	Enhanced magnetoelectric voltage in ferrite/PZT/ferrite composite for AC current sensor application. Journal of Materials Science: Materials in Electronics, 2018, 29, 14435-14444.	1.1	9
84	Nitrogenation and sintering of (Nd-Zr)Fe <sub>10</sub> Si <sub>2</sub> tetragonal compounds for permanent magnets applications. Journal of Alloys and Compounds, 2019, 784, 996-1002.	2.8	9
85	Ni addition induced modification of structural, magnetic properties and bandgap of Ni-Zn nano ferrites. Materials Today: Proceedings, 2020, 32, 329-333.	0.9	9
86	Soft amorphous and nanocrystalline magnetic materials. , 2001, , 59-102.		8
87	Observation and modelling of magnetic vortex core structure in Permalloy nanoparticles. Journal of Magnetism and Magnetic Materials, 2010, 322, 1290-1292.	1.0	8
88	Short-Circuit Withstand Tests of Metglas 2605SA1-Based Amorphous Distribution Transformers. IEEE Transactions on Magnetics, 2011, 47, 4489-4492.	1.2	8
89	Ultrasoft Finemet thin films for magneto-impedance microsensors. Journal of Micromechanics and Microengineering, 2011, 21, 074010.	1.5	8
90	High-frequency rotational losses in different soft magnetic composites. Journal of Applied Physics, 2014, 115, 17A331.	1.1	8

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91	Fabrication and characterization of novel soft magnetic [(Fe <sub>0.7</sub> Co <sub>0.3</sub> ) <sub>71.2</sub> B <sub>24</sub> Y <sub>4.8</sub> ] <sub>96</sub> Nb <sub>4</sub> /V <sub>2</sub> O <sub>5</sub> bulk metallic glassy/composite cores with excellent magnetic permeability and low core losses. Journal of Alloys and Compounds, 2020, 846, 156427.	2.8	8
92	A Thermal Energy Harvester Using LaFeSi Magnetocaloric Materials. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	8
93	Self-oscillation and heat management in a LaFeSi based thermomagnetic generator. Journal of Magnetism and Magnetic Materials, 2021, 540, 168428.	1.0	8
94	Analysis of volume distribution of power loss in ferrite cores. Journal of Applied Physics, 2011, 109, 07D308.	1.1	7
95	Temperature dependence of magnetic behaviour in very fine grained, spark plasma sintered NiCuZn ferrites. Journal of Applied Physics, 2012, 111, 07A510.	1.1	7
96	Extended frequency analysis of magnetic losses under rotating induction in soft magnetic composites. Journal of Applied Physics, 2012, 111, 07E325.	1.1	7
97	The Verwey transition in nanostructured magnetite produced by a combination of chimie douce and spark plasma sintering. Journal of Applied Physics, 2014, 115, 17E117.	1.1	7
98	A Multiscale Modeling of Magnetic Shape Memory Alloys: Application to NiMnGa Single Crystal. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	7
99	Synthesis, structural and magnetic properties of Mg <sub>0.6</sub> Zn <sub>0.4</sub> Cr <sub>x</sub> Fe <sub>2-x</sub> O <sub>4</sub> (0.0 ≤ x ≤ 2.0) nano ferrite. AIP Conference Proceedings, 2018, , .	0.3	7
100	Study of structural, magnetic properties and bandgap of spinel Co <sub>1-x</sub> Fe <sub>2+x</sub> O <sub>4</sub> ferrite. Materials Today: Proceedings, 2020, 32, 358-364.	0.9	7
101	Soft magnetic properties of rapidly quenched pig-iron-based alloys. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 447-449.	1.0	6
102	Study of magnetoimpedance effect in Co <sub>0.5</sub> Fe <sub>0.5</sub> Si <sub>0.5</sub> B glass-covered microwires. Sensors and Actuators A: Physical, 2006, 129, 216-219.	2.0	6
103	Structural and magnetic properties of an anisotropic M-type LaCo-substituted strontium hexaferrite. EPJ Applied Physics, 2015, 72, 20601.	0.3	6
104	Anisotropy of Losses in Non-Oriented Iron Silicon Sheets: Influence on Electrical Machine Applications. IEEE Transactions on Magnetics, 2016, 52, 1-7.	1.2	6
105	Enhancement of Medium Frequency Hysteresis Loop Measurements Over a Wide Temperature Range. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	6
106	Hysteresis cycles of soft nanoparticles, influence of size, shape and material. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 540-543.	1.0	5
107	The influence of size on coercive field of ultra soft magnetic materials. Journal of Magnetism and Magnetic Materials, 2006, 301, 527-531.	1.0	5
108	Influence of Co content and thermal annealing on structural, magnetic and magneto elastic properties of nanocrystalline Fe <sub>0.5</sub> Co <sub>0.5</sub> Nb <sub>0.5</sub> B alloys. Physica B: Condensed Matter, 2010, 405, 2803-2806.	1.3	5

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109	A new magneto-elastic resonance based technique to determine magneto-mechanical parameters of amorphous ferromagnetic ribbons. Review of Scientific Instruments, 2013, 84, 043904.	0.6	5
110	A method to decrease the harmonic distortion in Mn-Zn ferrite/PZT and Ni-Zn ferrite/PZT layered composite rings exhibiting high magnetoelectric effects. Journal of Applied Physics, 2015, 118, 154101.	1.1	5
111	Impact of Cd content on properties of Ni <sub>1-x</sub> Cd <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> nanoferrites prepared without post-preparation thermal treatment. Materials Today: Proceedings, 2021, 46, 2205-2211.	0.9	5
112	High temperature behaviour of stress-annealed nanocrystalline Fe <sub>73.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> Si <sub>13.5</sub> B <sub>9</sub> . European Physical Journal Special Topics, 1998, 08, Pr2-159-Pr2-162.	0.2	5
113	<sup>57</sup> Fe Mössbauer study of CoCr <sub>x</sub> Fe <sub>2-x</sub> O <sub>4</sub> nano ferrite. Hyperfine Interactions, 2021, 242, 1.	0.2	5
114	Thermomagnetic study of Finemet type nanocrystalline alloy by in situ hysteresis measurements. Journal of Magnetism and Magnetic Materials, 1996, 159, L33-L38.	1.0	4
115	Microstructure and magnetic properties of Fe <sub>85</sub> Co <sub>15</sub> Nb <sub>5</sub> B <sub>8</sub> P <sub>2</sub> high temperature nanocrystalline alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1506-1507.	1.0	4
116	Magnetoelastic effect in soft amorphous and nanocrystalline FeCuNbSiB thin films. Journal of Physics: Conference Series, 2010, 200, 082020.	0.3	4
117	Magnetic and structural characterization of nanosized BaCo <sub>x</sub> Zn <sub>2-x</sub> Fe <sub>16</sub> O <sub>27</sub> hexaferrite in the vicinity of spin reorientation transition. Journal of Physics: Conference Series, 2011, 303, 012045.	0.3	4
118	Giant Barkhausen Jumps in Exchange Biased Bulk Nanocomposites Sintered from Core-Shell $\text{Fe}_3\text{O}_4/\text{CoO}$ Nanoparticles. IEEE Transactions on Magnetics, 2013, 49, 3356-3359.	1.2	4
119	Cobalt Doping Effect on Ni-Zn-Cu Ferrites Produced by Reactive Sintering. Physics Procedia, 2015, 75, 1306-1313.	1.2	4
120	Spark Plasma Sintering Co-Sintered Monolithic Transformers for Power Electronics. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	4
121	Loss decomposition in plastically deformed and partially annealed steel sheets. Journal of Magnetism and Magnetic Materials, 2020, 502, 166452.	1.0	4
122	Investigation of Piezomagnetism in Nickel Ferrite. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	4
123	Analytical Model of the Magnetostrictive Ribbon Shape Resonator Frequency Response. Sensor Letters, 2011, 9, 1801-1806.	0.4	4
124	<sup>9+</sup> Ion-Irradiation Induced Modification of Structural and Magnetic Properties of Zn-Nanoferrite. ECS Journal of Solid State Science and Technology, 2022, 11, 053015.	0.9	4
125	The role of internal and external demagnetizing effects in nanocrystalline alloys. IEEE Transactions on Magnetics, 2001, 37, 2229-2231.	1.2	3
126	Structure related magnetic properties of MnZn ferrite with ultra-fine grain structure. EPJ Applied Physics, 2003, 23, 49-54.	0.3	3



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127	A novel method determining longitudinally induced magnetic anisotropy in amorphous and nanocrystalline soft materials. Journal of Magnetism and Magnetic Materials, 2004, 280, 391-394.	1.0	3
128	XXIst Century Ferrites. Journal of Physics: Conference Series, 2012, 365, 012001.	0.3	3
129	Ferromagnetic L1 <sub>0</sub> Phase Formation in the Mn-Al-C Alloys Induced by High-Pressure Spark Plasma Sintering. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	3
130	Effect of Carbon Addition on Magnetic Order in Mn-Al-C Alloys. IEEE Transactions on Magnetics, 2017, 53, 1-6.	1.2	3
131	Effect of 120 MeV <sup>28</sup> Si <sup>9+</sup> ion irradiation on structural and magnetic properties of NiFe <sub>2</sub> O <sub>4</sub> and Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> . AIP Conference Proceedings, 2018, , .	0.3	3
132	Synthesis, structural and magnetic properties of CoCr <sub>x</sub> Fe <sub>2-x</sub> O <sub>4</sub> (0.0 ≤ x ≤ 1.0) nano-ferrite. AIP Conference Proceedings, 2019, , .	0.3	3
133	Cd content dependent structural and magnetic properties of Cd-Ni nano ferrite. AIP Conference Proceedings, 2019, , .	0.3	3
134	On the limits of Reactive-Spark-Plasma Sintering to prepare magnetically enhanced nanostructured ceramics: the case of the CoFe <sub>2</sub> O <sub>4</sub> -NiO system. Scientific Reports, 2019, 9, 14119.	1.6	3
135	Structural and Magnetic Investigation of Amorphous and Gradually Devitrified Nanocrystalline Fe-Co-Nb-Cu-B Alloys. Journal of the Korean Physical Society, 2008, 53, 3629-3633.	0.3	3
136	Synthesis and Processing of Metallic Nano-Powders for the Study of their Mechanical and Magnetic Properties. Materials Science Forum, 2003, 426-432, 2411-2416.	0.3	2
137	Influence of Nb addition on structural and magnetic properties of FeNbAlGaPCB metallic glasses. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1461-1464.	1.0	2
138	Magnetic Decoupling in Soft Magnetic Nanocrystalline Alloys. , 2005, , 157-164.		2
139	Magnetic and structural properties of ion beam sputtered Fe-Zr-Nb-B-Cu thin films. Thin Solid Films, 2012, 520, 3499-3504.	0.8	2
140	Influence of Mn addition on magnetic and structural properties of barium hexaferrite. , 2013, , .		2
141	Magnetization Reversal in Exchange Spring Bilayer System Under Circularly Polarized Microwave Field. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	2
142	Study of hard-soft magnetic ferrite films prepared by pulsed laser deposition. Journal of Physics: Conference Series, 2014, 534, 012043.	0.3	2
143	Comparison of three measuring systems at high frequency for non oriented silicon steels: influence of the rolling direction on magnetic losses and B(H) curve. EPJ Applied Physics, 2015, 71, 31001.	0.3	2
144	First vs second order magnetocaloric material for thermomagnetic energy conversion. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
145	Influence of Mg Content on Structural and Magnetic Properties of Green-Synthesized $\text{Li}_{0.5}\text{Mg}_{0.5}\text{Fe}_{2.5}\text{O}_4$ (0.0 x % x % 0.8) Nanoferrites. Springer Proceedings in Physics, 2019, , 431-442.	0.1	2
146	Preparation condition assisted modification of structural and magnetic properties of $\text{MgFe}_2\text{O}_4$ nano ferrite. AIP Conference Proceedings, 2019, , .	0.3	2
147	Green synthesis and characterization of $\text{Ni}_{0.8}\text{Zn}_{0.2}\text{Fe}_2\text{O}_4$ nano ferrite. AIP Conference Proceedings, 2019, , .	0.3	2
148	Composition assisted tuning properties of $\text{CoCr}_x\text{Fe}_{2-x}\text{O}_4$ spinel nano ferrites. Materials Today: Proceedings, 2020, 32, 350-353.	0.9	2
149	Temperature Dependence of Coercivity and Magnetic Relaxation in a Mn-Al-C Permanent Magnet. IEEE Transactions on Magnetics, 2021, 57, 1-5.	1.2	2
150	Soft Magnetic Materials and Applications. , 2021, , 1435-1487.		2
151	Optimum and Rapid Annealing of Nanocrystalline $\text{Fe}_{73.5}\text{Cu}_1\text{Nb}_3\text{Si}_6\text{B}_{22.5-x}$ Ferromagnets-Correlation Between Magnetic, Mechanic and Thermal Analysis. Journal De Physique III, 1996, 6, 217-224.	0.3	1
152	Surface analysis of Fe-Co-Nb-Cu-B metallic glasses using a miniaturised Mössbauer spectrometer MIMOS™. Journal of Non-Crystalline Solids, 2007, 353, 3587-3589.	1.5	1
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155	Effective anisotropy field distribution of soft magnetic nanocrystalline $\text{Fe}_{84}\text{Zr}_{3.5}\text{Nb}_{3.5}\text{B}_8\text{Cu}_1$ ribbons. AIP Conference Proceedings, 2012, , .	0.3	1
156	Growth and characterization of ferrite film prepared by pulsed laser deposition. Journal of Physics: Conference Series, 2012, 365, 012023.	0.3	1
157	Preparation and characterization of Fe-Si-B thin films. , 2013, , .		1
158	Structural, Dielectric, and Magnetic Properties of NiZnCu Ferrites Synthesized by Reactive Spark Plasma Sintering Process. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	1
159	High Magnetic Moment of FeCo Nanoparticles Produced in Polyol Medium. IEEE Transactions on Magnetics, 2014, 50, 1-5.	1.2	1
160	Lithography-free synthesis of nanostructured cobalt on Si (111) surfaces: structural and magnetic properties. EPJ Web of Conferences, 2014, 75, 05012.	0.1	1
161	Effect of deposition time on structural and magnetic properties of pulse laser deposited hard-soft composite films. Journal of Physics: Conference Series, 2016, 755, 012043.	0.3	1
162	Single reaction mixture synthesis and characterization of $\text{CoFe}_2\text{O}_4$ - $\text{BaFe}_{12}\text{O}_{19}$ nano-composite. AIP Conference Proceedings, 2019, , .	0.3	1

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163	Green synthesis and characterization of $\text{Li}_{0.5-0.5x}\text{Mg}_x\text{Fe}_{2.5-0.5x}\text{O}_4$ (0.0 $\hat{\%}$ x $\hat{\%}$ 1.0) nano ferrite. AIP Conference Proceedings, 2019, , .	0.3	1
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165	Preparation condition, composition and post-preparation thermal treatment assisted control of structural and magnetic properties of spinel nano ferrites. AIP Conference Proceedings, 2019, , .	0.3	1
166	Exchange-bias features in nanoceramics prepared by spark plasma sintering of exchange-biased nanopowders. Journal of Materials Chemistry C, 2020, 8, 5941-5949.	2.7	1
167	An Approach of Thermal Dependence of Magnetization in Two-Phase Nanocrystalline Alloys. Materials Science Forum, 1998, 269-272, 559-564.	0.3	0
168	Permeability of soft magnetic composites elaborated from flakes of nanocrystalline ribbons. , 0, , .		0
169	Magnetic properties of nanocomposites containing FeNi or Fe dispersed in a MnZn ferrite matrix. , 0, , .		0
170	Influence of annealing on the high frequency magnetotransport properties of melt-spun $\text{Fe}_{31}\text{Co}_{31}\text{Nb}_8\text{B}_{30}$ alloys. Journal of Non-Crystalline Solids, 2007, 353, 3099-3102.	1.5	0
171	$\text{Cu}_2\text{MnAl}$ thin films grown onto sapphire and MgO substrates: Exchange stiffness and magnetic anisotropy. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 553-558.	0.8	0
172	Synthesis, structural and magnetic properties of cadmium substituted Li-ferrite. AIP Conference Proceedings, 2019, , .	0.3	0
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174	DC-DC converter with GaN transistor and coupled with monolithic ICT sintered by PECS/SPS. EPE Journal (European Power Electronics and Drives Journal), 2019, 29, 161-171.	0.7	0
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176	Getting Rid of Critical Raw Materials in Hard Magnets: Is it Feasible?. IEEE Transactions on Magnetics, 2022, 58, 1-10.	1.2	0