Victorino Franco

List of Publications by Year
in descending order

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211 papers	9,930 citations	66250 44 h-index	46524 93 g-index
212 all docs	212 docs citations	212 times ranked	3853 citing authors

#	Article	IF	Citations
1	Structural, Electronic, Magnetic, and Mechanical Properties of Co_{2-x}V_xFeSi Heusler Alloys. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	4
2	Enhancing the magnetocaloric response of high-entropy metallic-glass by microstructural control. Science China Materials, 2022, 65, 1134-1142.	3.5	24
3	The 15th Joint Magnetism and Magnetic Materialsâ€“Intermag Conference. AIP Advances, 2022, 12, .	0.6	0
4	Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si11.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si14.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.25</mml:mn></mml:mrow></mml:msub></mml:math>Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si15.svg"><mml:msub><mml:mrow /><mml:	3.8	1
5	MnFeNiGeSi high-entropy alloy with large magnetocaloric effect. Journal of Alloys and Compounds, 2021, 855, 157424.	2.8	44
6	Influence of Cr-substitution on the structural, magnetic, electron transport, and mechanical properties of Fe3â^'Cr Ge Heusler alloys. Journal of Magnetism and Magnetic Materials, 2021, 521, 167398.	1.0	17
7	Combined kinetic and Beanâ€“Rodbell approach for describing field-induced transitions in LaFe_{11.6}Si_{1.4} alloys. Journal Physics D: Applied Physics, 2021, 54, 135003.	1.3	8
8	Magnetocaloric Characterization of Materials. , 2021, , 697-726.		4
9	Magnetocaloric Composite Materials. , 2021, , 461-472.		9
10	Analysis of the magnetic field dependence of the isothermal entropy change of inverse magnetocaloric materials. Results in Physics, 2021, 22, 103933.	2.0	14
11	Hysteresis, latent heat and cycling effects on the magnetocaloric response of (NiMnSi)0.66(Fe2Ge)0.34 alloy. Intermetallics, 2021, 131, 107083.	1.8	12
12	Reversibility of the Magnetocaloric Effect in the Bean-Rodbell Model. Magnetochemistry, 2021, 7, 60.	1.0	6
13	Increased magnetocaloric response of FeMnNiGeSi high-entropy alloys. Acta Materialia, 2021, 212, 116931.	3.8	48
14	Characterization of thermal hysteresis in magnetocaloric NiMnIn Heusler alloys by Temperature First Order Reversal Curves (TFORC). Journal of Alloys and Compounds, 2021, 867, 159184.	2.8	17
15	Possible half-metallic behavior of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mrow /><mml:mn>2</mml:mn></ Heusler alloys: Theory and experiment. Physical Review B, 2021, 104, .	1.1	21
16	Pushing the limits of magnetocaloric high-entropy alloys. APL Materials, 2021, 9, .	2.2	53
17	Deconvolution of overlapping first and second order phase transitions in a NiMnIn Heusler alloy using the scaling laws of the magnetocaloric effect. Journal of Alloys and Compounds, 2021, 871, 159621.	2.8	12
18	First- and second-order phase transitions in RE6Co2Ga (RE = Ho, Dy or Gd) cryogenic magnetocaloric materials. Science China Materials, 2021, 64, 2846-2857.	3.5	62

#	ARTICLE	IF	CITATIONS
19	Design of Fe-containing GdTbCoAl high-entropy-metallic-glass composite microwires with tunable Curie temperatures and enhanced cooling efficiency. Materials and Design, 2021, 206, 109824.	3.3	24
20	Structure and magnetic study of Ni-Mn-Ga/Al composite with modified magnetocaloric properties and enhanced thermal conductivity. Scripta Materialia, 2021, 201, 113956.	2.6	12
21	Structural, electronic, magnetic, transport and mechanical properties of the half-metal-type quaternary Heusler alloy <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si125.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">Co</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></m xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si126.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">Fe</mml:mi>	1.0	10
22	Gel combustion synthesis and magnetic properties of CoFe2O4, ZnFe2O4, and MgFe2O4 using 6-aminohexanoic acid as a new fuel. Journal of Magnetism and Magnetic Materials, 2020, 497, 166054.	1.0	44
23	Magnetocaloric response of binary Gd-Pd and ternary Gd-(Mn,Pd) alloys. Journal of Magnetism and Magnetic Materials, 2020, 500, 166175.	1.0	19
24	Setting the Basis for the Interpretation of Temperature First Order Reversal Curve (TFORC) Distributions of Magnetocaloric Materials. Metals, 2020, 10, 1039.	1.0	12
25	Structure, magnetic and magnetocaloric properties of Ni2MnGa Heusler alloy nanowires. Journal of Magnetism and Magnetic Materials, 2020, 513, 167100.	1.0	20
26	Correction to â€œA procedure to obtain the parameters of curie temperature distribution from thermomagnetic and magnetocaloric dataâ€•orginally published as J. non-cryst. solids 520, 119,460 (2019). Journal of Non-Crystalline Solids, 2020, 538, 120047.	1.5	1
27	Phase Deconvolution of Multiphasic Materials by the Universal Scaling of the Magnetocaloric Effect. Jom, 2020, 72, 2845-2852.	0.9	19
28	Magnetic phase transitions and magnetocaloric effect in ternary rhombohedral Laves phases of Gd2Rh3Ge and Er2Rh3Ge. Journal of Magnetism and Magnetic Materials, 2020, 514, 166988.	1.0	14
29	Temperature-FORC analysis of a magnetocaloric Heusler alloy using a unified driving force approach (T*FORC). Journal of Applied Physics, 2020, 127, .	1.1	9
30	Regulation of phase transition and magnetocaloric effect by ferroelectric domains in FeRh/PMN-PT heterojunctions. Acta Materialia, 2020, 191, 51-59.	3.8	31
31	Novel procedure for laboratory scale production of composite functional filaments for additive manufacturing. Materials Today Communications, 2020, 24, 101049.	0.9	16
32	Magnetocaloric effect and scaling analysis in superspinglass cobalt based nanoparticles. Journal of Alloys and Compounds, 2019, 805, 767-773.	2.8	8
33	Correlations between elastic, calorimetric, and polar properties of ferroelectric PbSc0.5Ta0.5O3 (PST). Applied Physics Letters, 2019, 115, .	1.5	5
34	Tunable first order transition in La(Fe,Cr,Si)13 compounds: Retaining magnetocaloric response despite a magnetic moment reduction. Acta Materialia, 2019, 175, 406-414.	3.8	45
35	A procedure to obtain the parameters of Curie temperature distribution from thermomagnetic and magnetocaloric data. Journal of Non-Crystalline Solids, 2019, 520, 119460.	1.5	10
36	FORC study of the ferromagnetic impurities in Na and K feldspars of â€œEl Realejoâ€•mine. AIP Advances, 2019, 9, 035038.	0.6	1

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37	Influence of low temperature truncated calorimetric data on the determination of the magnetocaloric effect of biphasic materials. Journal of Magnetism and Magnetic Materials, 2019, 479, 236-239.	1.0	0
38	Influence of Thermal and Magnetic History on Direct Î”Tad Measurements of Ni49+xMn36â^'xIn15 Heusler Alloys. Metals, 2019, 9, 1144.	1.0	5
39	Modification of the order of the magnetic phase transition in cobaltites without changing their crystal space group. Journal of Alloys and Compounds, 2019, 777, 1080-1086.	2.8	14
40	How concurrent thermomagnetic transitions can affect magnetocaloric effect: The Ni49+xMn36-xIn15 Heusler alloy case. Acta Materialia, 2019, 166, 459-465.	3.8	27
41	Influence of the starting temperature of calorimetric measurements on the accuracy of determined magnetocaloric effect. Journal of Magnetism and Magnetic Materials, 2018, 457, 64-69.	1.0	15
42	Preface to Special Topic: 23rd Soft Magnetic Materials Conference, 10-13 September 2017, Sevilla, Spain. AIP Advances, 2018, 8, 047001.	0.6	0
43	Near room-temperature magnetocaloric effect of Co-based bulk metallic glass. Journal of Magnetism and Magnetic Materials, 2018, 446, 162-165.	1.0	9
44	Controlling of magnetocaloric effect in Gd2O3@SiO2 nanocomposites by substrate dimensionality and particlesâ€™ concentration. AIP Advances, 2018, 8, .	0.6	13
45	Magnetocaloric effect: From materials research to refrigeration devices. Progress in Materials Science, 2018, 93, 112-232.	16.0	1,031
46	IEEE Magnetics Society Distinguished Lecturers for 2019. IEEE Transactions on Magnetics, 2018, 54, 1-4.	1.2	0
47	The role of Ni in modifying the order of the phase transition of La(Fe,Ni,Si)13. Acta Materialia, 2018, 160, 137-146.	3.8	45
48	Correction of the shape effect on magnetic entropy change in ball milled Fe70Zr30 alloys. Journal of Alloys and Compounds, 2018, 765, 437-443.	2.8	10
49	A quantitative criterion for determining the order of magnetic phase transitions using the magnetocaloric effect. Nature Communications, 2018, 9, 2680.	5.8	273
50	Normal and inverse magnetocaloric effects in structurally disordered Laves phase Y1-Gd Co2 (0Ââ‰ÂxÂâ‰Â1) compounds. Journal of Alloys and Compounds, 2017, 702, 258-265.	2.8	16
51	Grinding and particle size selection as a procedure to enhance the magnetocaloric response of La(Fe,Si)13 bulk samples. Intermetallics, 2017, 84, 30-34.	1.8	14
52	Ball milling as a way to produce magnetic and magnetocaloric materials: a review. Journal of Materials Science, 2017, 52, 11834-11850.	1.7	41
53	Tunable magnetocaloric effect around room temperature by Fe doping in Mn0.98Cr(0.02-x)FexAs compound. Journal of Magnetism and Magnetic Materials, 2017, 436, 85-90.	1.0	2
54	Influence of Noise on the Determination of Curie Temperature From Magnetocaloric Analysis. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	1

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55	Study of phases evolution in high-coercive MnAl powders obtained through short milling time of gas-atomized particles. Journal of Alloys and Compounds, 2017, 712, 373-378.	2.8	27
56	Two different critical regimes enclosed in the Beanâ€“Rodbell model and their implications for the field dependence and universal scaling of the magnetocaloric effect. Physical Chemistry Chemical Physics, 2017, 19, 3582-3595.	1.3	36
57	Predicting the tricritical point composition of a series of LaFeSi magnetocaloric alloys via universal scaling. Journal Physics D: Applied Physics, 2017, 50, 414004.	1.3	38
58	Nanostructuring as a procedure to control the field dependence of the magnetocaloric effect. Materials and Design, 2017, 114, 214-219.	3.3	22
59	Scaling Analysis of the Magnetocaloric Effect in Co/Au Nanoparticles. Acta Physica Polonica A, 2017, 131, 795-797.	0.2	1
60	Large magnetocaloric effect in fine Gd2O3 nanoparticles embedded in porous silica matrix. Applied Physics Letters, 2016, 109, .	1.5	42
61	A unified approach to describe the thermal and magnetic hysteresis in Heusler alloys. Applied Physics Letters, 2016, 109, .	1.5	14
62	The influence of magnetocrystalline anisotropy on the magnetocaloric effect: A case study on Co2B. Applied Physics Letters, 2016, 109, .	1.5	27
63	First-Order Reversal Curve (FORC) Analysis of Magnetocaloric Heusler-Type Alloys. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	30
64	Applicability of scaling behavior and power laws in the analysis of the magnetocaloric effect in second-order phase transition materials. Physical Review B, 2016, 94, .	1.1	59
65	Optimal temperature range for determining magnetocaloric magnitudes from heat capacity. Journal Physics D: Applied Physics, 2016, 49, 495001.	1.3	7
66	Study of the Induced Anisotropy in Field Annealed Hitperm Alloys by MÃ¶ssbauer Spectroscopy and Kerr Microscopy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4301-4305.	1.1	3
67	Influence of nanocrystallization on the magnetocaloric properties of Ni-based amorphous alloys: Determination of critical exponents in multiphase systems. Journal of Alloys and Compounds, 2016, 686, 717-722.	2.8	17
68	Structural, magnetic properties and magnetocaloric effect of Mn1.2Fe0.8P1â^'Si B0.03 compounds. Materials Research Bulletin, 2016, 77, 29-34.	2.7	14
69	Anisotropy field distribution in soft magnetic Hitperm alloys submitted to different field annealing processes. Journal of Alloys and Compounds, 2016, 658, 367-371.	2.8	12
70	A hybrid silver-magnetite detector based on surface enhanced Raman scattering for differentiating organic compounds. Sensors and Actuators B: Chemical, 2016, 228, 124-133.	4.0	33
71	Assessment of the magnetocaloric effect in La,Pr(Fe,Si) under cycling. Journal of Magnetism and Magnetic Materials, 2016, 406, 259-265.	1.0	62
72	Gd+GdZn biphasic magnetic composites synthesized in a single preparation step: Increasing refrigerant capacity without decreasing magnetic entropy change. Journal of Alloys and Compounds, 2016, 675, 244-247.	2.8	29

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73	Magnetocaloric response of amorphous and nanocrystalline Cr-containing Vitroperm-type alloys. Journal of Magnetism and Magnetic Materials, 2016, 409, 56-61.	1.0	14
74	A New Method for Determining the Curie Temperature From Magnetocaloric Measurements. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	10
75	Analysis of the Magnetocaloric Effect in Powder Samples Obtained by Ball Milling. Metallurgical and Materials Transactions E, 2015, 2, 131-138.	0.5	7
76	Analysis of magnetocaloric effect of ball milled amorphous alloys: Demagnetizing factor and Curie temperature distribution. Journal of Alloys and Compounds, 2015, 622, 606-609.	2.8	20
77	Influence of microstructure on the enhancement of soft magnetic character and the induced anisotropy of field annealed HITPERM-type alloys. Journal of Applied Physics, 2015, 117, 17A301.	1.1	8
78	Enhanced cryogenic magnetocaloric effect in Eu8Ga16Ge30 clathrate nanocrystals. Journal of Applied Physics, 2015, 117, .	1.1	15
79	Enhancement of magnetocaloric effect in B-rich FeZrBCu amorphous alloys. Journal of Alloys and Compounds, 2015, 622, 756-760.	2.8	22
80	Characterization of the magnetic interactions of multiphase magnetocaloric materials using first-order reversal curve analysis. Journal of Applied Physics, 2015, 117, .	1.1	15
81	Table-like magnetocaloric effect of Fe88â^'xNdxCr8B4 composite materials. Journal of Magnetism and Magnetic Materials, 2015, 390, 87-90.	1.0	29
82	Influence of hot compaction on microstructure and magnetic properties of mechanically alloyed Fe(Co)-based amorphous compositions. Journal of Alloys and Compounds, 2015, 653, 546-551.	2.8	5
83	Dynamic effects in the characterization of the magnetocaloric effect of LaFeSi-type alloys. , 2015, , .		1
84	Effect of Î±-Fe impurities on the field dependence of magnetocaloric response in LaFe11.5Si1.5. Journal of Alloys and Compounds, 2015, 646, 101-105.	2.8	17
85	Structure, magnetic properties and giant magnetocaloric effect ofÂTb4Gd1Si2.035Ge1.935Mn0.03 alloy. Intermetallics, 2015, 57, 68-72.	1.8	6
86	Optimizing the Curie temperature of pseudo-binary RxR'2-xFe17(R,R' = rare earth) for magnetic refrigeration. Journal of Physics: Conference Series, 2014, 549, 012019.	0.3	1
87	Influence of the demagnetizing factor on the magnetocaloric effect: Critical scaling and numerical simulations. Applied Physics Letters, 2014, 104, .	1.5	36
88	A procedure to extract the magnetocaloric parameters of the single phases from experimental data of a multiphase system. Applied Physics Letters, 2014, 105, 172405.	1.5	8
89	On the broadening of the magnetic entropy change due to Curie temperature distribution. Journal of Applied Physics, 2014, 115, .	1.1	29
90	Extracting the composition of nanocrystals of mechanically alloyed systems using MÃ¶ssbauer spectroscopy. Journal of Alloys and Compounds, 2014, 610, 92-99.	2.8	7

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91	Relationship between mechanical amorphization and boron integration during processing of FeNbB alloys. Intermetallics, 2014, 49, 98-105.	1.8	12
92	Milling effects on magnetic properties of melt spun Fe-Nb-B alloy. Journal of Applied Physics, 2014, 115, 17B518.	1.1	5
93	Magnetocaloric effect of Co62Nb6Zr2B30 amorphous alloys obtained by mechanical alloying or rapid quenching. Journal of Applied Physics, 2014, 115, .	1.1	26
94	Magnetocaloric effect and critical behavior in Pr_{0.5}Sr_{0.5}MnO₃: an analysis of the validity of the Maxwell relation and the nature of the phase transitions. Journal of Physics Condensed Matter, 2014, 26, 286001.	0.7	35
95	Impact of structural disorder on the magnetic ordering and magnetocaloric response of amorphous Gd-based microwires. Journal of Applied Physics, 2014, 115, .	1.1	14
96	Crystallization kinetics and soft magnetic properties in metalloid-free (Fe, Co)90Zr10 amorphous and nanocrystalline alloys. Journal of Alloys and Compounds, 2014, 615, S213-S216.	2.8	4
97	The Role of Microstructure and Processing on Magnetic Properties of Materials. Jom, 2013, 65, 851-852.	0.9	3
98	Role of starting phase of boron on the mechanical alloying of FeNbB composition. Journal of Alloys and Compounds, 2013, 553, 119-124.	2.8	16
99	Active transient cooling by magnetocaloric materials. Applied Thermal Engineering, 2013, 52, 17-23.	3.0	10
100	The use of amorphous boron powder enhances mechanical alloying in soft magnetic FeNbB alloy: A magnetic study. Journal of Applied Physics, 2013, 113, .	1.1	4
101	Mechanical and magnetocaloric properties of Gd-based amorphous microwires fabricated by melt-extraction. Acta Materialia, 2013, 61, 1284-1293.	3.8	109
102	Influence of magnetic interactions between phases on the magnetocaloric effect of composites. Applied Physics Letters, 2013, 102, .	1.5	38
103	Magnetocaloric effect and critical behavior of amorphous (Gd4Co3)1â^'xSix alloys. Journal of Magnetism and Magnetic Materials, 2013, 343, 184-188.	1.0	21
104	Magnetic properties and magnetocaloric effects in GdCo9Si2 compound with multiple magnetic phase transitions. Journal of Applied Physics, 2013, 113, 17A938.	1.1	3
105	Low hysteresis and large room temperature magnetocaloric effect of Gd5Si2.05â^'xGe1.95â^'xNi2x (2x = 0.08, 0.1) alloys. Journal of Applied Physics, 2013, 113, .	1.1	7
106	Influence of isochronal annealing on the microstructure and magnetic properties of Cu-free HITPERM Fe40.5Co40.5Nb7B12 alloy. Journal of Applied Physics, 2012, 111, .	1.1	18
107	Enhancement of the magnetocaloric effect in composites: Experimental validation. Solid State Communications, 2012, 152, 1590-1594.	0.9	55
108	Excellent magnetocaloric properties of melt-extracted Gd-based amorphous microwires. Applied Physics Letters, 2012, 101, .	1.5	91

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109	The Magnetocaloric Effect and Magnetic Refrigeration Near Room Temperature: Materials and Models. Annual Review of Materials Research, 2012, 42, 305-342.	4.3	929
110	Enhancement of the magnetic refrigerant capacity in partially amorphous Fe70Zr30 powders obtained by mechanical alloying. Intermetallics, 2012, 26, 52-56.	1.8	12
111	Magnetic Multilayers as a Way to Increase the Magnetic Field Responsiveness of Magnetocaloric Materials. Journal of Nanoscience and Nanotechnology, 2012, 12, 7432-7436.	0.9	9
112	The magnetocaloric effect and critical behavior in amorphous Gd60Co40â^'xMnx alloys. Journal of Applied Physics, 2012, 111, .	1.1	39
113	Magnetic Materials for Energy Applications. Jom, 2012, 64, 750-751.	0.9	6
114	Magnetic refrigerants with continuous phase transitions: Amorphous and nanostructured materials. Scripta Materialia, 2012, 67, 594-599.	2.6	50
115	Overview of Amorphous and Nanocrystalline Magnetocaloric Materials Operating Near Room Temperature. Jom, 2012, 64, 782-788.	0.9	49
116	The magnetocaloric effect of partially crystalline Fe-B-Cr-Gd alloys. Journal of Applied Physics, 2012, 111, .	1.1	23
117	Magnetocaloric effect and critical exponents of Fe77Co5.5Ni5.5Zr7B4Cu1: A detailed study. Journal of Applied Physics, 2011, 109, .	1.1	41
118	Origin of the magnetic anomaly and tunneling effect of europium on the ferromagnetic ordering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>Eu</mml:mi><mml:mrow><mml:mn>8</mml:mn><mml:mo>â^'</mml:mo><mml:m mathvariant="normal">x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mi mathvariant="normal">x</mml:mi></mml:msub><mml:msub><mml:mi>Ga</mml:mi><mml:mn>16</mml:mn></mml:msub><mml:msub	1.1	70
119	Physical Review B, 2011, 84, . Magnetocaloric effect in melt-spun FePd ribbon alloy with second order phase transition. Journal of Alloys and Compounds, 2011, 509, 190-194.	2.8	27
120	Two milling time regimes in the evolution of magnetic anisotropy of mechanically alloyed soft magnetic powders. Journal of Alloys and Compounds, 2011, 509, 1407-1410.	2.8	8
121	Magnetic properties and magneto-caloric effect in pseudo-binary intermetallic (Ce,R)2Fe17 compounds (RÂ=ÂY, Pr and Dy). Intermetallics, 2011, 19, 982-987.	1.8	29
122	The magnetocaloric properties of GdScSi and GdScGe. Intermetallics, 2011, 19, 1573-1578.	1.8	35
123	Magneto-caloric effect in the pseudo-binary intermetallic YPrFe17 compound. Materials Chemistry and Physics, 2011, 131, 18-22.	2.0	9
124	Analysis of the magnetoresistance contributions in a nanocrystallized Cr-doped FINEMET alloy. Journal of Magnetism and Magnetic Materials, 2011, 323, 699-707.	1.0	2
125	Direct magnetocaloric measurements of Fe-B-Cr-X (Xâ€‰=â€‰La, Ce) amorphous ribbons. Journal of Applied Physics, 2011, 110, 023907.	1.1	24
126	Tunable magnetocaloric effect in Gd-based glassy ribbons. Journal of Applied Physics, 2011, 110, .	1.1	27

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127	Influence of La and Ce additions on the magnetocaloric effect of Feâ€“Bâ€“Cr-based amorphous alloys. Applied Physics Letters, 2011, 98, .	1.5	57
128	Optimization of the refrigerant capacity in multiphase magnetocaloric materials. Applied Physics Letters, 2011, 98, 102505.	1.5	115
129	Influence of Mn on the magnetocaloric effect of nanoperm-type alloys. Journal of Applied Physics, 2010, 108, .	1.1	30
130	Scaling analysis of the magnetocaloric effect in Gd5Si2Ge1.9X0.1 (X=Al, Cu, Ga, Mn, Fe, Co). Journal of Magnetism and Magnetic Materials, 2010, 322, 218-223.	1.0	124
131	Study of the field dependence of the magnetocaloric effect in Nd1.25Fe11Ti: A multiphase magnetic system. Journal of Magnetism and Magnetic Materials, 2010, 322, 804-807.	1.0	26
132	Scaling laws for the magnetocaloric effect in second order phase transitions: From physics to applications for the characterization of materials. International Journal of Refrigeration, 2010, 33, 465-473.	1.8	532
133	Structure and magnetic properties of Feâ€“Nbâ€“B amorphous/nanocrystalline alloys produced by compaction of mechanically alloyed powders. Journal of Applied Physics, 2010, 107, 073901.	1.1	7
134	Influence of Co and Ni addition on the magnetocaloric effect in Fe88â^'2xCoxNixZr7B4Cu1 soft magnetic amorphous alloys. Applied Physics Letters, 2010, 96, 182506.	1.5	113
135	A new criterion to distinguish the order of magnetic transitions by means of magnetic measurements. Journal of Applied Physics, 2010, 107, .	1.1	69
136	Mechanical amorphization of Fe75Nb10B15 powder: Microstructural and magnetic characterization. Intermetallics, 2010, 18, 565-568.	1.8	9
137	Influence of Co addition on the magnetic properties and magnetocaloric effect of Nanoperm (Fe1â^'XCoX)75Nb10B15 type alloys prepared by mechanical alloying. Journal of Alloys and Compounds, 2010, 496, 7-12.	2.8	26
138	Tricritical point and critical exponents of La0.7Ca0.3â^'xSrxMnO3 (x=0, 0.05, 0.1, 0.2, 0.25) single crystals. Journal of Alloys and Compounds, 2010, 508, 238-244.	2.8	173
139	Tunable Curie temperatures in Gd alloyed Feâ€“Bâ€“Cr magnetocaloric materials. Journal of Alloys and Compounds, 2010, 508, 14-19.	2.8	98
140	Nanocrystalline Nd₂Fe₁₇synthesized by high-energy ball milling: crystal structure, microstructure and magnetic properties. Journal of Physics Condensed Matter, 2010, 22, 216005.	0.7	46
141	Universal behavior for magnetic entropy change in magnetocaloric materials: An analysis on the nature of phase transitions. Physical Review B, 2010, 81, .	1.1	309
142	Field dependence of the magnetocaloric effect in core-shell nanoparticles. Journal of Applied Physics, 2010, 107, .	1.1	58
143	Magnetocaloric effect and refrigerant capacity in Sr-doped Eu8Ga16Ge30 type-I clathrates. Journal of Applied Physics, 2010, 107, .	1.1	19
144	Magnetocaloric Effect in Nanostructured Pr₂Fe₁₇and Nd₂Fe₁₇Synthesized by High-Energy Ball-Milling. Acta Physica Polonica A, 2010, 118, 867-869.	0.2	5

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145	Correlation between microstructure and temperature dependence of magnetic properties in Fe60Co18(Nb,Zr)6B15Cu1 alloy series. Journal of Applied Physics, 2009, 105, .	1.1	11
146	The influence of a minority magnetic phase on the field dependence of the magnetocaloric effect. Journal of Magnetism and Magnetic Materials, 2009, 321, 1115-1120.	1.0	98
147	FePd melt-spun ribbons and nanowires: Fabrication and magneto-structural properties. Journal of Magnetism and Magnetic Materials, 2009, 321, 790-792.	1.0	9
148	Supersaturated solid solution obtained by mechanical alloying of 75% Fe, 20% Ge and 5% Nb mixture at different milling intensities. Journal of Alloys and Compounds, 2009, 469, 169-178.	2.8	15
149	Field dependence of the adiabatic temperature change in second order phase transition materials: Application to Gd. Journal of Applied Physics, 2009, 106, .	1.1	46
150	The magnetocaloric effect in materials with a second order phase transition: Are TC and Tpeak necessarily coincident?. Journal of Applied Physics, 2009, 105, .	1.1	142
151	Magnetocaloric response of Fe75Nb10B15 powders partially amorphized by ball milling. Journal of Applied Physics, 2009, 105, 123922.	1.1	39
152	Influence of the demagnetizing field on the determination of the magnetocaloric effect from magnetization curves. Journal of Applied Physics, 2009, 105, 07A919.	1.1	55
153	High temperature coercivity of Nb-containing HITPERM alloys: Effect of Cu addition. Materials Letters, 2008, 62, 780-783.	1.3	7
154	Tailoring of magnetocaloric response in nanostructured materials: Role of anisotropy. Physical Review B, 2008, 77, .	1.1	49
155	A phenomenological fitting curve for the magnetocaloric effect of materials with a second-order phase transition. Journal of Applied Physics, 2008, 103, .	1.1	146
156	Instantaneous growth approximation describing the nanocrystallization process of amorphous alloys: A cellular automata model. Journal of Non-Crystalline Solids, 2008, 354, 3597-3605.	1.5	18
157	Nanocrystallization effects on the specific heat of Feâ€“Coâ€“Nbâ€“B amorphous alloy. Journal of Non-Crystalline Solids, 2008, 354, 5135-5137.	1.5	7
158	An equivalent time approach for scaling the mechanical alloying processes. Intermetallics, 2008, 16, 470-478.	1.8	23
159	Mechanical alloying of Fe100â^'â^'Nb B (x= 5, 10; y= 10, 15): From pure powder mixture to amorphous phase. Intermetallics, 2008, 16, 1073-1082.	1.8	22
160	A universal curve for the magnetocaloric effect: an analysis based on scaling relations. Journal of Physics Condensed Matter, 2008, 20, 285207.	0.7	278
161	Influence of Ge addition on the magnetocaloric effect of a Co-containing Nanoperm-type alloy. Journal of Applied Physics, 2008, 103, .	1.1	79
162	Magnetocaloric response of FeCrB amorphous alloys: Predicting the magnetic entropy change from the Arrottâ€“Noakes equation of state. Journal of Applied Physics, 2008, 104, .	1.1	63

#	Article	IF	Citations
163	Magnetic permeability of (FeCoGe)88Zr6B5Cu1 alloys: Thermal stability in a wide temperature range. Journal of Applied Physics, 2008, 103, 07E721.	1.1	2
164	Enhanced magnetocaloric response in Crâˆ•Mo containing Nanoperm-type amorphous alloys. Applied Physics Letters, 2007, 90, 052509.	1.5	85
165	Magnetocaloric effect in Mn-containing Hitperm-type alloys. Journal of Applied Physics, 2007, 102, 013908.	1.1	12
166	Thermal and microstructural stability of the soft magnetic Fe60Co18Nb6B15Cu1 alloy. Journal of Non-Crystalline Solids, 2007, 353, 872-874.	1.5	7
167	Thermal and microstructural dependence of the initial permeability of Co60Fe18Nb6(B,Cu)16 alloys. Journal of Alloys and Compounds, 2007, 431, 100-106.	2.8	3
168	Ball milling of Fe83Zr6B10Cu1 amorphous alloy containing quenched in crystals. Intermetallics, 2007, 15, 1132-1138.	1.8	10
169	Nanocrystalline Feâ€“Nbâ€“(B,Ge) alloys from ball milling: Microstructure, thermal stability and magnetic properties. Intermetallics, 2007, 15, 1351-1360.	1.8	11
170	Mean Magnetic Moment of Polydisperse Superparamagnetic Nanoparticles: Correlation Between Grain Size and Magnetic Moment Distributions. Journal of Nanoscience and Nanotechnology, 2007, 7, 1043-1051.	0.9	3
171	Field dependence of the magnetocaloric effect in Gd and (Er _{1âˆ’x} Dy _x)Al ₂ : Does a universal curve exist?. Europhysics Letters, 2007, 79, 47009.	0.7	128
172	Joule heating as a technique for obtaining uncoupled soft and hard magnetic phases in a Finemet alloy. Journal of Applied Physics, 2007, 101, 033909.	1.1	12
173	The magnetocaloric effect in soft magnetic amorphous alloys. Journal of Applied Physics, 2007, 101, 09C503.	1.1	89
174	A constant magnetocaloric response in FeMoCuB amorphous alloys with different Feâˆ•B ratios. Journal of Applied Physics, 2007, 101, 093903.	1.1	113
175	Microstructure and magnetic properties of FeMoBCu alloys: Influence of B content. Acta Materialia, 2007, 55, 5675-5683.	3.8	15
176	Field dependence of the magnetocaloric effect in materials with a second order phase transition: A master curve for the magnetic entropy change. Applied Physics Letters, 2006, 89, 222512.	1.5	890
177	A Finemet-type alloy as a low-cost candidate for high-temperature magnetic refrigeration. Applied Physics Letters, 2006, 88, 042505.	1.5	105
178	MÃ¶ssbauer study of a Feâ€“Zrâ€“Bâ€“Cuâ€“(Ge, Co) nanocrystalline alloy series. Journal of Alloys and Compounds, 2006, 422, 32-39.	2.8	12
179	Multimodal grain size distributions obtained from high-temperature magnetization curves: A thermodynamical approach to the role of anisotropy. Journal of Magnetism and Magnetic Materials, 2006, 304, e483-e485.	1.0	2
180	Ball milling nanocrystallization of arc-melted and melt-spun Fe78Co5Nb3Zr3B5Ge5Cu1alloy: microstructure and magnetic properties. Philosophical Magazine, 2006, 86, 2271-2282.	0.7	1

#	Article	IF	Citations
181	The influence of Co addition on the magnetocaloric effect of Nanoperm-type amorphous alloys. Journal of Applied Physics, 2006, 100, 064307.	1.1	104
182	Influence of Co addition on the magnetocaloric effect of FeCoSiAlGaPCB amorphous alloys. Applied Physics Letters, 2006, 88, 132509.	1.5	87
183	Refrigerant capacity of FeCrMoCuGaPCB amorphous alloys. Journal of Applied Physics, 2006, 100, 083903.	1.1	69
184	Detection of the onset of nanocrystallization by calorimetric and magnetic measurements. Journal of Applied Physics, 2005, 97, 044308.	1.1	5
185	Relationship between coercivity and magnetic moment of superparamagnetic particles with dipolar interaction. Physical Review B, 2005, 72, .	1.1	44
186	Langevin granulometry of the particle size distribution. Journal of Physics A, 2004, 37, 6027-6041.	1.6	19
187	Thermal effects in a Stonerâ€“Wohlfarth model and their influence on magnetic anisotropy determination. Journal of Magnetism and Magnetic Materials, 2004, 278, 28-38.	1.0	27
188	Frequency dependence of the superparamagnetic transition in a Finemet-type nanocrystalline alloy. Physica Status Solidi A, 2004, 201, 3314-3318.	1.7	2
189	Influence of anisotropy on the grain size distribution derived from superparamagnetic magnetization curves. Journal of Magnetism and Magnetic Materials, 2004, 277, 181-186.	1.0	11
190	Microstructure and magnetic permeability of Hitperm (FeMn)CoNbB(Cu) alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1430-1432.	1.0	9
191	Low-temperature spin freezing in soft magnetic nanocrystalline alloys. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 483-485.	1.0	1
192	Microstructure and magnetic properties of Fe78â^'xCoxNb6B15Cu1 (x=18, 39, 60) alloys. Journal of Magnetism and Magnetic Materials, 2003, 254-255, 460-462.	1.0	33
193	Influence of Cu addition on the magnetic and magnetotransport properties of HITPERM-type alloys. Journal of Magnetism and Magnetic Materials, 2003, 262, 170-173.	1.0	7
194	Soft magnetic properties of high-temperature nanocrystalline alloys: Permeability and magnetoimpedance. Journal of Applied Physics, 2003, 93, 2172-2177.	1.1	24
195	High-temperature evolution of coercivity in nanocrystalline alloys. Physical Review B, 2002, 66, .	1.1	16
196	The influence of Cu addition on the crystallization and magnetic properties of FeCoNbB alloys. Journal of Physics Condensed Matter, 2002, 14, 11717-11727.	0.7	40
197	Transition to superparamagnetism in a Cr-containing FINEMET-type alloy. IEEE Transactions on Magnetics, 2002, 38, 3069-3074.	1.2	8
198	The evolution of magnetostriction and coercivity with temperature in the early stages of nanocrystallisation in FeCoNbB(Cu) alloys. Journal of Magnetism and Magnetic Materials, 2002, 250, 260-266.	1.0	17

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199	Magnetic anisotropy distribution and giant magnetoimpedance in Fe73.5SixB22.5â^'xCu1Nb3 (x=9, 16) alloys. Materials Letters, 2001, 49, 256-261.	1.3	5
200	Mo-containing Finemet alloys: microstructure and magnetic properties. Journal of Non-Crystalline Solids, 2001, 287, 366-369.	1.5	14
201	Dipoleâ€"dipole interaction in superparamagnetic nanocrystalline Fe63.5Cr10Si13.5B9Cu1Nb3. Journal of Applied Physics, 2001, 90, 1558-1563.	1.1	20
202	The role of internal and external demagnetizing effects in nanocrystalline alloys. IEEE Transactions on Magnetics, 2001, 37, 2229-2231.	1.2	3
203	Superparamagnetic behaviour in an Fe76Cu1Nb3Si10.5B9.5 alloy. Journal of Magnetism and Magnetic Materials, 2000, 215-216, 400-403.	1.0	16
204	Thermomagnetic study of Fe73.5â^'xCrxSi13.5B9Cu1Nb3 (x=1,3,5,10) alloys. Journal of Magnetism and Magnetic Materials, 2000, 215-216, 404-406.	1.0	12
205	Magnetic anisotropy obtained from demagnetization curves: Influence of particle orientation and interactions. Applied Physics Letters, 1999, 74, 3875-3877.	1.5	9
206	Magnetic properties and nanocrystallization of a Fe63.5Cr10Si13.5B9Cu1Nb3 alloy. Journal of Magnetism and Magnetic Materials, 1999, 203, 60-62.	1.0	26
207	Microstructure and magnetic properties of a FeSiBâ€"CuNb alloy submitted to Joule heating. Journal of Magnetism and Magnetic Materials, 1999, 203, 199-201.	1.0	24
208	Changes in magnetic anisotropy distribution during structural evolution of Fe76Si10.5B9.5Cu1Nb3. Journal of Magnetism and Magnetic Materials, 1998, 185, 353-359.	1.0	32
209	Effect of the Si/B ratio on the magnetic anisotropy distribution of Fe73.5Si22.5â^'xBxCu1Nb3 (x=7,9,16) alloys along nanocrystallization. Journal of Applied Physics, 1998, 84, 5108-5113.	1.1	14
210	Influence of Mo addition in the crystallization of Feâ€'Siâ€'Bâ€'Cuâ€'Nb alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1997, 76, 489-493.	0.6	12
211	Autocalibrating quasistatic Mâ€H hysteresis loop tracer with negligible drift. Review of Scientific Instruments, 1996, 67, 4167-4170.	0.6	25