Luis Miguel Moreno-RamÃ-rez

List of Publications by Year
in descending order

37 papers	1,992 citations	471509 17 h-index	345221 36 g-index
37 all docs	37 docs citations	37 times ranked	1373 citing authors

#	Article	IF	Citations
1	Magnetocaloric effect: From materials research to refrigeration devices. Progress in Materials Science, 2018, 93, 112-232.	32.8	1,031
2	A quantitative criterion for determining the order of magnetic phase transitions using the magnetocaloric effect. Nature Communications, 2018, 9, 2680.	12.8	273
3	First- and second-order phase transitions in RE6Co2Ga (RE = Ho, Dy or Gd) cryogenic magnetocaloric materials. Science China Materials, 2021, 64, 2846-2857.	6.3	62
4	Increased magnetocaloric response of FeMnNiGeSi high-entropy alloys. Acta Materialia, 2021, 212, 116931.	7.9	48
5	The role of Ni in modifying the order of the phase transition of La(Fe,Ni,Si)13. Acta Materialia, 2018, 160, 137-146.	7.9	45
6	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.	7.9	45
7	MnFeNiGeSi high-entropy alloy with large magnetocaloric effect. Journal of Alloys and Compounds, 2021, 855, 157424.	5.5	44
8	Excellent cryogenic magnetocaloric properties in heavy rare-earth based HRENiGa2 (HRE = Dy, Ho, or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	6.3	43
9	Ball milling as a way to produce magnetic and magnetocaloric materials: a review. Journal of Materials Science, 2017, 52, 11834-11850.	3.7	41
10	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.	5.5	29
11	How concurrent thermomagnetic transitions can affect magnetocaloric effect: The Ni49+xMn36-xIn15 Heusler alloy case. Acta Materialia, 2019, 166, 459-465.	7.9	27
12	Magnetocaloric effect of Co62Nb6Zr2B30 amorphous alloys obtained by mechanical alloying or rapid quenching. Journal of Applied Physics, 2014, 115, .	2.5	26
13	Nanostructuring as a procedure to control the field dependence of the magnetocaloric effect. Materials and Design, 2017, 114, 214-219.	7.0	22
14	Analysis of magnetocaloric effect of ball milled amorphous alloys: Demagnetizing factor and Curie temperature distribution. Journal of Alloys and Compounds, 2015, 622, 606-609.	5.5	20
15	Amorphization and evolution of magnetic properties during mechanical alloying of Co62Nb6Zr2B30: Dependence on starting boron microstructure. Journal of Alloys and Compounds, 2014, 585, 485-490.	5.5	19
16	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.	5.5	17
17	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.	5.5	17
18	Characterization of thermal hysteresis in magnetocaloric NiMnIn Heusler alloys by Temperature First Order Reversal Curves (TFORC). Journal of Alloys and Compounds, 2021, 867, 159184.	5.5	17

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19	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.	2.3	15
20	Magnetocaloric response of amorphous and nanocrystalline Cr-containing Vitroperm-type alloys. Journal of Magnetism and Magnetic Materials, 2016, 409, 56-61.	2.3	14
21	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.	3.9	14
22	Analysis of the magnetic field dependence of the isothermal entropy change of inverse magnetocaloric materials. Results in Physics, 2021, 22, 103933.	4.1	14
23	Setting the Basis for the Interpretation of Temperature First Order Reversal Curve (TFORC) Distributions of Magnetocaloric Materials. Metals, 2020, 10, 1039.	2.3	12
24	Hysteresis, latent heat and cycling effects on the magnetocaloric response of (NiMnSi)0.66(Fe2Ge)0.34 alloy. Intermetallics, 2021, 131, 107083.	3.9	12
25	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.	5.5	12
26	A New Method for Determining the Curie Temperature From Magnetocaloric Measurements. IEEE Magnetics Letters, 2016, 7, 1-4.	1.1	10
27	Correction of the shape effect on magnetic entropy change in ball milled Fe70Zr30 alloys. Journal of Alloys and Compounds, 2018, 765, 437-443.	5.5	10
28	A procedure to obtain the parameters of Curie temperature distribution from thermomagnetic and magnetocaloric data. Journal of Non-Crystalline Solids, 2019, 520, 119460.	3.1	10
29	A procedure to extract the magnetocaloric parameters of the single phases from experimental data of a multiphase system. Applied Physics Letters, 2014, 105, 172405.	3.3	8
30	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.	2.8	8
31	Analysis of the Magnetocaloric Effect in Powder Samples Obtained by Ball Milling. Metallurgical and Materials Transactions E, 2015, 2, 131-138.	0.5	7
32	Optimal temperature range for determining magnetocaloric magnitudes from heat capacity. Journal Physics D: Applied Physics, 2016, 49, 495001.	2.8	7
33	Reversibility of the Magnetocaloric Effect in the Bean-Rodbell Model. Magnetochemistry, 2021, 7, 60.	2.4	6
34	Influence of Thermal and Magnetic History on Direct Î"Tad Measurements of Ni49+xMn36â^'xIn15 Heusler Alloys. Metals, 2019, 9, 1144.	2.3	5
35	Influence of Noise on the Determination of Curie Temperature From Magnetocaloric Analysis. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	1
36	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.	3.1	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.	2.3	0