Catalina Salazar MejÃ-a

List of Publications by Year
in descending order

37 papers	492 citations	687363 13 h-index	752698 20 g-index
37 all docs	37 docs citations	37 times ranked	668 citing authors

#	Article	IF	Citations
1	Direct measurements of the magnetocaloric effect in pulsed magnetic fields: The example of the Heusler alloy Ni50Mn35In15. Applied Physics Letters, 2015, 106, .	3.3	72
2	Large field-induced irreversibility in Ni-Mn based Heusler shape-memory alloys: A pulsed magnetic field study. Physical Review B, 2014, 90, .	3.2	29
3	Magnetoelectric response of new Sr2TiMnO6 manganite-like material. Journal of Magnetism and Magnetic Materials, 2008, 320, e104-e106.	2.3	27
4	Pulsed high-magnetic-field experiments: New insights into the magnetocaloric effect in Ni-Mn-In Heusler alloys. Journal of Applied Physics, 2015, 117, .	2.5	27
5	Elastic and magnetoelastic relaxation behaviour of multiferroic (ferromagnetic + ferroelectric +) Tj ETQq1 1 0.784314 rgBT /Overlock 10 … Condensed Matter, 2015, 27, 285901.	1.8	22
6	Uniaxial-stress tuned large magnetic-shape-memory effect in Ni-Co-Mn-Sb Heusler alloys. Applied Physics Letters, 2017, 110, .	3.3	21
7	Magnetocaloric Effect in Alloy Fe49Rh51 in Pulsed Magnetic Fields up to 50 T. Physics of the Solid State, 2020, 62, 160-163.	0.6	19
8	Improved magnetostructural and magnetocaloric reversibility in magnetic Ni-Mn-In shape-memory Heusler alloy by optimizing the geometric compatibility condition. Physical Review Materials, 2019, 3, .	2.4	19
9	Measurement protocol dependence of the magnetocaloric effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Ni</mml:mi></mml:math> - <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Co</mml:mi></mml:math> - <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Mn</	3.8	18
10	A less expensive NiMnGa based Heusler alloy for magnetic refrigeration. Journal of Applied Physics, 2012, 111, .	2.5	17
11	Reversible adiabatic temperature change in the shape memory Heusler alloy <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ni</mml:mi><mml:mrow><mml:mn>2.2</m … : An effect of structural compatibility. Physical Review Materials, 2018, 2, .	2.4	16
12	Effects of Annealing on the Martensitic Transformation of Ni-Based Ferromagnetic Shape Memory Heusler Alloys and Nanoparticles. Metals, 2015, 5, 484-503.	2.3	14
13	Magnetocaloric effect and magnetic phase diagram of Ni-Mn-Ga Heusler alloy in steady and pulsed magnetic fields. Journal of Alloys and Compounds, 2022, 904, 164051.	5.5	14
14	Strain and order-parameter coupling in Ni-Mn-Ga Heusler alloys from resonant ultrasound spectroscopy. Physical Review B, 2018, 97, .	3.2	13
15	Magnetic and magnetocaloric properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ni</mml:mi><mml:mn>47</mml:mn></m … alloys: Direct measurements and first-principles calculations. Physical Review B, 2020, 101, .	3.2	12
16	Magnetic Field Induced Quantum Spin Liquid in the Two Coupled Trillium Lattices of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">K</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow><mml:m		

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19	Elastic and anelastic relaxation behaviour of perovskite multiferroics II: PbZr0.53Ti0.47O3 (PZT)â€“PbFe0.5Ta0.5O3 (PFT). Journal of Materials Science, 2017, 52, 285-304.	3.7	11
20	Effect of chemical and hydrostatic pressure on the coupled magnetostructural transition of Ni-Mn-In Heusler alloys. Physical Review Materials, 2019, 3, .	2.4	11
21	Strain behavior and lattice dynamics in Ni50Mn35In15. Journal of Physics Condensed Matter, 2015, 27, 415402.	1.8	10
22	Magnetic phase coexistence and metastability caused by the first-order magnetic phase transition in the Heusler compound Mn2PtGa. Journal of Applied Physics, 2015, 117, 17D715.	2.5	10
23	Inductive Heating Using a High-Magnetic-Field Pulse to Initiate Chemical Reactions to Generate Composite Materials. Polymers, 2019, 11, 535.	4.5	10
24	Magnetocaloric effect in the Laves-phase<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Ho</mml:mi></mml:mrow><mml:mrow><m in high magnetic fields. Physical Review Materials, 2021, 5, .	2.4	10
25	Suppression of the ferromagnetic order in the Heusler alloy Ni50Mn35In15 by hydrostatic pressure. Applied Physics Letters, 2016, 108, 261903.	3.3	8
26	Anisotropy of the magnetocaloric effect: Example of Mn5Ge3. Journal of Applied Physics, 2020, 128, 103903.	2.5	8
27	Influence of Cr substitution on the reversibility of the magnetocaloric effect in Ni-Cr-Mn-In Heusler alloys. Physical Review Materials, 2021, 5, .	2.4	7
28	Spontaneous and field-induced magnetic phase transitions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Dy</mml:mi><mml:mn>2</mml:mn></mml: Effects of exchange frustration. Physical Review Materials, 2018, 2, .	2.2	6
29	Adiabatic temperature change from non-adiabatic measurements. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	5
30	Changes in elastic moduli as evidence for quadrupolar ordering in the rare-earth frustrated magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Tb</mml:mi><mml:mn>2</mml:mn></mml: mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	3.2	5
31	Pressure tuning the magnetocaloric effect in valence transition compound YbInCu4. Journal of Applied Physics, 2010, 108, 083918.	2.5	4
32	Magnetic phase diagram of the layered superconductor Bi2+xSr2â^’xCuO6+Î´(Bi2201) withTcâ‰^ 7 K. Superconductor Science and Technology, 2012, 25, 105004.	3.5	4
33	Anomalous metamagnetic-like transition in a FeRh/Fe3Pt interface occurring at T â‰^ 120 K in the field-cooled-cooling curves for low magnetic fields. AIP Advances, 2012, 2, 032168.	1.3	2
34	Martensitic and intermartensitic transitions in Ni50Mn20Cu5Ga21Al4 Heusler alloy. Journal of Alloys and Compounds, 2014, 586, 718-721.	5.5	2
35	Pressure-tuning of the magnetic properties of the Heusler compound Mn2PtGa. Journal of Applied Physics, 2018, 124, .	2.5	2
36	Intra-unitcell cluster-cluster magnetic compensation and large exchange bias in cubic alloys. Physical Review B, 2021, 104, .	3.2	2

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37	Crystal field effects in the zig-zag chain compound $SrTm_2O_4$. Journal of Magnetism and Magnetic Materials, 2022, 551, 169020.	2.3	1