

Luana Caron

List of Publications by Year in descending order

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48
papers

2,660
citations

318942

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times ranked

1863
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced reversibility of the magnetoelastic transition in (Mn,Fe) ₂ (P,Si) alloys via minimizing the transition-induced elastic strain energy. <i>Journal of Materials Science and Technology</i> , 2022, 103, 165-176.	5.6	11
2	Magnetocaloric effect in the (Mn,Fe) ₂ (P,Si) system: From bulk to nano. <i>Acta Materialia</i> , 2022, 224, 117532.	3.8	17
3	Direct and Indirect Determination of the Magnetocaloric Effect in the Heusler Compound Ni _{1.7} Pt _{0.3} MnGa. <i>Entropy</i> , 2021, 23, 1273.	1.1	4
4	Co ₃ O ₄ - Fe_2O_3 Nanocrystal Heterostructures with Enhanced Coercivity and Blocking Temperature. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1623-1630.	1.5	1
5	Magnetocaloric effect in transition metal-based compounds. <i>Handbook of Magnetic Materials</i> , 2020, 29, 111-166.	0.6	2
6	Switching the magnetostructural coupling in MnCoGe-based magnetocaloric materials. <i>Physical Review Materials</i> , 2020, 4, .	0.9	8
7	Magnetocaloric Mn ₅ Si ₃ and MnFe ₄ Si ₃ at variable pressure and temperature. <i>Materials Research Express</i> , 2019, 6, 096118.	0.8	5
8	Tuning nature and temperature of structural and magnetic phase transitions of Mn ₃ Cu ^y MyNi ^x Cx (M=Ag, Ni). <i>Journal of Alloys and Compounds</i> , 2019, 793, 185-190.	2.8	1
9	Effect of chemical and hydrostatic pressure on the coupled magnetostructural transition of Ni-Mn-In Heusler alloys. <i>Physical Review Materials</i> , 2019, 3, .	0.9	11
10	Tunable giant magnetocaloric effect with very low hysteresis in $M_nM_{n-3}M_3$. <i>Journal of Alloys and Compounds</i> , 2018, 749, 926-930.	2.8	7
11	Transition metal substitution in Fe ₂ P-based MnFe _{0.95} P _{0.50} Si _{0.50} magnetocaloric compounds. <i>Journal of Alloys and Compounds</i> , 2018, 730, 392-398.	2.8	28
12	Gradual pressure-induced change in the magnetic structure of the noncollinear antiferromagnet Mn_3Mn . <i>Physical Review B</i> , 2018, 97, .	1.1	23
13	Structure, magnetism and magnetocalorics of Fe-rich (Mn,Fe) _{1.95} P ₁ -Si melt-spun ribbons. <i>Journal of Alloys and Compounds</i> , 2017, 710, 446-451.	2.8	24
14	On entropy change measurements around first order phase transitions in caloric materials. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 075401.	0.7	27
15	Effect of Pt substitution on the magnetocrystalline anisotropy of Ni_2MnSi : A competition between chemistry and elasticity. <i>Physical Review B</i> , 2017, 96, .	1.1	23
16	Large Magnetization and Reversible Magnetocaloric Effect at the Second-Order Magnetic Transition in Heusler Materials. <i>Advanced Materials</i> , 2016, 28, 3321-3325.	11.1	83
17	Millisecond direct measurement of the magnetocaloric effect of a Fe ₂ P-based compound by the mirage effect. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	23
18	Tuning the magnetoelastic transition in (Mn,Fe) ₂ (P,Si) by B, C, and N doping. <i>Scripta Materialia</i> , 2016, 124, 129-132.	2.6	32

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19	Kinetic-arrest-induced phase coexistence and metastability in Mn_2P . Physical Review B, 2016, 94, .	1.1	21
20	Short-range magnetic correlations and spin dynamics in the paramagnetic regime of Mn_2P . Physical Review B, 2016, 94, .		
21	Effect of platinum substitution on the structural and magnetic properties of Ni_2MnGa ferromagnetic shape memory alloy. Physical Review B, 2016, 93, .	1.1	26
22	Efficient Room-Temperature Cooling with Magnets. Chemistry of Materials, 2016, 28, 4901-4905.	3.2	45
23	Spin correlations in $(\text{Mn,Fe})_2(\text{P,Si})$ magnetocaloric compounds above Curie temperature. Journal of Science: Advanced Materials and Devices, 2016, 1, 147-151.	1.5	4
24	Morphology and magnetic properties of nanocomposite magnetic multilayers $[(\text{Co}_{40}\text{Fe}_{40}\text{B}_{20})_{34}(\text{SiO}_2)_{66}]/[\text{C}]_{47}$. Journal of Non-Crystalline Solids, 2016, 432, 499-504.	1.5	4
25	Thermal-history dependent magnetoelastic transition in $(\text{Mn, Fe})_2(\text{P, Si})$. , 2015, , .		2
26	Moment evolution across the ferromagnetic phase transition of giant magnetocaloric Mn_2P . Physical Review B, 2015, 91, .	1.1	24
27	Thermal-history dependent magnetoelastic transition in $(\text{Mn,Fe})_2(\text{P,Si})$. Applied Physics Letters, 2015, 107, .	1.5	29
28	Detailed study of the magnetic ordering in $\text{FeMn}_{0.75}\text{Si}_{0.25}$. Journal of Solid State Chemistry, 2015, 221, 240-246.	1.4	16
29	Thermodynamics around the first-order ferromagnetic phase transition of Fe_2P single crystals. Physical Review B, 2014, 90, .	1.1	12
30	Tuning the phase transition in transition-metal-based magnetocaloric compounds. Physical Review B, 2014, 89, .	1.1	58
31	Direct magnetocaloric characterization and simulation of thermomagnetic cycles. Review of Scientific Instruments, 2013, 84, 073907.	0.6	38
32	Tuning the giant inverse magnetocaloric effect in $\text{Mn}_{2-x}\text{Cr}_x\text{Sb}$ compounds. Applied Physics Letters, 2013, 103, .	1.5	68
33	Magnetocrystalline anisotropy and the magnetocaloric effect in Fe_2P . Physical Review B, 2013, 88, .	1.1	65
34	Publisher's Note: Driving Magnetostructural Transitions in Layered Intermetallic Compounds [Phys. Rev. Lett. 110 (2013)]. Physical Review Letters, 2013, 110, .	2.9	1
35	Driving Magnetostructural Transitions in Layered Intermetallic Compounds. Physical Review Letters, 2013, 110, 217211.	2.9	48
36	A new feature of the reduction-diffusion process applied for the synthesis of magnetocaloric $\text{LaFe}_{13-x}\text{Six}$ compounds. Journal of Alloys and Compounds, 2012, 541, 84-87.	2.8	12

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37	Interstitial boron in MnFe(P,As) giant-magnetocaloric alloy. Results in Physics, 2012, 2, 110-113.	2.0	10
38	Magnetostructural study of the (Mn,Fe) ₃ (P,Si) system. Journal of Alloys and Compounds, 2012, 520, 52-58.	2.8	19
39	Pressure-tuned magnetocaloric effect in Mn _{0.93} Cr _x CoGe. Physical Review B, 2011, 84, .	1.1	171
40	Mixed Magnetism for Refrigeration and Energy Conversion. Advanced Energy Materials, 2011, 1, 1215-1219.	10.2	227
41	From single- to double-first-order magnetic phase transition in magnetocaloric Mn _{1-x} Cr _x CoGe compounds. Applied Physics Letters, 2010, 96, .	1.5	202
42	Giant magnetocaloric effects by tailoring the phase transitions. Applied Physics Letters, 2010, 96, .	1.5	281
43	Understanding the inverse magnetocaloric effect in antiferro- and ferrimagnetic arrangements. Journal of Physics Condensed Matter, 2009, 21, 056004.	0.7	67
44	On the determination of the magnetic entropy change in materials with first-order transitions. Journal of Magnetism and Magnetic Materials, 2009, 321, 3559-3566.	1.0	452
45	Structure, magnetism, and magnetocaloric properties of MnFeP _{1-x} Si _x compounds. Journal of Applied Physics, 2008, 103, .	1.1	115
46	Ambient pressure colossal magnetocaloric effect in Mn _{1-x} Cu _x As compounds. Applied Physics Letters, 2007, 90, 242507.	1.5	48
47	Ambient pressure colossal magnetocaloric effect tuned by composition in Mn _{1-x} Fe _x As. Nature Materials, 2006, 5, 802-804.	13.3	197
48	Calculation of the giant magnetocaloric effect in the MnFeP _{0.45} As _{0.55} compound. Physical Review B, 2004, 70, .	1.1	49