

Luana Caron

List of Publications by Year in descending order

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48
papers

2,660
citations

279798

23
h-index

214800

47
g-index

49
all docs

49
docs citations

49
times ranked

1731
citing authors

#	ARTICLE	IF	CITATIONS
1	On the determination of the magnetic entropy change in materials with first-order transitions. Journal of Magnetism and Magnetic Materials, 2009, 321, 3559-3566.	2.3	452
2	Giant magnetocaloric effects by tailoring the phase transitions. Applied Physics Letters, 2010, 96, .	3.3	281
3	Mixed Magnetism for Refrigeration and Energy Conversion. Advanced Energy Materials, 2011, 1, 1215-1219.	19.5	227
4	From single- to double-first-order magnetic phase transition in magnetocaloric $Mn_{1-x}Cr_xCoGe$ compounds. Applied Physics Letters, 2010, 96, .	3.3	202
5	Ambient pressure colossal magnetocaloric effect tuned by composition in $Mn_{1-x}Fe_xAs$. Nature Materials, 2006, 5, 802-804.	27.5	197
6	Pressure-tuned magnetocaloric effect in $Mn_{0.93-x}Cr_xCoGe$. Physical Review B, 2011, 84, .	3.2	171
7	Structure, magnetism, and magnetocaloric properties of $MnFe_{1-x}Six$ compounds. Journal of Applied Physics, 2008, 103, .	2.5	115
8	Large Magnetization and Reversible Magnetocaloric Effect at the Second-Order Magnetic Transition in Heusler Materials. Advanced Materials, 2016, 28, 3321-3325.	21.0	83
9	Tuning the giant inverse magnetocaloric effect in $Mn_{2-x}Cr_xSb$ compounds. Applied Physics Letters, 2013, 103, .	3.3	68
10	Understanding the inverse magnetocaloric effect in antiferro- and ferrimagnetic arrangements. Journal of Physics Condensed Matter, 2009, 21, 056004.	1.8	67
11	Magnetocrystalline anisotropy and the magnetocaloric effect in $Fe_{2-x}P$. Physical Review B, 2013, 88, .	3.2	65
12	Tuning the phase transition in transition-metal-based magnetocaloric compounds. Physical Review B, 2014, 89, .	3.2	58
13	Calculation of the giant magnetocaloric effect in the $MnFe_{0.45}As_{0.55}$ compound. Physical Review B, 2004, 70, .	3.2	49
14	Ambient pressure colossal magnetocaloric effect in $Mn_{1-x}Cu_xAs$ compounds. Applied Physics Letters, 2007, 90, 242507.	3.3	48
15	Driving Magnetostructural Transitions in Layered Intermetallic Compounds. Physical Review Letters, 2013, 110, 217211.	7.8	48
16	Efficient Room-Temperature Cooling with Magnets. Chemistry of Materials, 2016, 28, 4901-4905.	6.7	45
17	Direct magnetocaloric characterization and simulation of thermomagnetic cycles. Review of Scientific Instruments, 2013, 84, 073907.	1.3	38
18	Tuning the magnetoelastic transition in $(Mn,Fe)_2(P,Si)$ by B, C, and N doping. Scripta Materialia, 2016, 124, 129-132.	5.2	32

#	ARTICLE	IF	CITATIONS
19	Thermal-history dependent magnetoelastic transition in (Mn,Fe) ₂ (P,Si). Applied Physics Letters, 2015, 107, .	3.3	29
20	Transition metal substitution in Fe ₂ P-based MnFe _{0.95} P _{0.50} Si _{0.50} magnetocaloric compounds. Journal of Alloys and Compounds, 2018, 730, 392-398.	5.5	28
21	On entropy change measurements around first order phase transitions in caloric materials. Journal of Physics Condensed Matter, 2017, 29, 075401.	1.8	27
22	Effect of platinum substitution on the structural and magnetic properties of $\text{Ni}_{1-x}\text{Mn}_x\text{Ga}$ ferromagnetic shape memory alloy. Physical Review B, 2016, 93, .	3.2	26
23	Moment evolution across the ferromagnetic phase transition of giant magnetocaloric $\text{Mn}_{1-x}\text{Ni}_x\text{Ga}$. Physical Review B, 2015, 91, .	3.2	24
24	Structure, magnetism and magnetocalorics of Fe-rich (Mn,Fe) _{1.95} P ₁ -Si melt-spun ribbons. Journal of Alloys and Compounds, 2017, 710, 446-451.	5.5	24
25	Millisecond direct measurement of the magnetocaloric effect of a Fe ₂ P-based compound by the mirage effect. Applied Physics Letters, 2016, 108, .	3.3	23
26	Gradual pressure-induced change in the magnetic structure of the noncollinear antiferromagnet Mn_3Mn . Physical Review B, 2018, 97, .	3.2	23
27	Effect of Pt substitution on the magnetocrystalline anisotropy of $\text{Ni}_{1-x}\text{Mn}_x\text{Ga}$: A competition between chemistry and elasticity. Physical Review B, 2017, 96, .	3.2	23
28	Kinetic-arrest-induced phase coexistence and metastability in Mn_3Mn . Physical Review B, 2016, 94, .	3.2	21
29	Short-range magnetic correlations and spin dynamics in the paramagnetic regime of Mn_3Mn . Physical Review B, 2016, 94, .	3.2	21
30	Magnetostructural study of the (Mn,Fe) ₃ (P,Si) system. Journal of Alloys and Compounds, 2012, 520, 52-58.	5.5	19
31	Magnetocaloric effect in the (Mn,Fe) ₂ (P,Si) system: From bulk to nano. Acta Materialia, 2022, 224, 117532.	7.9	17
32	Detailed study of the magnetic ordering in FeMn _{0.75} Si _{0.25} . Journal of Solid State Chemistry, 2015, 221, 240-246.	2.9	16
33	A new feature of the reduction-diffusion process applied for the synthesis of magnetocaloric LaFe ₁₃ Si ₆ compounds. Journal of Alloys and Compounds, 2012, 541, 84-87.	5.5	12
34	Thermodynamics around the first-order ferromagnetic phase transition of $\text{Fe}_{1-x}\text{Mn}_x\text{P}$ single crystals. Physical Review B, 2014, 90, .	3.2	12
35	Enhanced reversibility of the magnetoelastic transition in (Mn,Fe) ₂ (P,Si) alloys via minimizing the transition-induced elastic strain energy. Journal of Materials Science and Technology, 2022, 103, 165-176.	10.7	11
36	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

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37	Interstitial boron in MnFe(P,As) giant-magnetocaloric alloy. Results in Physics, 2012, 2, 110-113.	4.1	10
38	Switching the magnetostructural coupling in MnCoGe-based magnetocaloric materials. Physical Review Materials, 2020, 4, .	2.4	8
39	Tunable giant magnetocaloric effect with very low hysteresis in $Mn_{1-x}Fe_xSi_2$. Journal of Alloys and Compounds, 2018, 749, 926-930.	5.5	7
40	Magnetocaloric Mn_5Si_3 and $MnFe_4Si_3$ at variable pressure and temperature. Materials Research Express, 2019, 6, 096118.	1.6	5
41	Spin correlations in $(Mn,Fe)_2(P,Si)$ magnetocaloric compounds above Curie temperature. Journal of Science: Advanced Materials and Devices, 2016, 1, 147-151.	3.1	4
42	Morphology and magnetic properties of nanocomposite magnetic multilayers $[(Co_{40}Fe_{40}B_{20})_{34}(SiO_2)_{66}]/[C]_{47}$. Journal of Non-Crystalline Solids, 2016, 432, 499-504.	3.1	4
43	Direct and Indirect Determination of the Magnetocaloric Effect in the Heusler Compound $Ni_{1.7}Pt_{0.3}MnGa$. Entropy, 2021, 23, 1273.	2.2	4
44	Thermal-history dependent magnetoelastic transition in $(Mn, Fe)_{1-x}(P, Si)_x$, 2015, , .		2
45	Magnetocaloric effect in transition metal-based compounds. Handbook of Magnetic Materials, 2020, 29, 111-166.	0.6	2
46	Publisher's Note: Driving Magnetostructural Transitions in Layered Intermetallic Compounds [Phys. Rev. Lett. 110 , 217211 (2013)]. Physical Review Letters, 2013, 110, .	7.8	1
47	Tuning nature and temperature of structural and magnetic phase transitions of $Mn_3Cu_{1-y}MyNi_xCx$ (M=Ag, Ni). Journal of Alloys and Compounds, 2019, 793, 185-190.	5.5	1
48	Co_3O_4 - Fe_2O_3 Nanocrystal Heterostructures with Enhanced Coercivity and Blocking Temperature. Journal of Physical Chemistry C, 2020, 124, 1623-1630.	3.1	1