

Francois Guillou

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63

papers

1,114

citations

19

h-index

32

g-index

70

ext. papers

1,305

ext. citations

4.1

avg, IF

4.32

L-index

#	Paper	IF	Citations
63	Taming the first-order transition in giant magnetocaloric materials. <i>Advanced Materials</i> , 2014 , 26, 2671-5, 2615	24	185
62	Direct measurement of the magnetocaloric effect in MnFe(P,X)(X= As, Ge, Si) materials. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 075002	3	76
61	Magnetocaloric effect, cyclability and coefficient of refrigerant performance in the MnFe(P, Si, B) system. <i>Journal of Applied Physics</i> , 2014 , 116, 063903	2.5	73
60	Ordering process and ferroelectricity in a spinel derived from FeV ₂ O ₄ . <i>Physical Review B</i> , 2012 , 85,	3.3	61
59	Spin Hall magnetoresistance in a canted ferrimagnet. <i>Physical Review B</i> , 2016 , 94,	3.3	55
58	Non-hysteretic first-order phase transition with large latent heat and giant low-field magnetocaloric effect. <i>Nature Communications</i> , 2018 , 9, 2925	17.4	54
57	An experimental comparison of four magnetocaloric regenerators using three different materials. <i>International Journal of Refrigeration</i> , 2014 , 37, 147-155	3.8	43
56	About the mechanical stability of MnFe(P,Si,B) giant-magnetocaloric materials. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 569-574	5.7	40
55	Efficient Room-Temperature Cooling with Magnets. <i>Chemistry of Materials</i> , 2016 , 28, 4901-4905	9.6	36
54	Coupled valence and spin state transition in (Pr _{0.7} Sm _{0.3}) _{0.7} Ca _{0.3} CoO ₃ . <i>Physical Review B</i> , 2013 , 87,	3.3	33
53	Anisotropic magnetocaloric effect in all-ferromagnetic (La _{0.7} Sr _{0.3} MnO ₃ /SrRuO ₃) superlattices. <i>Applied Physics Letters</i> , 2010 , 97, 112506	3.4	32
52	Magnetocaloric effect and improved relative cooling power in (La _{0.7} Sr _{0.3})MnO ₃ /SrRuO ₃ superlattices. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 052201	1.8	30
51	Effect of boron substitution on the ferromagnetic transition of MnFe _{0.95} P _{2/3} Si _{1/3} . <i>Journal of Alloys and Compounds</i> , 2015 , 632, 717-722	5.7	29
50	High-resolution hard x-ray magnetic imaging with dichroic ptychography. <i>Physical Review B</i> , 2016 , 94,	3.3	26
49	Magnetic transitions in Mn ₃ O ₄ and an anomaly at 38 K in magnetization and specific heat. <i>Physical Review B</i> , 2011 , 83,	3.3	24
48	Coexistence of inverse and normal magnetocaloric effect in A-site ordered NdBaMn ₂ O ₆ . <i>Applied Physics Letters</i> , 2010 , 96, 242506	3.4	23
47	Moment evolution across the ferromagnetic phase transition of giant magnetocaloric (Mn,Fe) ₂ (P,Si,B) compounds. <i>Physical Review B</i> , 2015 , 91,	3.3	22

46	Calorimetric investigation of the magnetocaloric effect in Ni ₄₅ Co ₅ Mn _{37.5} In _{12.5} . <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 255001	3	21
45	Microscopic mechanism of the giant magnetocaloric effect in MnCoGe alloys probed by x-ray magnetic circular dichroism. <i>Applied Physics Letters</i> , 2016 , 108, 122405	3-4	20
44	Manipulating the stability of crystallographic and magnetic sub-lattices: A first-order magnetoelastic transformation in transition metal based Laves phase. <i>Acta Materialia</i> , 2018 , 154, 365-374	8-4	19
43	Plastically deformed LaBeSi: Microstructural evolution, magnetocaloric effect and anisotropic thermal conductivity. <i>Acta Materialia</i> , 2020 , 187, 1-11	8.4	17
42	Electronic and magnetic properties of phosphorus across the first-order ferromagnetic transition of (Mn,Fe) ₂ (P,Si,B) giant magnetocaloric materials. <i>Physical Review B</i> , 2015 , 92,	3-3	15
41	Tuning the metamagnetic transition in the (Co, Fe)MnP system for magnetocaloric purposes. <i>Journal of Applied Physics</i> , 2013 , 114, 143903	2.5	14
40	Influence of thermal conductivity on the dynamic response of magnetocaloric materials. <i>International Journal of Refrigeration</i> , 2015 , 59, 29-36	3.8	13
39	Field Dependence of the Magnetocaloric Effect in MnFe(P,Si) Materials. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	11
38	High pressure XANES and XMCD in the tender X-ray energy range. <i>High Pressure Research</i> , 2016 , 36, 445-457	4-5	11
37	First-order ferromagnetic transition in single-crystalline (Mn,Fe) ₂ (P,Si). <i>Applied Physics Letters</i> , 2015 , 107, 162403	3-4	10
36	Evolution of spin and valence states of (Pr _{0.7} Sm _{0.3}) _{0.7} Ca _{0.3} CoO ₃ at high temperature and high pressure. <i>Physical Review B</i> , 2014 , 90,	3-3	9
35	Development of a new magnetocaloric material used in a magnetic refrigeration device. <i>EPJ Web of Conferences</i> , 2012 , 29, 00021	0-3	9
34	On the derivation of the magnetocaloric properties in ferrimagnetic spinel Mn ₃ O ₄ . <i>Journal of Applied Physics</i> , 2011 , 109, 053902	2.5	9
33	Structural, magnetic and magnetocaloric properties of (Mn, Co) ₂ (Si, P) compounds. <i>Journal of Alloys and Compounds</i> , 2015 , 625, 95-100	5-7	8
32	Boron addition in MnFe(P,Si) magnetocaloric materials: interstitial vs. substitutional scenarii. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 1007-1010		8
31	Crystal, magnetic, calorimetric and electronic structure investigation of GdScGe Sb compounds. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 485802	1.8	8
30	Cobalt spin state above the valence and spin-state transition in (Pr _{0.7} Sm _{0.3}) _{0.7} Ca _{0.3} CoO ₃ . <i>Solid State Sciences</i> , 2013 , 24, 120-124	3-4	7
29	Structural and magnetic phase diagrams of MnFe _{0.6} Ni _{0.4} (Si,Ge) alloys and their giant magnetocaloric effect probed by heat capacity measurements. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 494, 165785	2.8	7

28	Large recalescence-like event at the first cooling across the magnetic transition of (Mn,Fe) ₂ (P,Si) magnetocaloric materials. <i>Scripta Materialia</i> , 2019 , 160, 81-85	5.6	6
27	First-order magnetic transition, magnetocaloric effect and moment formation in MnFe(P,Ge) magnetocaloric materials revisited by x-ray magnetic circular dichroism. <i>Physica B: Condensed Matter</i> , 2018 , 544, 66-72	2.8	5
26	Jumps in entropy and magnetic susceptibility at the valence and spin-state transition in a cobalt oxide. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 246003	1.8	5
25	Room temperature magnetic anisotropy in Fe ₂ P-type transition metal based alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 800, 403-411	5.7	4
24	Revisiting Bond Breaking and Making in EuCo P : Where are the Electrons?. <i>Chemistry - A European Journal</i> , 2019 , 25, 5865-5869	4.8	4
23	Free-energy analysis of the nonhysteretic first-order phase transition of Eu ₂ In. <i>Physical Review B</i> , 2020 , 102,	3.3	4
22	Structure and magnetic properties of Fe _{1.95-x} Ni _x P _{1-y} Si _y alloys. <i>Solid State Communications</i> , 2020 , 319, 113996	1.6	4
21	Magnetic properties, anisotropy parameters and magnetocaloric effect of flux grown MnFe ₄ Si ₃ single crystal. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 504, 166597	2.8	4
20	Investigation of the magnetocaloric effect in double distorted perovskites Ca(Cu _{3-x} Mn _x)Mn ₄ O ₁₂ (1-x/2): From standard ferrimagnetism to glassy ferrimagnetism. <i>Physical Review B</i> , 2011 , 84,	3.3	4
19	Metamagnetic transition, magnetocaloric effect and electronic structure of the rare-earth anti-perovskite SnOEu ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 501, 166405	2.8	3
18	Determination of the magnetocaloric entropy change in the presence of phase separation and metastability: The case of Eu _{0.58} Sr _{0.42} MnO ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 363, 145-151	2.8	2
17	Valence and spin-state transition in cobaltates revisited by x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2017 , 95,	3.3	2
16	Drastic Influence of Synthesis Conditions on Structural, Magnetic, and Magnetocaloric Properties of Mn(Fe,Ni)(Si,Al) Compounds. <i>Crystals</i> , 2022 , 12, 233	2.3	2
15	Magnetocaloric Effect, Magnetoresistance of Sc _{0.28} Ti _{0.72} Fe ₂ , and Phase Diagrams of Sc _{0.28} Ti _{0.72} Fe _{2-x} T _x Alloys with T = Mn or Co. <i>Crystals</i> , 2020 , 10, 410	2.3	2
14	The first-order magnetoelastic transition in Eu ₂ In: A ¹⁵¹ Eu Mössbauer study. <i>AIP Advances</i> , 2019 , 9, 125137	3.5	2
13	(Fe,Co) ₂ (P,Si) rare-earth free permanent magnets: From macroscopic single crystals to submicron-sized particles. <i>Acta Materialia</i> , 2021 , 221, 117388	8.4	1
12	Burstlike first-order transformation studied by semi-adiabatic relaxation calorimetry. <i>Journal of Applied Physics</i> , 2021 , 130, 165106	2.5	1
11	Two-steps process in the first-order transformation of giant magnetocaloric materials. <i>Acta Materialia</i> , 2022 , 231, 117869	8.4	1

10	First-order antiferromagnetic to ferromagnetic transition in Mn(Co,Fe)P probed by x-ray absorption experiments. <i>Journal of Physics: Conference Series</i> , 2017 , 903, 012043	0.3	o
9	Determination of Absolute Structure of Chiral Crystals Using Three-Wave X-ray Diffraction. <i>Crystals</i> , 2021 , 11, 1389	2.3	o
8	Thermodynamic model of the coupled valence and spin state transition in cobaltates. <i>Journal of Physics Condensed Matter</i> , 2021 , 33, 095801	1.8	o
7	Structural and magnetic properties of Sc1-Nb Fe2 intermetallics showing anomalous zero thermal expansion. <i>Intermetallics</i> , 2021 , 136, 107252	3.5	o
6	Heat capacity of a MnFe(P,Si,B) compound with first-order magnetic transition. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 541, 168513	2.8	o
5	XAS and XMCD Reveal a Cobalt(II) Imide Undergoes High-Pressure-Induced Spin Crossover. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5784-5792	3.8	o
4	Antiferromagnetism of ECe under hydrostatic pressure. <i>Solid State Communications</i> , 2019 , 294, 36-38	1.6	
3	Revisiting Bond Breaking and Making in EuCo2P2: Where are the Electrons?. <i>Chemistry - A European Journal</i> , 2019 , 25, 5813-5813	4.8	
2	Crystal structures and magnetic properties of Fe1.93-Co P1-Si compounds. <i>Journal of Alloys and Compounds</i> , 2022 , 903, 163770	5.7	
1	Tuning the Magnetically Segregated Nanolayering in MnNiAs Intermetallics. <i>Chemistry of Materials</i> , 2021 , 33, 3002-3010	9.6	