Francois Guillou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70 1,305 4.1 4.32 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
63	Crystal structures and magnetic properties of Fe1.93-Co P1-Si compounds. <i>Journal of Alloys and Compounds</i> , 2022 , 903, 163770	5.7	
62	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
61	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
60	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	0
59	II wo-steps process in the first-order transformation of giant magnetocaloric materials. <i>Acta Materialia</i> , 2022 , 231, 117869	8.4	1
58	Determination of Absolute Structure of Chiral Crystals Using Three-Wave X-ray Diffraction. <i>Crystals</i> , 2021 , 11, 1389	2.3	0
57	(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
56	Burstlike first-order transformation studied by semi-adiabatic relaxation calorimetry. <i>Journal of Applied Physics</i> , 2021 , 130, 165106	2.5	1
55	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
54	Tuning the Magnetically Segregated Nanolayering in MnNiAs Intermetallics. <i>Chemistry of Materials</i> , 2021 , 33, 3002-3010	9.6	
53	Structural and magnetic properties of Sc1-Nb Fe2 intermetallics showing anomalous zero thermal expansion. <i>Intermetallics</i> , 2021 , 136, 107252	3.5	O
52	Free-energy analysis of the nonhysteretic first-order phase transition of Eu2In. <i>Physical Review B</i> , 2020 , 102,	3.3	4
51	Structure and magnetic properties of Fe1.95-xNixP1-ySiy alloys. <i>Solid State Communications</i> , 2020 , 319, 113996	1.6	4
50	Magnetic properties, anisotropy parameters and magnetocaloric effect of flux grown MnFe4Si3 single crystal. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 504, 166597	2.8	4
49	Plastically deformed La B eBi: Microstructural evolution, magnetocaloric effect and anisotropic thermal conductivity. <i>Acta Materialia</i> , 2020 , 187, 1-11	8.4	17
48	Magnetocaloric Effect, Magnetoresistance of Sc0.28Ti0.72Fe2, and Phase Diagrams of Sc0.28Ti0.72Fe2 $\mbox{\ensuremath{\square}}$ Tx Alloys with T = Mn or Co. <i>Crystals</i> , 2020 , 10, 410	2.3	2
47	Metamagnetic transition, magnetocaloric effect and electronic structure of the rare-earth anti-perovskite SnOEu3. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 501, 166405	2.8	3

(2016-2020)

46	Structural and magnetic phase diagrams of MnFe0.6Ni0.4(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	
45	Room temperature magnetic anisotropy in Fe2P-type transition metal based alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 800, 403-411	5.7	4	
44	Antiferromagnetism of ECe under hydrostatic pressure. <i>Solid State Communications</i> , 2019 , 294, 36-38	1.6		
43	Revisiting Bond Breaking and Making in EuCo2P2: Where are the Electrons?. <i>Chemistry - A European Journal</i> , 2019 , 25, 5813-5813	4.8		
42	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	
41	The first-order magnetoelastic transition in Eu2In: A 151Eu MBsbauer study. <i>AIP Advances</i> , 2019 , 9, 125	1 37 5	2	
40	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	
39	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	
38	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	
37	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, 365-3	744	19	
36	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	0	
35	Valence and spin-state transition in cobaltates revisited by x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2017 , 95,	3.3	2	
34	Crystal, magnetic, calorimetric and electronic structure investigation of GdScGe Sb compounds. Journal of Physics Condensed Matter, 2017 , 29, 485802	1.8	8	
33	Spin Hall magnetoresistance in a canted ferrimagnet. <i>Physical Review B</i> , 2016 , 94,	3.3	55	
32	High-resolution hard x-ray magnetic imaging with dichroic ptychography. <i>Physical Review B</i> , 2016 , 94,	3.3	26	
31	Efficient Room-Temperature Cooling with Magnets. <i>Chemistry of Materials</i> , 2016 , 28, 4901-4905	9.6	36	
30	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	
29	High pressure XANES and XMCD in the tender X-ray energy range. <i>High Pressure Research</i> , 2016 , 36, 445	5 -46 7	11	

28	Influence of thermal conductivity on the dynamic response of magnetocaloric materials. <i>International Journal of Refrigeration</i> , 2015 , 59, 29-36	3.8	13
27	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
26	Field Dependence of the Magnetocaloric Effect in MnFe(P,Si) Materials. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	11
25	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
24	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
23	First-order ferromagnetic transition in single-crystalline (Mn,Fe)2(P,Si). <i>Applied Physics Letters</i> , 2015 , 107, 162403	3.4	10
22	Effect of boron substitution on the ferromagnetic transition of MnFe0.95P2/3Si1/3. <i>Journal of Alloys and Compounds</i> , 2015 , 632, 717-722	5.7	29
21	Taming the first-order transition in giant magnetocaloric materials. <i>Advanced Materials</i> , 2014 , 26, 2671-5, 2615	24	185
20	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
19	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
18	Evolution of spin and valence states of (Pr0.7Sm0.3)0.7Ca0.3CoO3 at high temperature and high pressure. <i>Physical Review B</i> , 2014 , 90,	3.3	9
17	Determination of the magnetocaloric entropy change in the presence of phase separation and metastability: The case of Eu0.58Sr0.42MnO3. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 363, 145-151	2.8	2
16	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
15	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
14	An experimental comparison of four magnetocaloric regenerators using three different materials. <i>International Journal of Refrigeration</i> , 2014 , 37, 147-155	3.8	43
13	Cobalt spin state above the valence and spin-state transition in (Pr0.7Sm0.3)0.7Ca0.3CoO3. <i>Solid State Sciences</i> , 2013 , 24, 120-124	3.4	7
13		3.4	7

LIST OF PUBLICATIONS

10	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
9	Development of a new magnetocaloric material used in a magnetic refrigeration device. <i>EPJ Web of Conferences</i> , 2012 , 29, 00021	0.3	9
8	Ordering process and ferroelectricity in a spinel derived from FeV2O4. <i>Physical Review B</i> , 2012 , 85,	3.3	61
7	Calorimetric investigation of the magnetocaloric effect in Ni45Co5Mn37.5In12.5. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 255001	3	21
6	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
5	On the derivation of the magnetocaloric properties in ferrimagnetic spinel Mn3O4. <i>Journal of Applied Physics</i> , 2011 , 109, 053902	2.5	9
4	Magnetic transitions in Mn3O4 and an anomaly at 38 K in magnetization and specific heat. <i>Physical Review B</i> , 2011 , 83,	3.3	24
3	Investigation of the magnetocaloric effect in double distorted perovskites Ca(Cu3¼Mnx)Mn4O12(1?x?2): From standard ferrimagnetism to glassy ferrimagnetism. <i>Physical Review B</i> , 2011 , 84,	3.3	4
2	Anisotropic magnetocaloric effect in all-ferromagnetic (La0.7Sr0.3MnO3/SrRuO3) superlattices. <i>Applied Physics Letters</i> , 2010 , 97, 112506	3.4	32
1	Coexistence of inverse and normal magnetocaloric effect in A-site ordered NdBaMn2O6. <i>Applied Physics Letters</i> , 2010 , 96, 242506	3.4	23