

Francesco Cugini

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7312234/publications.pdf>

Version: 2024-02-01

37
papers

571
citations

759233

12
h-index

642732

23
g-index

38
all docs

38
docs citations

38
times ranked

693
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding magnetic relaxation in single-ion magnets with high blocking temperature. <i>Physical Review B</i> , 2020, 101, .	3.2	94
2	Convergence of direct and indirect methods in the magnetocaloric study of first order transformations: The case of Ni-Co-Mn-Ga Heusler alloys. <i>Physical Review B</i> , 2012, 86, .	3.2	63
3	Co and In Doped Ni-Mn-Ga Magnetic Shape Memory Alloys: A Thorough Structural, Magnetic and Magnetocaloric Study. <i>Entropy</i> , 2014, 16, 2204-2222.	2.2	46
4	Direct magnetocaloric characterization and simulation of thermomagnetic cycles. <i>Review of Scientific Instruments</i> , 2013, 84, 073907.	1.3	38
5	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, .	3.3	23
6	Influence of thermal conductivity on the dynamic response of magnetocaloric materials. <i>International Journal of Refrigeration</i> , 2015, 59, 29-36.	3.4	22
7	Influence of the transition width on the magnetocaloric effect across the magnetostructural transition of Heusler alloys. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150306.	3.4	22
8	Dynamics of nonergodic ferromagnetic/antiferromagnetic ordering and magnetocalorics in antiperovskite Mn_3Co . <i>Physical Review B</i> , 2017, 96, .	3.2	20
9	Tuning the magnetic and magnetocaloric properties of austenitic Ni-Mn-(In,Sn) Heuslers. <i>Scripta Materialia</i> , 2019, 170, 48-51.	5.2	19
10	Cold working consequence on the magnetocaloric effect of Ni ₅₀ Mn ₃₄ In ₁₆ Heusler alloy. <i>Journal of Alloys and Compounds</i> , 2018, 749, 211-216.	5.5	18
11	On the direct measurement of the adiabatic temperature change of magnetocaloric materials. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	18
12	Non-contact direct measurement of the magnetocaloric effect in thin samples. <i>Review of Scientific Instruments</i> , 2014, 85, 074902.	1.3	16
13	Rapid microwave synthesis of magnetocaloric Ni ₂ MnSn Heusler compounds. <i>Scripta Materialia</i> , 2020, 176, 63-66.	5.2	13
14	Interfacial Thermal Resistance in Magnetocaloric Epoxy-Bonded LaFeCoSi Composites. <i>Energy Technology</i> , 2018, 6, 1448-1452.	3.8	11
15	Giant magneto-electric coupling in 100 nm thick Co capped by ZnO nanorods. <i>Nanoscale</i> , 2018, 10, 1326-1336.	5.6	11
16	Scale-Up of Magnetocaloric NiCoMnIn Heuslers by Powder Metallurgy for Room Temperature Magnetic Refrigeration. <i>Frontiers in Energy Research</i> , 2020, 7, .	2.3	11
17	Magnetocaloric properties at the austenitic Curie transition in Cu and Fe substituted Ni-Mn-In Heusler compounds. <i>Journal of Alloys and Compounds</i> , 2022, 899, 163249.	5.5	11
18	Direct measurement of the magnetocaloric effect on micrometric Ni-Mn-(In,Sn) ribbons by the mirage effect under pulsed magnetic field. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	10

#	ARTICLE	IF	CITATIONS
19	Structure and magnetic properties of Fe-Co alloy nanoparticles synthesized by pulsed-laser inert gas condensation. Journal of Alloys and Compounds, 2022, 890, 161863.	5.5	10
20	Adiabatic temperature change, magnetic entropy change and critical behavior near the ferromagnetic-paramagnetic phase transition in La _{0.7} (Ca,Sr) _{0.3} MnO ₃ perovskite. Phase Transitions, 2018, 91, 691-702.	1.3	9
21	Direct measurements of the magnetocaloric effect of Fe ₄₉ Rh ₅₁ using the mirage effect. Journal of Applied Physics, 2020, 127, .	2.5	9
22	Multifunctional Ni-Mn-Ga and Ni-Mn-Cu-Ga Heusler particles towards the nanoscale by ball-milling technique. Journal of Alloys and Compounds, 2021, 872, 159747.	5.5	9
23	Effective decoupling of ferromagnetic sublattices by frustration in Heusler alloys. Physical Review B, 2022, 105, .	3.2	9
24	On the Broadening of the Martensitic Transition in Heusler Alloys: From Microscopic Features to Magnetocaloric Properties. Jom, 2017, 69, 1422-1426.	1.9	8
25	Preliminary Investigation on a Rotary Magnetocaloric Refrigerator Prototype. Energy Procedia, 2017, 142, 1288-1293.	1.8	8
26	First Experimental Evidences of the Ferroelectric Nature of Struvite. Crystal Growth and Design, 2020, 20, 4454-4460.	3.0	7
27	Lattice strain accommodation and absence of pre-transition phases in Ni ₅₀ Mn ₂₅ xIn ₂₅ . Journal of Physics Condensed Matter, 2020, 32, 505801.	1.8	6
28	On the versatility and distinctiveness in the use of microwave energy for the ignition of low exothermic Ni-Ti intermetallics combustion synthesis. Materials Chemistry and Physics, 2019, 233, 220-229.	4.0	5
29	Investigation of the magnetic, electronic and magnetocaloric properties of La _{0.7} (Ca,Sr) _{0.3} Mn _{1-x} Gd _x O ₃ manganites. Journal of Magnetism and Magnetic Materials, 2017, 441, 776-786.	2.3	4
30	Slow Magnetic Relaxation of a 12-Metallacrown-4 Complex with a Manganese(III)-Copper(II) Heterometallic Ring Motif. Inorganic Chemistry, 2020, 59, 11894-11900.	4.0	4
31	Strong magneto-volume effects and hysteresis reduction in the In-doped (NiCo) ₂ MnGa Heusler alloys. Journal of Alloys and Compounds, 2016, 685, 142-146.	5.5	3
32	Ubiquitous first-order transitions and site-selective vanishing of the magnetic moment in giant magnetocaloric MnFeSiP alloys detected by μ SR. Physical Review B, 2019, 100, .	3.2	3
33	High-temperature magnetic coercivity of CNTs filled with multi-phase Fe-based nanoparticles. Journal of Magnetism and Magnetic Materials, 2020, 496, 165917.	2.3	3
34	Effect of size and disorder on martensitic phase transition and thermal hysteresis in milled Ni-Mn-In-Co microparticles. Journal of Alloys and Compounds, 2022, 906, 164377.	5.5	3
35	Mechanosynthesis of multiferroic hybrid organic-inorganic [NH ₄][M(HCOO) ₃] (M=Co ²⁺ , Mn ²⁺ , Zn ²⁺ , Ni ²⁺ , Cu ²⁺) formate-based frameworks. Journal of Alloys and Compounds, 2022, 899, 163288.	5.5	2
36	Magnetic phase diagram of the austenitic Mn-rich Ni-Mn-(In,Sn) Heusler alloys. Electronic Structure, 2022, .	2.8	1

#	ARTICLE	IF	CITATIONS
37	Waste of batteries management: Synthesis of magnetocaloric manganite compound from the REEs mixture generated during hydrometallurgical processing of NiMH batteries. <i>Sustainable Materials and Technologies</i> , 2021, 28, e00267.	3.3	0