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List of Publications by Year
in descending order

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28	676	471509 17	552781 26
papers	citations	h-index	g-index

30	30	30	737
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microstructural and magnetic properties of Mn-Fe-P-Si (Fe2 P-type) magnetocaloric compounds. Acta Materialia, 2017, 132, 222-229.	7.9	92
2	Grain boundary diffusion in nanocrystalline Nd-Fe-B permanent magnets with low-melting eutectics. Acta Materialia, 2016, 115, 354-363.	7.9	73
3	Tailoring magnetocaloric effect in all-d-metal Ni-Co-Mn-Ti Heusler alloys: a combined experimental and theoretical study. Acta Materialia, 2020, 201, 425-434.	7.9	65
4	Magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:msub><mml:mi>Fe</mml:mi><mml:m /><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">B</mml:mi></mml:mrow></mml:math>alloys and the effect of doping by<mml:math xmlns:mml="http://www.w3.org/1998/Mat. Physical Review B, 2015, 92, .	3.2	62
5	Twins â€“ A weak link in the magnetic hardening of ThMn12-type permanent magnets. Acta Materialia, 2021, 214, 116968.	7.9	31
6	Consolidation of cobalt nanorods: A new route for rare-earth free nanostructured permanent magnets. Acta Materialia, 2018, 145, 290-297.	7.9	30
7	The influence of magnetocrystalline anisotropy on the magnetocaloric effect: A case study on Co2B. Applied Physics Letters, 2016, 109, .	3.3	27
8	On the synthesis and microstructure analysis of high performance MnBi. AIP Advances, 2016, 6, .	1.3	24
9	Rapid solidification of Nd1+XFe11Ti compounds: Phase formation and magnetic properties. Acta Materialia, 2019, 180, 15-23.	7.9	24
10	Magnetic, magnetocaloric and structural properties of manganese based monoborides doped with iron and cobalt â€“ A candidate for thermomagnetic generators. Acta Materialia, 2016, 113, 213-220.	7.9	23
11	Magnet properties of Mn70Ga30 prepared by cold rolling and magnetic field annealing. Journal of Magnetism and Magnetic Materials, 2015, 382, 265-270.	2.3	22
12	Effect of temperature and compositional changes on the phonon properties of Ni-Mn-Ga shape memory alloys. Physical Review B, 2012, 86, .	3.2	21
13	Anisotropic local hardening in hot-deformed Nd-Fe-B permanent magnets. Acta Materialia, 2018, 147, 176-183.	7.9	20
14	Temperature-dependent first-order reversal curve measurements on unusually hard magnetic low-temperature phase of MnBi. Physical Review B, 2017, 95, .	3.2	19
15	Influence of microstructure on the application of Ni-Mn-In Heusler compounds for multicaloric cooling using magnetic field and uniaxial stress. Acta Materialia, 2021, 217, 117157.	7.9	18
16	Ab initio phase stabilities of Ce-based hard magnetic materials and comparison with experimental phase diagrams. Physical Review Materials, 2019, 3, .	2.4	18
17	The search for room temperature tetragonal phases of Fe-Mn-Ga: A reactive crucible melting approach. Journal of Alloys and Compounds, 2016, 683, 198-204.	5.5	17
18	Properties of magnetically semi-hard (FexCo1â^'x)3B compounds. Journal of Alloys and Compounds, 2017, 696, 543-547.	5.5	17

#	Article	IF	Citations
19	Intrinsically weak magnetic anisotropy of cerium in potential hard-magnetic intermetallics. Npj Quantum Materials, 2021, 6, .	5.2	12
20	Co@CoSb Coreâ€“Shell Nanorods: From Chemical Coating at the Nanoscale to Macroscopic Consolidation. Chemistry of Materials, 2016, 28, 4982-4990.	6.7	11
21	Upscaling the 2â€Powder Method for the Manufacturing of Heavy Rareâ€Earthâ€Lean Sintered didymiumâ€Based Magnets. Advanced Engineering Materials, 2021, 23, 2100459.	3.5	9
22	Vibrational properties of Niâ€“Mnâ€“Ga shape memory alloy in the martensite phases. New Journal of Physics, 2013, 15, 123016.	2.9	8
23	Magnetic and magnetocaloric properties of the Co2-xMn B system by experiment and density functional theory. Acta Materialia, 2019, 165, 270-277.	7.9	8
24	Correlating changes of the unit cell parameters and microstructure with magnetic properties in the CeFe11Ti compound. Journal of Alloys and Compounds, 2021, 867, 158805.	5.5	7
25	Grain boundary segregation, phase formation, and their influence on the coercivity of rapidly solidified SmFe11Ti hard magnetic alloys. Physical Review Materials, 2020, 4, .	2.4	6
26	Influence of the martensitic transformation kinetics on the magnetocaloric effect in Ni-Mn-In. Physical Review Materials, 2020, 4, .	2.4	6
27	Neutron study of magnetic correlations in rare-earth-free Mn-Bi magnets. Physical Review Materials, 2021, 5, .	2.4	3
28	Influence of martensitic configuration on hysteretic properties of Heusler films studied by advanced imaging in magnetic field and temperature. Acta Materialia, 2021, 221, 117356.	7.9	3