Yikun Zhang

List of Publications by Year
in descending order

48	1,984	218677	243625
papers	citations	26 h-index	44 g-index

48	48	48	529
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review of the structural, magnetic and magnetocaloric properties in ternary rare earth RE2T2X type intermetallic compounds. Journal of Alloys and Compounds, 2019, 787, 1173-1186.	5.5	222
2	Magnetic properties and giant cryogenic magnetocaloric effect in B-site ordered antiferromagnetic Gd2MgTiO6 double perovskite oxide. Acta Materialia, 2022, 226, 117669.	7.9	131
3	Magnetic properties and promising magnetocaloric performances in the antiferromagnetic GdFe2Si2 compound. Science China Materials, 2022, 65, 1345-1352.	6.3	116
4	Structure, magnetic properties and cryogenic magneto-caloric effect (MCE) in RE2FeAlO6 (RE = Gd, Dy,) Tj ETQq0 0 0 rgBT /Overlock 10	4.8	105
5	Achievement of giant cryogenic refrigerant capacity in quinary rare-earths based high-entropy amorphous alloy. Journal of Materials Science and Technology, 2022, 102, 66-71.	10.7	95
6	Magnetic properties and magnetocaloric effect in TmZnAl and TmAgAl compounds. Journal of Alloys and Compounds, 2016, 656, 635-639.	5.5	80
7	Giant low field magnetocaloric effect and field-induced metamagnetic transition in TmZn. Applied Physics Letters, 2015, 107, .	3.3	76
8	Magnetocaloric effect and refrigeration performance in RE60Co20Ni20 (REÂ=ÂHo and Er) amorphous ribbons. Journal of Magnetism and Magnetic Materials, 2020, 498, 166179.	2.3	72
9	Excellent magnetocaloric properties in RE2Cu2Cd (REâ€‰=â€‰Dy and Tm) compounds and its composite materials. Scientific Reports, 2016, 6, 34192.	3.3	65
10	Magnetic and magnetocaloric properties of the ternary cadmium based intermetallic compounds of Gd2Cu2Cd and Er2Cu2Cd. Journal of Alloys and Compounds, 2017, 692, 665-669.	5.5	63
11	First- and second-order phase transitions in RE6Co2Ga (RE = Ho, Dy or Gd) cryogenic magnetocaloric materials. Science China Materials, 2021, 64, 2846-2857.	6.3	62
12	Magnetic properties and magnetocaloric effect in ternary REAgAl (RE= Er and Ho) intermetallic compounds. Journal of Alloys and Compounds, 2015, 619, 12-15.	5.5	61
13	Structure and cryogenic magnetic properties in Ho2BaCuO5 cuprate. Ceramics International, 2018, 44, 1991-1994.	4.8	58
14	Low field induced large magnetic entropy change in the amorphousized Tm60Co20Ni20 ribbon. Journal of Alloys and Compounds, 2018, 733, 40-44.	5.5	57
15	Magnetic properties and magneto-caloric performances in RECo2B2C (REÂ= Gd, Tb and Dy) compounds. Journal of Alloys and Compounds, 2020, 817, 152780.	5.5	50
16	Large reversible magnetocaloric effect in RE₂Cu₂In (REâ€‰â€‰=â€‰â€‰Er and Tm) and enhanced refrigerant capacity in its composite materials. Journal Physics D: Applied Physics, 2016, 49, 145002.	2.8	48
17	Study of the magnetic phase transitions and magnetocaloric effect in Dy2Cu2In compound. Journal of Alloys and Compounds, 2016, 667, 130-133.	5.5	46
18	Metamagnetic transition and magnetocaloric properties in antiferromagnetic Ho 2 Ni 2 Ga and Tm 2 Ni 2 Ga compounds. Intermetallics, 2018, 94, 17-21.	3.9	46

#	Article	IF	Citations
19	Excellent cryogenic magnetocaloric properties in heavy rare-earth based HRENiGa2 (HRE = Dy, Ho, or) Tj ETQq1 1 0.784314 rgBT /Ove	6.8	43
20	Magnetic properties and promising cryogenic magneto-caloric performances of Gd₂₀Ho₂₀Tm₂₀Cu₂₀Ni₂₀ amorphous ribbons*. Chinese Physics B, 2021, 30, 017501.	1.4	40
21	Crystal structure, magnetic properties, and magnetocaloric effect in B-site disordered RE2CrMnO6 (RE) Tj ETQq1 1 0.784314 rgBT /O	4.8	39
22	Microstructure and cryogenic magnetic properties in amorphousized RE57Cu25Al18 (REÂ= Ho and Tm) ribbons. Journal of Alloys and Compounds, 2019, 770, 849-853.	5.5	38
23	Excellent magnetocaloric performance in the carbide compounds RE2Cr2C3 (RE = Er, Ho, and Dy) and their composites. Materials Today Physics, 2022, 27, 100786.	6.0	35
24	Cryogenic magnetic properties and magnetocaloric effects (MCE) in B-site disordered RE2CuMnO6 (RE) Tj ETQq0 0 0 rgBT /Overlock 10	4.8	31
25	Magnetic phase transitions and large magnetic entropy change with a wide temperature span in HoZn. Journal of Alloys and Compounds, 2015, 643, 147-151.	5.5	30
26	Structure, glass-forming ability, magnetic and cryogenic magneto-caloric properties in the amorphous Ni30Co10RE60 (REâ€‰=â€‰Ho and Tm) ribbons. Journal of Materials Science, 2018, 53, 9816-9822.	3.7	27
27	Magnetism and magnetocaloric effect in the RE2CuSi3 (REÂ= Dy andÂHo) compounds. Journal of Alloys and Compounds, 2017, 702, 546-550.	5.5	24
28	Effect of Fe substitution on magnetocaloric effect in metamagnetic boron-carbide ErNi2â^'xFexB2C compounds. Journal of Alloys and Compounds, 2014, 610, 540-543.	5.5	22
29	Magnetic properties and magnetocaloric effect in the aluminide RE NiAl 2 (RE Â=ÂHo and Er) compounds. Intermetallics, 2017, 88, 61-64.	3.9	21
30	Cryogenic magnetic properties and magnetocaloric performance in double perovskite Pr2NiMnO6 and Pr2CoMnO6 compounds. Ceramics International, 2018, 44, 20762-20767.	4.8	21
31	Magnetic Phase Transition and Magnetocaloric Effect in Ternary Er₂Ni₂Ga Compound. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	19
32	Reversible Table-Like Magnetocaloric Effect in EuAuGe Compound. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2159-2163.	1.8	18
33	Structural, magnetic and magnetocaloric properties in RE2Ni1.5Ga2.5 (REÂ= Dy, Ho, Er and Tm) compounds. Journal of Alloys and Compounds, 2020, 830, 154666.	5.5	16
34	Structure, magnetic and cryogenic magneto-caloric properties in intermetallic gallium compounds RE2Co2Ga (RE = Dy, Ho, Er, and Tm). Journal of Applied Physics, 2018, 124, 043903.	2.5	14
35	Observation of large magnetocaloric effect in ternary Er-based Er4CoCd compound. Journal of Magnetism and Magnetic Materials, 2019, 489, 165462.	2.3	13
36	Structural and magnetocaloric properties in the aeschynite type GdCrWO6 and ErCrWO6 oxides. Ceramics International, 2021, 47, 29197-29204.	4.8	13

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37	Magnetic properties, magnetocaloric effect and refrigeration performance in RE60Al20Ni20 (REâ€‰=â€‰Tm, Er and Ho) amorphous ribbons. Journal of Applied Physics, 2020, 127, .	2.5	12
38	Cryogenic magnetic properties in the pyrochlore RE2TiMnO7 (RE = Dy and Ho) compounds. Ceramics International, 2018, 44, 15681-15685.	4.8	10
39	Giant refrigerant capacity in equi-atomic HoErGdCuNi amorphous ribbons. Journal of Alloys and Compounds, 2019, 792, 180-184.	5.5	8
40	Cryogenic magnetic properties of Er60Ni30Co10 amorphous ribbon. Journal of Non-Crystalline Solids, 2018, 484, 36-39.	3.1	7
41	Magnetic properties, martensitic transformations and magnetocaloric performances in Ni44Mn45-xFexSn11 (x = 0â€“3) Heusler alloys. Materials Chemistry and Physics, 2021, 273, 125150.	4.0	7
42	Table-like shape magnetocaloric effect and large refrigerant capacity in dual-phase HoNi/HoNi₂ composite*. Chinese Physics B, 2020, 29, 107502.	1.4	7
43	Glass forming ability, magnetic properties and cryogenic magnetocaloric effects in RE60Co20Al20 (REÂ=ÂHo, Er, Tm) amorphous ribbons. Journal of Alloys and Compounds, 2022, 895, 162633.	5.5	5
44	Magnetocaloric Properties in TbNi2 B 2C Compound. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2681-2684.	1.8	4
45	Structural, magnetic properties and magneto-caloric performances in the antiferromagnetic RECoSi2 (REÂ= Er and Tm) compounds. Journal of Alloys and Compounds, 2020, 843, 156016.	5.5	4
46	Structural, magnetic and magnetocaloric properties of the rare earth (RE) molybdate RE2MoO6 (RE =) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.8	2
47	Continuous Transformations of the Nucleation Mechanism in the Undercooled State. Crystal Growth and Design, 2018, 18, 2905-2911.	3.0	1
48	Magnetic properties and magnetic entropy change in rare earth-rich aluminium compounds of RE 2 CuAl 3 (RE = Dy and Tm). Intermetallics, 2018, 97, 8-11.	3.9	0