

Jing-Min Wang

List of Publications by Year in descending order

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56
papers

1,094
citations

430874

18
h-index

434195

31
g-index

56
all docs

56
docs citations

56
times ranked

1093
citing authors

#	ARTICLE	IF	CITATIONS
1	A piezoelectric, strain-controlled antiferromagnetic memory insensitive to magnetic fields. <i>Nature Nanotechnology</i> , 2019, 14, 131-136.	31.5	150
2	Giant heterogeneous magnetostriction in Fe ²⁺ Ga alloys: Effect of trace element doping. <i>Acta Materialia</i> , 2016, 109, 177-186.	7.9	112
3	Giant magnetoelectric coupling and E-field tunability in a laminated Ni ₂ MnGa/lead-magnesium-niobate-lead titanate multiferroic heterostructure. <i>Applied Physics Letters</i> , 2008, 93, 112502.	3.3	73
4	Large room-temperature elastocaloric effect of Ni ₅₇ Mn ₁₈ Ga ₂₁ In ₄ alloy undergoing a magnetostructural coupling transition. <i>Scripta Materialia</i> , 2017, 130, 148-151.	5.2	51
5	Search for transformation from paramagnetic martensite to ferromagnetic austenite: NiMnGaCu alloys. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	48
6	A single-phase wide-hysteresis shape memory alloy Ni ₅₀ Mn ₂₅ Ga ₁₇ Cu ₈ . <i>Scripta Materialia</i> , 2010, 62, 298-300.	5.2	38
7	Stabilization of β_2 -phase in carbon-doped MnAl magnetic alloys. <i>Journal of Alloys and Compounds</i> , 2018, 755, 257-264.	5.5	36
8	Temperature dependence of the giant magnetostrain in a NiMnGa magnetic shape memory alloy. <i>Applied Physics Letters</i> , 2005, 86, 252508.	3.3	34
9	Study of Ni ²⁺ Mn ²⁺ Ga ²⁺ Cu as single-phase wide-hysteresis shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6907-6911.	5.6	34
10	Microstructure and magnetic properties of melt spinning Ni ²⁺ Mn ²⁺ Ga. <i>Intermetallics</i> , 2013, 32, 151-155.	3.9	33
11	Microstructure and the correlated martensitic transformation of melt spinning Ni ₅₀ Mn ₂₉ Ga ₂₁ xTbx (x=0-1) ribbons. <i>Acta Materialia</i> , 2016, 104, 91-100.	7.9	31
12	A highly plastic Ni ₅₀ Mn ₂₅ Cu ₁₈ Ga ₇ high-temperature shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 1975-1978.	5.6	26
13	Antiferromagnetism in Ni ²⁺ -Based Superconductors. <i>Advanced Materials</i> , 2022, 34, e2106117.	21.0	26
14	Spontaneous Topological Magnetic Transitions in NdCo ₅ Rare-Earth Magnets. <i>Advanced Materials</i> , 2021, 33, e2103751.	21.0	23
15	Influence of annealing temperatures on the magnetostructural transition and magnetocaloric effect of Ni ₄₀ Co ₁₀ Mn ₄₀ Sn ₁₀ powders. <i>Journal of Alloys and Compounds</i> , 2017, 691, 215-219.	5.5	22
16	Relation between solidification microstructure and coercivity in MnAl permanent-magnet alloys. <i>Intermetallics</i> , 2018, 96, 41-48.	3.9	22
17	Anisotropic single-variant of (Mn ₅₄ Al ₄₆) ₉₇ C ₃ . <i>Scripta Materialia</i> , 2018, 143, 72-76.	5.2	21
18	Improved magnetostriction and mechanical properties in dual-phase FeGa single crystal. <i>Materials Research Letters</i> , 2018, 6, 327-332.	8.7	21

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19	Anomalous magnetizations in melt spinning Ni-Mn-Ga. Journal of Applied Physics, 2009, 106, 023923.	2.5	20
20	Tailoring the magnetostructural transition and magnetocaloric properties around room temperature: In-doped Ni-Mn-Ga alloys. Applied Physics Letters, 2014, 105, .	3.3	18
21	Phase transition and magnetocaloric effect of Ni ₅₀ Mn ₂₉ Ga ₂₁ ~Tb (0 ≤ x ≤ 1) alloys. Journal of Alloys and Compounds, 2015, 632, 681-685.	5.5	16
22	Realization of large coercivity in MnAl permanent-magnet alloys by introducing nanoprecipitates. Journal of Magnetism and Magnetic Materials, 2019, 483, 164-168.	2.3	16
23	Nonvolatile Electric Control of the Anomalous Hall Effect in an Ultrathin Magnetic Metal. Advanced Electronic Materials, 2020, 6, 1901084.	5.1	15
24	Magnetic field-induced reverse martensitic transformation in NiMnGaCu alloy. Journal Physics D: Applied Physics, 2011, 44, 285002.	2.8	14
25	Multiscale influence of trace Tb addition on the magnetostriction and ductility of 100-oriented directionally solidified Fe-Ga crystals. Physical Review Materials, 2019, 3, .	2.4	14
26	Phase stability and magnetic properties of Ni ₅₀ ~xCuMn ₃₁ Ga ₁₉ alloys. Intermetallics, 2013, 34, 14-17.	3.9	13
27	Grain size effect on the martensitic transformation of Ni ₅₀ Mn ₂₅ Ga ₁₇ Cu ₈ high-temperature shape memory alloy. Intermetallics, 2015, 61, 42-46.	3.9	13
28	Martensitic transformation, shape memory effect and mechanical properties of dual-phase Ni ₅₀ ~xTbMn ₃₀ Ga ₂₀ (x=0~1) alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 646, 288-293.	5.6	12
29	Large reversible magnetostrain of a Ni ₃₀ Cu ₈ Co ₁₂ Mn ₃₇ Ga ₁₃ single crystal. Scripta Materialia, 2016, 124, 142-145.	5.2	12
30	Effect of coherent nanoprecipitates on martensitic transformation in Tb-doped NiMnGa melt-spun ribbons. Intermetallics, 2018, 97, 42-51.	3.9	12
31	Evolution of Intrinsic Magnetic Properties in L1₀ MnAl Alloys Doped with Substitutional Atoms and Correlated Mechanism: Experimental and Theoretical Studies. Physical Review Applied, 2019, 11, .	3.8	12
32	Microstructure and mechanical properties of a Ni ₃₀ Cu ₂₀ Mn _{41.5} Ga _{8.5} dual-phase shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 578, 256-259.	5.6	11
33	Internal friction associated with the premartensitic transformation and twin boundary motion of Ni _{50+x} Mn ₂₅ ~xGa ₂₅ (x=0~2) alloys. Journal of Applied Physics, 2013, 113, 103502.	2.5	8
34	Phase transition and mechanical properties of Ni ₃₀ Cu ₂₀ Mn _{37+x} Ga ₁₃ ~x (x=0~4.5) alloys. Rare Metals, 2014, 33, 547-551.	7.1	8
35	Uniaxial magnetocrystalline anisotropy of tetragonal Mn Ga ₁₀₀ ~ (50 ≤ x ≤ 75) alloys. Journal of Magnetism and Magnetic Materials, 2019, 489, 165308.	2.3	8
36	On the μ~ phase transformation and twinning in L1 ₀ ~MnAl alloys. Acta Materialia, 2022, 232, 117892.	7.9	8

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37	Effect of directional solidification rate on the solidified morphologies and phase transformations of Ni _{50.5} Mn ₂₅ Ga _{24.5} alloy. <i>Journal of Alloys and Compounds</i> , 2012, 541, 477-482.	5.5	7
38	Magneto-structural transition and magnetocaloric effect of Ni _{50-x} Tb _x Mn ₃₀ Ga ₂₀ ($x \in [0, 1]$) alloys. <i>Intermetallics</i> , 2017, 89, 100-104.	3.9	7
39	Tailoring ferroic domains by introducing internal stress: Fe ₈₁ Ga ₁₉ magnetostrictive alloy as an example. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	7
40	Temperature stability of SmCo (2:17) magnets modified by Ni-Cr two-layer coating. <i>Rare Metals</i> , 2019, 38, 238-244.	7.1	6
41	Morphology evolution and enhanced magnetostriction of (Fe _{0.81} Ga _{0.19}) _{99.9} Tb _{0.1} crystals prepared by liquid metal cooling Bridgman directional solidification. <i>Journal of Alloys and Compounds</i> , 2021, 856, 158166.	5.5	6
42	Magneto-structural transition and magnetocaloric effect of melt spinning Ni ₅₀ Mn ₂₉ Ga _{21-x} Tb _x ($x \in [0, 1]$) ribbons. <i>Intermetallics</i> , 2016, 69, 118-122.	3.9	4
43	Shape memory effect of dual-phase NiMnGaTb ferromagnetic shape memory alloys. <i>Journal of Iron and Steel Research International</i> , 2019, 26, 321-328.	2.8	4
44	A linear elastic Ni ₅₀ Mn ₂₅ Ga ₉ Cu ₁₆ martensitic alloy. <i>Rare Metals</i> , 2013, 32, 29-32.	7.1	3
45	Influence of cooling rate on magneto-structural transition and magnetocaloric effect of Ni ₃₀ Cu ₈ Co ₁₂ Mn ₃₇ Ga ₁₃ alloy. <i>Journal of Iron and Steel Research International</i> , 2017, 24, 711-717.	2.8	3
46	Microstructure and magnetic properties of (Mn ₅₄ Al ₄₆) ₉₈ C ₂ magnets fabricated by liquid-phase sintering with the Mn ₆₅ Ga ₃₅ as an additive. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 534, 168037.	2.3	3
47	Correlation between solid-state transformations and solidification in Ni-Mn-Ga alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 3549-3553.	2.2	2
48	Magnetostructural coupling near room temperature in Ni _{46-x} Fe _x Cu ₄ Mn ₃₄ Ga ₁₆ alloys. <i>Applied Physics Letters</i> , 2013, 102, 012405.	3.3	2
49	Phase transition of Ni _{55-x} Co _x Mn ₂₀ Ga ₂₅ (8.5 ≤ x ≤ 11.0) alloys with different compositions and magnetic fields. <i>Rare Metals</i> , 2023, 42, 572-578.	7.1	2
50	Hot corrosion of surface-modified Sm ₂ Co ₁₇ high-temperature magnet with Ni and Ni/Cr bilayer coatings in 75 wt% Na ₂ SO ₄ -NaCl mixture. <i>Rare Metals</i> , 2021, 40, 2494-2500.	7.1	2
51	Magnetocrystalline anisotropy regulations in bulk L1 ₀ -MnGa alloys by tailoring the tetragonal lattice parameter c: Selectively alloying Al and C atoms. <i>Journal of Alloys and Compounds</i> , 2021, 881, 160646.	5.5	2
52	Magnetostrain and magnetization of the Ni-Mn-Ga single crystal. , 2005, , .		1
53	Internal friction behavior of Ni _{50.5} Mn ₂₅ Ga _{24.5} alloy with cellular microstructure. <i>Rare Metals</i> , 2018, , 1.	7.1	1
54	Microstructure, orientation and magnetostrictive properties of Fe ₈₁ Ga ₁₉ polycrystal grown with Bridgman method. <i>Rare Metals</i> , 2023, 42, 4184-4188.	7.1	1

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55	Pseudoelasticity and elastocaloric effect of Fe _{75.5} Ga _{24.5} single crystal. <i>Rare Metals</i> , 2017, , 1.	7.1	0
56	Microstructure and phase transformation of Ni ₅₆ Fe _x Ga _{44-x} (15 ≤ x ≤ 20) alloys. <i>Rare Metals</i> , 2019, 1.		