

# Jing-Min Wang

## List of Publications by Year in descending order

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56

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430874

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#	ARTICLE	IF	CITATIONS
1	Phase transition of Ni <sub>55-x</sub> CoxMn <sub>20</sub> Ga <sub>25</sub> (8.5≤x≤11.0) alloys with different compositions and magnetic fields. <i>Rare Metals</i> , 2023, 42, 572-578.	7.1	2
2	Microstructure, orientation and magnetostrictive properties of Fe <sub>81</sub> Ga <sub>19</sub> polycrystal grown with Bridgman method. <i>Rare Metals</i> , 2023, 42, 4184-4188.	7.1	1
3	Antiferromagnetism in Ni-based Superconductors. <i>Advanced Materials</i> , 2022, 34, e2106117.	21.0	26
4	On the $\mu\text{Al}_1$ phase transformation and twinning in L1 <sub>0</sub> MnAl alloys. <i>Acta Materialia</i> , 2022, 232, 117892.	7.9	8
5	Morphology evolution and enhanced magnetostriction of (Fe <sub>0.81</sub> Ga <sub>0.19</sub> ) <sub>99.9</sub> Tb <sub>0.1</sub> crystals prepared by liquid metal cooling Bridgman directional solidification. <i>Journal of Alloys and Compounds</i> , 2021, 856, 158166.	5.5	6
6	Hot corrosion of surface-modified Sm <sub>2</sub> Co <sub>17</sub> high-temperature magnet with Ni and Ni/Cr bilayer coatings in 75wt% Na <sub>2</sub> SO <sub>4</sub> -NaCl mixture. <i>Rare Metals</i> , 2021, 40, 2494-2500.	7.1	2
7	Spontaneous Topological Magnetic Transitions in NdCo <sub>5</sub> . <i>Rare Earth Magnets. Advanced Materials</i> , 2021, 33, e2103751.	21.0	23
8	Microstructure and magnetic properties of (Mn <sub>54</sub> Al <sub>46</sub> ) <sub>98</sub> C <sub>2</sub> magnets fabricated by liquid-phase sintering with the Mn <sub>65</sub> Ga <sub>35</sub> as an additive. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 534, 168037.	2.3	3
9	Magnetocrystalline anisotropy regulations in bulk L1 <sub>0</sub> -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
10	Nonvolatile Electric Control of the Anomalous Hall Effect in an Ultrathin Magnetic Metal. <i>Advanced Electronic Materials</i> , 2020, 6, 1901084.	5.1	15
11	Evolution of Intrinsic Magnetic Properties in L1 <sub>0</sub> Mn <sub>x</sub> Al <sub>1-x</sub> Alloys Doped with Substitutional Atoms and Correlated Mechanism: Experimental and Theoretical Studies. <i>Physical Review Applied</i> , 2019, 11, .	3.8	12
12	Microstructure and phase transformation of Ni <sub>56</sub> FexGa <sub>44-x</sub> (15≤x≤20) alloys. <i>Rare Metals</i> , 2019, 38, 1.		
13	Uniaxial magnetocrystalline anisotropy of tetragonal Mn Ga <sub>100-x</sub> (50≤x≤75) alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 489, 165308.	2.3	8
14	Realization of large coercivity in MnAl permanent-magnet alloys by introducing nanoprecipitates. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 483, 164-168.	2.3	16
15	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
16	A piezoelectric, strain-controlled antiferromagnetic memory insensitive to magnetic fields. <i>Nature Nanotechnology</i> , 2019, 14, 131-136.	31.5	150
17	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
18	Multiscale influence of trace Tb addition on the magnetostriction and ductility of oriented directionally solidified Fe-Ga crystals. <i>Physical Review Materials</i> , 2019, 3, .		

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19	Relation between solidification microstructure and coercivity in MnAl permanent-magnet alloys. <i>Intermetallics</i> , 2018, 96, 41-48.	3.9	22
20	Stabilization of $\tilde{\gamma}$ -phase in carbon-doped MnAl magnetic alloys. <i>Journal of Alloys and Compounds</i> , 2018, 755, 257-264.	5.5	36
21	Effect of coherent nanoprecipitates on martensitic transformation in Tb-doped NiMnGa melt-spun ribbons. <i>Intermetallics</i> , 2018, 97, 42-51.	3.9	12
22	Anisotropic single-variant of (Mn54Al46)97C3. <i>Scripta Materialia</i> , 2018, 143, 72-76.	5.2	21
23	Internal friction behavior of Ni50.5Mn25Ga24.5 alloy with cellular microstructure. <i>Rare Metals</i> , 2018, , 1.	7.1	1
24	Tailoring ferroic domains by introducing internal stress: Fe81Ga19 magnetostrictive alloy as an example. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	7
25	Improved magnetostriction and mechanical properties in dual-phase FeGa single crystal. <i>Materials Research Letters</i> , 2018, 6, 327-332.	8.7	21
26	Magneto-structural transition and magnetocaloric effect of Ni 50-x Tb x Mn 30 Ga 20 ( $x \approx 1$ ) alloys. <i>Intermetallics</i> , 2017, 89, 100-104.	3.9	7
27	Large room-temperature elastocaloric effect of Ni57Mn18Ga21In4 alloy undergoing a magnetostructural coupling transition. <i>Scripta Materialia</i> , 2017, 130, 148-151.	5.2	51
28	Influence of cooling rate on magneto-structural transition and magnetocaloric effect of Ni30Cu8Co12Mn37Ga13 alloy. <i>Journal of Iron and Steel Research International</i> , 2017, 24, 711-717.	2.8	3
29	Pseudoelasticity and elastocaloric effect of Fe75.5Ga24.5 single crystal. <i>Rare Metals</i> , 2017, , 1.	7.1	0
30	Influence of annealing temperatures on the magnetostructural transition and magnetocaloric effect of Ni40Co10Mn40Sn10 powders. <i>Journal of Alloys and Compounds</i> , 2017, 691, 215-219.	5.5	22
31	Large reversible magnetostrain of a Ni30Cu8Co12Mn37Ga13 single crystal. <i>Scripta Materialia</i> , 2016, 124, 142-145.	5.2	12
32	Microstructure and the correlated martensitic transformation of melt spinning Ni50Mn29Ga21 $\approx$ Tbx ( $x \approx 1$ ) ribbons. <i>Acta Materialia</i> , 2016, 104, 91-100.	7.9	31
33	Giant heterogeneous magnetostriction in Fe-Ga alloys: Effect of trace element doping. <i>Acta Materialia</i> , 2016, 109, 177-186.	7.9	112
34	Magneto-structural transition and magnetocaloric effect of melt spinning Ni50Mn29Ga21 $\approx$ Tbx ( $x \approx 1$ ) ribbons. <i>Intermetallics</i> , 2016, 69, 118-122.	3.9	4
35	Phase transition and magnetocaloric effect of Ni50Mn29Ga21 $\approx$ Tb ( $0 \leq x \leq 1$ ) alloys. <i>Journal of Alloys and Compounds</i> , 2015, 632, 681-685.	5.5	16
36	Grain size effect on the martensitic transformation of Ni50Mn25Ga17Cu8 high-temperature shape memory alloy. <i>Intermetallics</i> , 2015, 61, 42-46.	3.9	13

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37	Martensitic transformation, shape memory effect and mechanical properties of dual-phase Ni <sub>50-x</sub> TbxMn <sub>30</sub> Ga <sub>20</sub> (x=0~1) alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 646, 288-293.	5.6	12
38	Tailoring the magnetostructural transition and magnetocaloric properties around room temperature: In-doped Ni-Mn-Ga alloys. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	18
39	Phase transition and mechanical properties of Ni <sub>30</sub> Cu <sub>20</sub> Mn <sub>37+x</sub> Ga <sub>13-x</sub> (x=0~4.5) alloys. <i>Rare Metals</i> , 2014, 33, 547-551.	7.1	8
40	A linear elastic Ni <sub>50</sub> Mn <sub>25</sub> Ga <sub>9</sub> Cu <sub>16</sub> martensitic alloy. <i>Rare Metals</i> , 2013, 32, 29-32.	7.1	3
41	Microstructure and magnetic properties of melt spinning Ni-Mn-Ga. <i>Intermetallics</i> , 2013, 32, 151-155.	3.9	33
42	Internal friction associated with the premartensitic transformation and twin boundary motion of Ni <sub>50+x</sub> Mn <sub>25-x</sub> Ga <sub>25</sub> (x=0~2) alloys. <i>Journal of Applied Physics</i> , 2013, 113, 103502.	2.5	8
43	Microstructure and mechanical properties of a Ni <sub>30</sub> Cu <sub>20</sub> Mn <sub>41.5</sub> Ga <sub>8.5</sub> dual-phase shape memory alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 578, 256-259.	5.6	11
44	Phase stability and magnetic properties of Ni <sub>50-x</sub> Cu <sub>x</sub> Mn <sub>31</sub> Ga <sub>19</sub> alloys. <i>Intermetallics</i> , 2013, 34, 14-17.	3.9	13
45	Magnetostructural coupling near room temperature in Ni <sub>46-x</sub> FexCu <sub>4</sub> Mn <sub>34</sub> Ga <sub>16</sub> alloys. <i>Applied Physics Letters</i> , 2013, 102, 012405.	3.3	2
46	Effect of directional solidification rate on the solidified morphologies and phase transformations of Ni <sub>50.5</sub> Mn <sub>25</sub> Ga <sub>24.5</sub> alloy. <i>Journal of Alloys and Compounds</i> , 2012, 541, 477-482.	5.5	7
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	Study of Ni-Mn-Ga-Cu as single-phase wide-hysteresis shape memory alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6907-6911.	5.6	34
49	Magnetic field-induced reverse martensitic transformation in NiMnGaCu alloy. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 285002.	2.8	14
50	A single-phase wide-hysteresis shape memory alloy Ni <sub>50</sub> Mn <sub>25</sub> Ga <sub>17</sub> Cu <sub>8</sub> . <i>Scripta Materialia</i> , 2010, 62, 298-300.	5.2	38
51	A highly plastic Ni <sub>50</sub> Mn <sub>25</sub> Cu <sub>18</sub> Ga <sub>7</sub> high-temperature shape memory alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 1975-1978.	5.6	26
52	Search for transformation from paramagnetic martensite to ferromagnetic austenite: NiMnGaCu alloys. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	48
53	Anomalous magnetizations in melt spinning Ni-Mn-Ga. <i>Journal of Applied Physics</i> , 2009, 106, 023923.	2.5	20
54	Giant magnetoelectric coupling and E-field tunability in a laminated Ni <sub>2</sub> MnGa/lead-magnesium-niobate-lead titanate multiferroic heterostructure. <i>Applied Physics Letters</i> , 2008, 93, 112502.	3.3	73

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| 55 | Magnetostrain and magnetization of the Ni-Mn-Ga single crystal. , 2005, , .   | 1   |
| 56 | Temperature dependence of the giant magnetostrain in a NiMnGa magnetic shape memory alloy. Applied Physics Letters, 2005, 86, 252508. | 3.3 |