Mingfang Qian

List of Publications by Year
in descending order

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56	916	361045	500791
papers	citations	20	28
		h-index	g-index

56	56	56	621
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimization of microstructure and magnetocaloric effect by heat treatment process in LaFe11.7Si1.3 microwire. Journal of Alloys and Compounds, 2022, 890, 161845.	2.8	6
2	Ultra-high strength GNP/2024Al composite via thermomechanical treatment. Journal of Materials Science and Technology, 2022, 108, 164-172.	5.6	19
3	Properties of Magnetic Shape Memory Alloy Microwires. , 2022, , 165-227.		0
4	Preparation and Properties of Bulk Magnetic Shape Memory Alloys. , 2022, , 35-69.		0
5	Preparation and Heat Treatment of Magnetic Shape Memory Alloy Microwires. , 2022, , 101-163.		0
6	Preparation and Properties of Magnetic Shape Memory Alloy Particles. , 2022, , 229-254.		0
7	Preparation and Properties of Magnetic Shape Memory Alloy Foams. , 2022, , 71-99.		0
8	An Overview on Magnetic Shape Memory Alloys. , 2022, , 1-33.		1
9	Enhanced stress concentration sensitivity of SiCp/Al composite with network architecture. Journal of Composite Materials, 2022, 56, 1165-1174.	1.2	6
10	Enhanced elastocaloric stability in NiTi alloys under shear stress. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 838, 142787.	2.6	11
11	Elastocaloric effect in bamboo-grained Cu71.1Al17.2Mn11.7 microwires. Journal of Alloys and Compounds, 2021, 850, 156612.	2.8	27
12	Enhanced working stability of elastocaloric effects in polycrystalline Ni-Fe-Ga dual phase alloy. Intermetallics, 2021, 136, 107255.	1.8	11
13	Numerical analysis of an active magnetic regenerator with parallel wire geometry based on a 1D AMR model. International Journal of Refrigeration, 2021, 129, 250-258.	1.8	6
14	Martensite transformation behavior and magnetocaloric effect in annealed Ni-Co-Mn-Sn microwires. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 274, 115477.	1.7	1
15	Increasing working temperature span in Ni-Mn-Sn-Co alloys via introducing pores. Journal of Magnetism and Magnetic Materials, 2020, 500, 166359.	1.0	6
16	Enhancing the Elastocaloric Cooling Stability of Niï£¿Feï£¿Ga Alloys via Introducing Pores. Advanced Engineering Materials, 2020, 22, 1901140.	1.6	20
17	Enhanced cyclic stability of elastocaloric effect in oligocrystalline Cuâ€“Alâ€“Mn microwires via cold-drawing. International Journal of Refrigeration, 2020, 114, 54-61.	1.8	24
18	Grain structure related inhomogeneous elastocaloric effects in Cuâ€“Alâ€“Mn shape memory microwires. Scripta Materialia, 2020, 178, 356-360.	2.6	22

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19	Magnetocaloric effect in Niâ€“Feâ€“Mnâ€“Sn microwires with nano-sized Î³ precipitates. Applied Physics Letters, 2020, 116, .	1.5	8
20	Fracture behaviour of SiCp/Al composites with network architecture. Materialia, 2020, 12, 100725.	1.3	8
21	Microstructure and mechanical properties of ABOw and nickel-coated MWCNTs reinforced 2024Al hybrid composite fabricated by squeeze casting. Materials Chemistry and Physics, 2019, 226, 344-349.	2.0	19
22	Investigating the microstructure and magnetic properties of La-Fe-Si microwires during fabrication and heat treatment process. Journal of Alloys and Compounds, 2019, 794, 153-162.	2.8	3
23	Elastocaloric effects related to B2â†”R and B2â†”B19â€² martensite transformations in nanocrystalline Ni50.5Ti49.5 microwires. Journal of Alloys and Compounds, 2019, 792, 780-788.	2.8	22
24	Elastocaloric effect with small hysteresis in bamboo-grained Cuâ€“Alâ€“Mn microwires. Journal of Materials Science, 2019, 54, 9613-9621.	1.7	24
25	Effect of reinforcement shape on fracture behaviour of SiC/Al composites with network architecture. Composite Structures, 2019, 215, 411-420.	3.1	48
26	Effect of partial metamagnetic and magnetic transition coupling on the magnetocaloric effect of Ni-Mn-Sn-Fe alloy. Intermetallics, 2019, 105, 124-129.	1.8	15
27	Compressive deformation of polycrystalline Ni-Mn-Ga alloys near chemical ordering transition temperature. Materials and Design, 2018, 142, 329-339.	3.3	8
28	Effect of Si doping on microstructure and martensite transformation in Ni-Mn-Sb ferromagnetic shape memory alloys. Intermetallics, 2018, 97, 1-7.	1.8	19
29	Enhanced magnetic refrigeration capacity in Ni-Mn-Ga micro-particles. Materials and Design, 2018, 148, 115-123.	3.3	32
30	Elastocaloric effects in ultra-fine grained NiTi microwires processed by cold-drawing. APL Materials, 2018, 6, .	2.2	26
31	Tunable Magnetocaloric Effect in Ni-Mn-Ga Microwires. Scientific Reports, 2018, 8, 16574.	1.6	22
32	Reversible elastocaloric effects with small hysteresis in nanocrystalline Ni-Ti microwires. AIP Advances, 2018, 8, .	0.6	13
33	Effect of Co-Doping on the Microstructure, Martensitic Transformation Behavior, and Magnetocaloric Effect of Ni-Mn-Sb-Si Ferromagnetic Shape Memory Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 6416-6425.	1.1	1
34	Enhanced magnetocaloric effect in Ni-Mn-Sn-Co alloys with two successive magnetostructural transformations. Scientific Reports, 2018, 8, 8235.	1.6	64
35	Nano-Ti5Si3 leading to enhancement of oxidation resistance. Corrosion Science, 2018, 140, 223-230.	3.0	33
36	Dataset on the microstructure Ni50Mn38Sb9Si3 alloy and compositions of Ni50Mn38Sb12âˆ’Si (x=2.5, 3) ferromagnetic shape memory alloys. Data in Brief, 2018, 19, 222-225.	0.5	0

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37	Dataset on enhanced magnetic refrigeration capacity in Niâ€“Mnâ€“Ga micro-particles. Data in Brief, 2018, 19, 444-448.	0.5	2
38	Enhanced magnetocaloric effects of Ni-Fe-Mn-Sn alloys involving strong metamagnetic behavior. Journal of Alloys and Compounds, 2017, 715, 206-213.	2.8	28
39	Magnetocaloric effect with low magnetic hysteresis loss in ferromagnetic Ni-Mn-Sb-Si alloys. Journal of Magnetism and Magnetic Materials, 2017, 428, 464-468.	1.0	34
40	Magnetocaloric effect of Ni-Fe-Mn-Sn microwires prepared by melt-extraction technique. Materials and Design, 2017, 114, 1-9.	3.3	45
41	Magnetostructural coupling and magnetocaloric effect in Ni-Mn-Ga-Cu microwires. Applied Physics Letters, 2016, 108, .	1.5	30
42	Introducing equiaxed grains and texture into Ni-Mn-Ga alloys by hot extrusion for superplasticity. Materials and Design, 2016, 112, 339-344.	3.3	17
43	Martensite transformation and magnetic properties of Fe-doped Ni-Mn-Sn alloys with dual phases. Journal of Alloys and Compounds, 2016, 689, 481-488.	2.8	25
44	Giant room-temperature inverse and conventional magnetocaloric effects in Niâ€“Mnâ€“In alloys. Materials Letters, 2016, 163, 274-276.	1.3	14
45	Microstructural evolution of Niâ€“Mnâ€“Ga microwires during the melt-extraction process. Journal of Alloys and Compounds, 2016, 660, 244-251.	2.8	25
46	Enhanced magnetic entropy change and working temperature interval in Niâ€“Mnâ€“Inâ€“Co alloys. Journal of Alloys and Compounds, 2016, 656, 154-158.	2.8	24
47	Structural, Magnetic and Mechanical Properties of Oligocrystalline Ni-Mn-Ga Shape Memory Microwires. Materials Today: Proceedings, 2015, 2, S577-S581.	0.9	11
48	Microstructure and Texture after Deformation-induced Grain growth in Polycrystalline Ni48Mn30Ga22 Alloys. Materials Today: Proceedings, 2015, 2, S863-S866.	0.9	1
49	Effect of chemical ordering annealing on martensitic transformation and superelasticity in polycrystalline Niâ€“Mnâ€“Ga microwires. Journal of Alloys and Compounds, 2015, 645, 335-343.	2.8	40
50	Martensite transformation and superelasticity in polycrystalline Niâ€“Mnâ€“Gaâ€“Fe microwires prepared by melt-extraction technique. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 636, 157-163.	2.6	16
51	Shape memory effects of Ni_{49.7} Mn_{25.0} Ga_{19.8} Fe_{5.5} microwires prepared by rapid solidification. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2532-2536.	0.8	7
52	Superelasticity and shape memory effects in polycrystalline Niâ€“Mnâ€“Ga microwires. Journal of Alloys and Compounds, 2013, 577, S296-S299.	2.8	35
53	In-vitro cytotoxicity and in-vivo biocompatibility of as-extruded Mgâ€“4.0Znâ€“0.2Ca alloy. Materials Science and Engineering C, 2012, 32, 665-669.	3.8	36
54	Ferromagnetic Shape Memory Alloys: Foams and Microwires. , 0, , .		1

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55	Grain Structure Related Inhomogeneous Elastocaloric Effects in Cu-Al-Mn Shape Memory Microwires. SSRN Electronic Journal, 0, , .	0.4	0
56	Enhancing Toughness of Particulate Aluminum Composites Via Tailoring Inhomogeneous Particle Distribution. SSRN Electronic Journal, 0, , .	0.4	0