

Mingfang Qian

List of Publications by Year in descending order

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56
papers

916
citations

361045

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500791

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all docs

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56
times ranked

621
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced magnetocaloric effect in Ni-Mn-Sn-Co alloys with two successive magnetostructural transformations. <i>Scientific Reports</i> , 2018, 8, 8235.	1.6	64
2	Effect of reinforcement shape on fracture behaviour of SiC/Al composites with network architecture. <i>Composite Structures</i> , 2019, 215, 411-420.	3.1	48
3	Magnetocaloric effect of Ni-Fe-Mn-Sn microwires prepared by melt-extraction technique. <i>Materials and Design</i> , 2017, 114, 1-9.	3.3	45
4	Effect of chemical ordering annealing on martensitic transformation and superelasticity in polycrystalline Ni-Mn-Ga microwires. <i>Journal of Alloys and Compounds</i> , 2015, 645, 335-343.	2.8	40
5	In-vitro cytotoxicity and in-vivo biocompatibility of as-extruded Mg _{4.0} Zn _{0.2} Ca alloy. <i>Materials Science and Engineering C</i> , 2012, 32, 665-669.	3.8	36
6	Superelasticity and shape memory effects in polycrystalline Ni-Mn-Ga microwires. <i>Journal of Alloys and Compounds</i> , 2013, 577, S296-S299.	2.8	35
7	Magnetocaloric effect with low magnetic hysteresis loss in ferromagnetic Ni-Mn-Sb-Si alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 428, 464-468.	1.0	34
8	Nano-Ti ₅ Si ₃ leading to enhancement of oxidation resistance. <i>Corrosion Science</i> , 2018, 140, 223-230.	3.0	33
9	Enhanced magnetic refrigeration capacity in Ni-Mn-Ga micro-particles. <i>Materials and Design</i> , 2018, 148, 115-123.	3.3	32
10	Magnetostructural coupling and magnetocaloric effect in Ni-Mn-Ga-Cu microwires. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	30
11	Enhanced magnetocaloric effects of Ni-Fe-Mn-Sn alloys involving strong metamagnetic behavior. <i>Journal of Alloys and Compounds</i> , 2017, 715, 206-213.	2.8	28
12	Elastocaloric effect in bamboo-grained Cu _{71.1} Al _{17.2} Mn _{11.7} microwires. <i>Journal of Alloys and Compounds</i> , 2021, 850, 156612.	2.8	27
13	Elastocaloric effects in ultra-fine grained NiTi microwires processed by cold-drawing. <i>APL Materials</i> , 2018, 6, .	2.2	26
14	Martensite transformation and magnetic properties of Fe-doped Ni-Mn-Sn alloys with dual phases. <i>Journal of Alloys and Compounds</i> , 2016, 689, 481-488.	2.8	25
15	Microstructural evolution of Ni-Mn-Ga microwires during the melt-extraction process. <i>Journal of Alloys and Compounds</i> , 2016, 660, 244-251.	2.8	25
16	Enhanced magnetic entropy change and working temperature interval in Ni-Mn-In-Co alloys. <i>Journal of Alloys and Compounds</i> , 2016, 656, 154-158.	2.8	24
17	Elastocaloric effect with small hysteresis in bamboo-grained Cu-Al-Mn microwires. <i>Journal of Materials Science</i> , 2019, 54, 9613-9621.	1.7	24
18	Enhanced cyclic stability of elastocaloric effect in oligocrystalline Cu-Al-Mn microwires via cold-drawing. <i>International Journal of Refrigeration</i> , 2020, 114, 54-61.	1.8	24

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19	Tunable Magnetocaloric Effect in Ni-Mn-Ga Microwires. <i>Scientific Reports</i> , 2018, 8, 16574.	1.6	22
20	Elastocaloric effects related to B2 \rightarrow R and B2 \rightarrow B19 \prime martensite transformations in nanocrystalline Ni _{50.5} Ti _{49.5} microwires. <i>Journal of Alloys and Compounds</i> , 2019, 792, 780-788.	2.8	22
21	Grain structure related inhomogeneous elastocaloric effects in Cu-Al-Mn shape memory microwires. <i>Scripta Materialia</i> , 2020, 178, 356-360.	2.6	22
22	Enhancing the Elastocaloric Cooling Stability of Ni ϵ -Fe ϵ -Ga Alloys via Introducing Pores. <i>Advanced Engineering Materials</i> , 2020, 22, 1901140.	1.6	20
23	Effect of Si doping on microstructure and martensite transformation in Ni-Mn-Sb ferromagnetic shape memory alloys. <i>Intermetallics</i> , 2018, 97, 1-7.	1.8	19
24	Microstructure and mechanical properties of ABO ₃ and nickel-coated MWCNTs reinforced 2024Al hybrid composite fabricated by squeeze casting. <i>Materials Chemistry and Physics</i> , 2019, 226, 344-349.	2.0	19
25	Ultra-high strength GNP/2024Al composite via thermomechanical treatment. <i>Journal of Materials Science and Technology</i> , 2022, 108, 164-172.	5.6	19
26	Introducing equiaxed grains and texture into Ni-Mn-Ga alloys by hot extrusion for superplasticity. <i>Materials and Design</i> , 2016, 112, 339-344.	3.3	17
27	Martensite transformation and superelasticity in polycrystalline Ni-Mn-Ga-Fe microwires prepared by melt-extraction technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 636, 157-163.	2.6	16
28	Effect of partial metamagnetic and magnetic transition coupling on the magnetocaloric effect of Ni-Mn-Sn-Fe alloy. <i>Intermetallics</i> , 2019, 105, 124-129.	1.8	15
29	Giant room-temperature inverse and conventional magnetocaloric effects in Ni-Mn-In alloys. <i>Materials Letters</i> , 2016, 163, 274-276.	1.3	14
30	Reversible elastocaloric effects with small hysteresis in nanocrystalline Ni-Ti microwires. <i>AIP Advances</i> , 2018, 8, .	0.6	13
31	Structural, Magnetic and Mechanical Properties of Oligocrystalline Ni-Mn-Ga Shape Memory Microwires. <i>Materials Today: Proceedings</i> , 2015, 2, S577-S581.	0.9	11
32	Enhanced working stability of elastocaloric effects in polycrystalline Ni-Fe-Ga dual phase alloy. <i>Intermetallics</i> , 2021, 136, 107255.	1.8	11
33	Enhanced elastocaloric stability in NiTi alloys under shear stress. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 838, 142787.	2.6	11
34	Compressive deformation of polycrystalline Ni-Mn-Ga alloys near chemical ordering transition temperature. <i>Materials and Design</i> , 2018, 142, 329-339.	3.3	8
35	Magnetocaloric effect in Ni-Fe-Mn-Sn microwires with nano-sized $\hat{\Gamma}^3$ precipitates. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	8
36	Fracture behaviour of SiCp/Al composites with network architecture. <i>Materialia</i> , 2020, 12, 100725.	1.3	8

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37	Shape memory effects of Ni _{49.7} Mn _{25.0} Ga _{19.8} Fe _{5.5} microwires prepared by rapid solidification. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2532-2536.	0.8	7
38	Increasing working temperature span in Ni-Mn-Sn-Co alloys via introducing pores. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166359.	1.0	6
39	Numerical analysis of an active magnetic regenerator with parallel wire geometry based on a 1D AMR model. <i>International Journal of Refrigeration</i> , 2021, 129, 250-258.	1.8	6
40	Optimization of microstructure and magnetocaloric effect by heat treatment process in LaFe _{11.7} Si _{1.3} microwire. <i>Journal of Alloys and Compounds</i> , 2022, 890, 161845.	2.8	6
41	Enhanced stress concentration sensitivity of SiCp/Al composite with network architecture. <i>Journal of Composite Materials</i> , 2022, 56, 1165-1174.	1.2	6
42	Investigating the microstructure and magnetic properties of La-Fe-Si microwires during fabrication and heat treatment process. <i>Journal of Alloys and Compounds</i> , 2019, 794, 153-162.	2.8	3
43	Dataset on enhanced magnetic refrigeration capacity in Ni-Mn-Ga micro-particles. <i>Data in Brief</i> , 2018, 19, 444-448.	0.5	2
44	Microstructure and Texture after Deformation-induced Grain growth in Polycrystalline Ni ₄₈ Mn ₃₀ Ga ₂₂ Alloys. <i>Materials Today: Proceedings</i> , 2015, 2, S863-S866.	0.9	1
45	Ferromagnetic Shape Memory Alloys: Foams and Microwires. , 0, , .		1
46	Effect of Co-Doping on the Microstructure, Martensitic Transformation Behavior, and Magnetocaloric Effect of Ni-Mn-Sb-Si Ferromagnetic Shape Memory Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 6416-6425.	1.1	1
47	Martensite transformation behavior and magnetocaloric effect in annealed Ni-Co-Mn-Sn microwires. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 274, 115477.	1.7	1
48	An Overview on Magnetic Shape Memory Alloys. , 2022, , 1-33.		1
49	Dataset on the microstructure Ni ₅₀ Mn ₃₈ Sb ₉ Si ₃ alloy and compositions of Ni ₅₀ Mn ₃₈ Sb ₁₂ Si _x (x=2.5, 3) ferromagnetic shape memory alloys. <i>Data in Brief</i> , 2018, 19, 222-225.	0.5	0
50	Grain Structure Related Inhomogeneous Elastocaloric Effects in Cu-Al-Mn Shape Memory Microwires. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
51	Enhancing Toughness of Particulate Aluminum Composites Via Tailoring Inhomogeneous Particle Distribution. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
52	Properties of Magnetic Shape Memory Alloy Microwires. , 2022, , 165-227.		0
53	Preparation and Properties of Bulk Magnetic Shape Memory Alloys. , 2022, , 35-69.		0
54	Preparation and Heat Treatment of Magnetic Shape Memory Alloy Microwires. , 2022, , 101-163.		0

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55	Preparation and Properties of Magnetic Shape Memory Alloy Particles. , 2022, , 229-254.		0
56	Preparation and Properties of Magnetic Shape Memory Alloy Foams. , 2022, , 71-99.		0