

# Oleg Heczko

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6055163/publications.pdf>

Version: 2024-02-01

212  
papers

5,915  
citations

71061

41  
h-index

98753

67  
g-index

213  
all docs

213  
docs citations

213  
times ranked

2206  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deformation twinning with different twin-boundary mobility in 2H martensite in Cu-Ni-Al shape memory alloy. <i>Acta Materialia</i> , 2022, 226, 117598.	3.8	3
2	Effect of Twinning on Angle-Resolved Photoemission Spectroscopy Analysis of Ni <sub>49.7</sub> Mn <sub>29.1</sub> Ga <sub>21.2</sub> (100) Heusler Alloy. <i>Materials</i> , 2022, 15, 717.	1.3	0
3	Compositional Dependence of Magnetocrystalline Anisotropy in Fe-, Co-, and Cu-Alloyed Ni-Mn-Ga. <i>Metals</i> , 2022, 12, 133.	1.0	3
4	Microstructure and Properties of Additively Manufactured AlCoCr <sub>0.75</sub> Cu <sub>0.5</sub> FeNi Multicomponent Alloy: Controlling Magnetic Properties by Laser Powder Bed Fusion via Spinodal Decomposition. <i>Materials</i> , 2022, 15, 1801.	1.3	1
5	Experimental Observations versus First-Principles Calculations for Ni-Mn-Ga Ferromagnetic Shape Memory Alloys: A Review. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, .	1.2	5
6	Dependence of martensite transformation temperature on magnetic field in Ni <sub>2</sub> MnGa and Ni <sub>2</sub> MnGa <sub>0.95</sub> In <sub>0.05</sub> single crystals. <i>Journal of Alloys and Compounds</i> , 2022, 908, 164514.	2.8	2
7	Nanotwinned (inter)martensite transformation interfaces in Ni <sub>50</sub> Mn <sub>25</sub> Ga <sub>20</sub> Fe <sub>5</sub> magnetic shape memory single crystal foil. <i>Materials Characterization</i> , 2022, 190, 112007.	1.9	3
8	Building Hierarchical Martensite. <i>Advanced Functional Materials</i> , 2021, 31, 2005715.	7.8	30
9	Hierarchical Martensite: Building Hierarchical Martensite ( <i>Adv. Funct. Mater.</i> 7/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170046.	7.8	0
10	Systematic experimental search for Fe <sub>2</sub> YZ Heusler compounds predicted by ab-initio calculation. <i>Intermetallics</i> , 2021, 131, 107073.	1.8	9
11	Hysteretic structural changes within five-layered modulated 10M martensite of Ni-Mn-Ga(Fe). <i>Journal of Physics Condensed Matter</i> , 2021, 33, 265404.	0.7	10
12	Full Variation of Site Substitution in Ni-Mn-Ga by Ferromagnetic Transition Metals. <i>Metals</i> , 2021, 11, 850.	1.0	12
13	Magnetic order in Mn excess Ni-Mn-Ga Heusler alloy single crystal probed by ferromagnetic resonance. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 532, 167983.	1.0	7
14	Effect of crystal quality on twinning stress in Ni-Mn-Ga magnetic shape memory alloys. <i>Journal of Materials Research and Technology</i> , 2021, 14, 1934-1944.	2.6	17
15	Effect of electron localization in theoretical design of Ni-Mn-Ga based magnetic shape memory alloys. <i>Materials and Design</i> , 2021, 209, 109917.	3.3	12
16	Magnetic domain structure across the austenite-martensite interface in Ni <sub>50</sub> Mn <sub>25</sub> Ga <sub>20</sub> Fe <sub>5</sub> single crystalline thin foil. <i>Applied Physics Letters</i> , 2021, 119, 212901.	1.5	1
17	Ni nanoparticles in TiO <sub>2</sub> films and their magnetic properties. <i>Physica B: Condensed Matter</i> , 2020, 578, 411862.	1.3	3
18	The Effect of Local Arrangement of Excess Mn on Phase Stability in Ni-Mn-Ga Martensite: An Ab Initio Study. <i>Shape Memory and Superelasticity</i> , 2020, 6, 35-44.	1.1	5

#	ARTICLE	IF	CITATIONS
19	Highly mobile twin boundaries in seven-layer modulated Ni-Mn-Ga-Fe martensite. <i>Scripta Materialia</i> , 2020, 178, 62-66.	2.6	18
20	Antiphase boundaries, magnetic domains, and magnetic vortices in Ni-Mn-Ga single crystals. <i>Acta Materialia</i> , 2020, 184, 179-186.	3.8	17
21	Softening of Shear Elastic Coefficients in Shape Memory Alloys Near the Martensitic Transition: A Study by Laser-Based Resonant Ultrasound Spectroscopy. <i>Metals</i> , 2020, 10, 1383.	1.0	10
22	Ferromagnetic Rh <sub>2</sub> Mn <sub>5</sub> Bi <sub>4</sub> thin film alloy epitaxially grown on MgO(001). <i>Thin Solid Films</i> , 2020, 714, 138388.	0.8	0
23	Systematic Trends of Transformation Temperatures and Crystal Structure of Ni-Mn-Ga-Fe-Cu Alloys. <i>Shape Memory and Superelasticity</i> , 2020, 6, 97-106.	1.1	12
24	Magnetic and Magneto-Optical Properties of Fe <sub>75</sub> xMn <sub>25</sub> Gax Heusler-like Compounds. <i>Materials</i> , 2020, 13, 703.	1.3	5
25	Antiphase boundaries in Ni-Mn-Ga ordered compound. <i>AIP Advances</i> , 2020, 10, 015137.	0.6	2
26	Phase structures of gas atomized equiatomic CrFeNiMn high entropy alloy powder. <i>Journal of Alloys and Compounds</i> , 2020, 827, 154142.	2.8	24
27	Large Non-ergodic Magnetoelastic Damping in Ni-Mn-Ga Austenite. <i>Shape Memory and Superelasticity</i> , 2020, 6, 89-96.	1.1	4
28	Fe <sub>2</sub> MnSn - Experimental quest for predicted Heusler alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 501, 166426.	1.0	14
29	First-principles study of Zn-doping effects on phase stability and magnetic anisotropy of Ni-Mn-Ga alloys. <i>Materials Research Express</i> , 2020, 7, 026101.	0.8	6
30	Origin of magnetocrystalline anisotropy in Ni-Mn-Ga-Co-Cu tetragonal martensite. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 503, 166522.	1.0	13
31	Switching the soft shearing mode orientation in Ni-Mn-Ga non-modulated martensite by Co and Cu doping. <i>Smart Materials and Structures</i> , 2020, 29, 045022.	1.8	12
32	Structural Order, Martensitic Transformation and Magnetic Domains in Ni-Fe-Ga Shape Memory Microwire. <i>Acta Physica Polonica A</i> , 2020, 137, 989-992.	0.2	0
33	Influence of antiphase and ferroelastic domain boundaries on ferromagnetic domain wall width in multiferroic Ni-Mn-Ga compound. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	8
34	Non-conventional twins in five-layer modulated Ni-Mn-Ga martensite. <i>Scripta Materialia</i> , 2019, 162, 497-502.	2.6	11
35	Magnetic coercivity control by heat treatment in Heusler Ni-Mn-Ga(B) single crystals. <i>Acta Materialia</i> , 2019, 169, 109-121.	3.8	19
36	Ultrafast actuation of Ni-Mn-Ga micropillars by pulsed magnetic field. <i>Scripta Materialia</i> , 2019, 162, 482-485.	2.6	25

#	ARTICLE	IF	CITATIONS
37	Suppression of twinning mechanism on nanoscale: size effect in Cu-Ni-Al shape memory alloy. Journal of Materials Science, 2019, 54, 6586-6593.	1.7	12
38	Rapid floating zone growth of Ni <sub>2</sub> MnGa single crystals exhibiting magnetic shape memory functionality. Journal of Alloys and Compounds, 2019, 775, 533-541.	2.8	11
39	Comparison of Highly Mobile Twin Boundaries in Cu-Ni-Al and Ni-Mn-Ga Shape Memory Single Crystals. Minerals, Metals and Materials Series, 2018, , 257-261.	0.3	0
40	Giant magnetic-field-induced strain in Ni-Mn-Ga micropillars. Scripta Materialia, 2018, 150, 173-176.	2.6	26
41	Temperature dependence of elastic properties in austenite and martensite of Ni-Mn-Ga epitaxial films. Acta Materialia, 2018, 145, 298-305.	3.8	37
42	Magneto-optical Kerr effect of a Ni <sub>2.00</sub> Mn <sub>1.16</sub> Ga <sub>0.84</sub> single crystal across austenite and intermartensite transitions. Journal of Magnetism and Magnetic Materials, 2018, 452, 373-379.	1.0	3
43	Mechanical Stabilization of Martensite in Cu-Ni-Al Single Crystal and Unconventional Way to Detect It. Shape Memory and Superelasticity, 2018, 4, 77-84.	1.1	3
44	Magnetic properties of Ni-Mn-Ga-Co-Cu tetragonal martensites exhibiting magnetic shape memory effect. Scripta Materialia, 2018, 142, 61-65.	2.6	17
45	Electronic structure in the combined 10M martensite phase of the $\text{Cu}_{1-x}\text{Ni}_x\text{Al}$ shape memory alloy. $\text{N} < i < M < n > 49.7 < / m n > < / m r o w > < / m s u b > < m m l : m i \text{mathvariant="normal"} > M < / m m l : m i > < m m l : m s u b > < m m l : m i \text{mathvariant="normal"} > n < / m m l : m i > < m m l : m r o w > < m m l : m n > 29.1 < / m m l : m n > < / m m l : m r o w > < / m m l : m s u b > < m m l : m i$	1.1	4
46	Antiphase boundaries in bulk Ni-Mn-Ga Heusler alloy observed by magnetic force microscopy. Applied Physics Letters, 2018, 113, 172901.	1.5	9
47	Structural characterization of semi-heusler/light metal composites prepared by spark plasma sintering. Scientific Reports, 2018, 8, 11133.	1.6	3
48	Transformation Paths from Cubic to Low-Symmetry Structures in Heusler Ni <sub>2</sub> MnGa Compound. Scientific Reports, 2018, 8, 7275.	1.6	23
49	Low temperature a/b nanotwins in Ni <sub>50</sub> Mn <sub>25+x</sub> Ga <sub>25-x</sub> Heusler alloys. Scientific Reports, 2018, 8, 11943.	1.6	14
50	Mechanical Stabilization of Martensite: Comparison of Ni-Mn-Ga and Cu-Ni-Al Shape Memory Single Crystals. Acta Physica Polonica A, 2018, 134, 627-630.	0.2	5
51	Study of 10M' Nanotwinned Phase in the Vicinity of Martensitic Transformation in Ni-Mn-Ga Magnetic Shape Memory Alloy. Acta Physica Polonica A, 2018, 134, 859-862.	0.2	2
52	On changes of Monoclinic Twinning by Passage of Type II Twin Boundary in Ni-Mn-Ga 10M Martensite. Acta Physica Polonica A, 2018, 134, 867-870.	0.2	0
53	Direct observation of a-b twin laminate in monoclinic five-layered martensite of Ni-Mn-Ga magnetic shape memory single crystal. Scripta Materialia, 2017, 131, 76-79.	2.6	21
54	Elastic constants of non-modulated Ni-Mn-Ga martensite. Scripta Materialia, 2017, 136, 20-23.	2.6	18

#	ARTICLE	IF	CITATIONS
55	Nucleation and growth of hierarchical martensite in epitaxial shape memory films. <i>Acta Materialia</i> , 2017, 132, 327-334.	3.8	46
56	Mechanical and magnetic properties of semi-Heusler/light-metal composites consolidated by spark plasma sintering. <i>Materials and Design</i> , 2017, 126, 351-357.	3.3	6
57	Orthorhombic intermediate phase originating from {110} nanotwinning in Ni <sub>50.0</sub> Mn <sub>28.7</sub> Ga <sub>21.3</sub> modulated martensite. <i>Acta Materialia</i> , 2017, 132, 335-344.	3.8	16
58	Temperature dependence of twinning stress – Analogy between Cu–Ni–Al and Ni–Mn–Ga shape memory single crystals. <i>Philosophical Magazine</i> , 2017, 97, 1479-1497.	0.7	11
59	Structure and properties of nanocrystalline nickel prepared by selective leaching at different temperatures. <i>Pure and Applied Chemistry</i> , 2017, 89, 545-552.	0.9	0
60	Effect of Magnetic Ordering on the Stability of Ni–Mn–Ga (–Co–Cu) Alloys Along the Tetragonal Deformation Path. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-6.	1.2	3
61	Using Kerr Microscopy for Direct Observation of Magnetic Domains in Ni–Mn–Ga Magnetic Shape Memory Alloy. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-5.	1.2	2
62	Direct observation of magnetic domains by Kerr microscopy in a Ni-Mn-Ga magnetic shape-memory alloy. <i>Physical Review B</i> , 2017, 95, .	1.1	8
63	Change of magnetic domain structure by mechanically induced twin boundary motion in Ni-Mn-Ga single crystal. <i>Journal of Physics: Conference Series</i> , 2017, 903, 012013.	0.3	0
64	Magnetic Domain Structure and Magnetically-Induced Reorientation in Ni-Mn-Ga Magnetic Shape Memory Alloy. <i>Acta Physica Polonica A</i> , 2017, 131, 1063-1065.	0.2	4
65	Phase transition in a multiferroic Ni-Mn-Ga single crystal. <i>Phase Transitions</i> , 2016, 89, 752-760.	0.6	1
66	Changes in magnetic domain structure during twin boundary motion in single crystal Ni-Mn-Ga exhibiting magnetic shape memory effect. <i>AIP Advances</i> , 2016, 6, 056208.	0.6	10
67	Ab initio prediction of stable nanotwin double layers and 4O structure in Ni <sub>21</sub> Mn <sub>28</sub> Ga <sub>51</sub> Physical Review B, 2016, 94, .		
68	Surface analysis of the Heusler Ni <sub>49.7</sub> Mn <sub>29.1</sub> Ga <sub>21.2</sub> Alloy: The composition, phase transition, and twinned microstructure of martensite. <i>Journal of Applied Physics</i> , 2016, 120, 113905.	1.1	3
69	Structure and microstructure of Ni-Mn-Ga single crystal exhibiting magnetic shape memory effect analysed by high resolution X-ray diffraction. <i>Acta Materialia</i> , 2016, 115, 250-258.	3.8	22
70	Magnetic Shape Memory Effect in Ni-Mn-Ga Single Crystal. <i>Materials Science Forum</i> , 2016, 879, 738-743.	0.3	0
71	Ni–TiO <sub>2</sub> nanocomposite films and their magnetic properties. <i>Physica B: Condensed Matter</i> , 2016, 503, 44-50.	1.3	9
72	Ni–Mn–Ga Single Crystal Exhibiting Multiple Magnetic Shape Memory Effects. <i>Shape Memory and Superelasticity</i> , 2016, 2, 272-280.	1.1	13

#	ARTICLE	IF	CITATIONS
73	The relation between lattice parameters and very low twinning stress in Ni <sub>50</sub> Mn <sub>25+x</sub> Ga <sub>25-x</sub> magnetic shape memory alloys. Smart Materials and Structures, 2016, 25, 025001.	1.8	23
74	Magnetic domains and twin microstructure of single crystal Ni-Mn-Ga exhibiting magnetic shape memory effect. , 2015, , .		0
75	Band mapping of the weakly off-stoichiometric Heusler alloy $Ni_{1-x}Mn_xGa$ in the austenitic phase. Physical Review B, 2015, 91, .		
76	Transformation Properties of Fe <sub>70</sub> Pd <sub>30</sub> XInX Shape Memory Melt-spun Ribbons. Materials Today: Proceedings, 2015, 2, S845-S848.	0.9	3
77	Magnetic Domains and Twin Microstructure of Single Crystal Ni-Mn-Ga Exhibiting Magnetic Shape Memory Effect. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	11
78	High magnetic field study of the Dy <sub>2</sub> Fe <sub>17</sub> H <sub>x</sub> compounds with x=0-3.8. Journal of Alloys and Compounds, 2015, 627, 101-107.	2.8	6
79	Enhanced magnetic hysteresis in Ni-Mn-Ga single crystal and its influence on magnetic shape memory effect. Journal of Applied Physics, 2015, 117, .	1.1	10
80	Optical and magneto-optical studies of martensitic transformation in Ni-Mn-Ga magnetic shape memory alloys. Journal of Applied Physics, 2015, 117, 17A919.	1.1	9
81	Stress-induced transition from modulated 14M to non-modulated martensite in Ni-Mn-Ga alloy. Acta Materialia, 2015, 90, 151-160.	3.8	37
82	Effect of Magnetostatic Interactions on Twin Boundary Motion in NiMnGa Magnetic Shape Memory Alloy. IEEE Magnetics Letters, 2015, 6, 1-4.	0.6	9
83	Effect of Compressive Load on Magnetic Shape Memory Effect in Ni-Mn-Ga Single Crystal. Acta Physica Polonica A, 2015, 128, 704-709.	0.2	1
84	Equivalence of Mechanical and Magnetic Force in Magnetic Shape Memory Effect. Acta Physica Polonica A, 2015, 128, 754-758.	0.2	4
85	Understanding Motion of Twin Boundary – A Key to Magnetic Shape Memory Effect. IEEE Transactions on Magnetics, 2014, 50, 1-7.	1.2	22
86	Localizing sources of acoustic emission during the martensitic transformation. Physical Review B, 2014, 89, .	1.1	34
87	Magneto-optical spectroscopy of ferromagnetic shape-memory Ni-Mn-Ga alloy. Journal of Applied Physics, 2014, 115, .	1.1	13
88	The magnetic and oxidation behavior of bare and silica-coated iron oxide nanoparticles synthesized by reverse co-precipitation of ferrous ion (Fe <sup>2+</sup> ) in ambient atmosphere. Journal of Magnetism and Magnetic Materials, 2014, 353, 15-22.	1.0	50
89	Elasticity and magnetism of Ni <sub>2</sub> MnGa premartensitic tweed. Physica Status Solidi (B): Basic Research, 2014, 251, 2097-2103.	0.7	24
90	Structure and magnetic properties of nickel nanoparticles prepared by selective leaching. Materials Letters, 2014, 137, 221-224.	1.3	13

#	ARTICLE	IF	CITATIONS
91	Magnetic shape memory effect and highly mobile twin boundaries. <i>Materials Science and Technology</i> , 2014, 30, 1559-1578.	0.8	69
92	A microstructural model of motion of macro-twin interfaces in Ni-Mn-Ga 10M martensite. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 64, 198-211.	2.3	88
93	Inapplicability of the Maxwell relation for the quantification of caloric effects in anisotropic ferroic materials. <i>International Journal of Refrigeration</i> , 2014, 37, 281-288.	1.8	22
94	Mechanically induced demagnetization and remanent magnetization rotation in Ni-Mn-Ga ( $\epsilon$ -B) magnetic shape memory alloy. <i>Scripta Materialia</i> , 2014, 87, 25-28.	2.6	13
95	Xenon Focused Ion Beam in the Shape Memory Alloys Investigation - The Case of NiTi and CoNiAl. <i>Microscopy and Microanalysis</i> , 2014, 20, 334-335.	0.2	0
96	Differently mobile twin boundaries and magnetic shape memory effect in 10M martensite of Ni-Mn-Ga. <i>Materials Research Bulletin</i> , 2013, 48, 5105-5109.	2.7	19
97	Magnetic shape memory effect at 1.7%K. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	47
98	Different microstructures of mobile twin boundaries in 10 M modulated Ni-Mn-Ga martensite. <i>Acta Materialia</i> , 2013, 61, 622-631.	3.8	81
99	In situ TEM study of deformation twinning in Ni-Mn-Ga non-modulated martensite. <i>Acta Materialia</i> , 2013, 61, 5290-5299.	3.8	50
100	Microstructure, martensitic transformation and anomalies in $\epsilon^2$ -softening in Co-Ni-Al ferromagnetic shape memory alloys. <i>Acta Materialia</i> , 2013, 61, 5869-5876.	3.8	26
101	Resonant ultrasound spectroscopy - a tool to probe magneto-elastic properties of ferromagnetic shape memory alloys. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	13
102	Influence of sintering temperature on the properties of pulsed electric current sintered hybrid core-shell powders. <i>Journal of the European Ceramic Society</i> , 2013, 33, 2233-2239.	2.8	1
103	Combined effect of structural softening and magneto-elastic coupling on elastic coefficients of Ni Mn Ga austenite. <i>Journal of Alloys and Compounds</i> , 2013, 577, S131-S135.	2.8	30
104	The effect of antiphase boundaries on the elastic properties of Ni-Mn-Ga austenite and premartensite. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 425402.	0.7	25
105	Effect of intermartensite transformation on twinning stress in Ni-Mn-Ga 10%M martensite. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	42
106	Structural Changes in Co-Based F-SMA. <i>Materials Science Forum</i> , 2013, 738-739, 416-420.	0.3	2
107	Anomalous lattice softening of Ni <sub>2</sub> MnGa austenite due to magnetoelastic coupling. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	20
108	Tuning avalanche criticality: Acoustic emission during the martensitic transformation of a compressed Ni-Mn-Ga single crystal. <i>Physical Review B</i> , 2012, 86, .	1.1	34

#	ARTICLE	IF	CITATIONS
109	Influence of Hydrochloric Acid Concentrations on the Formation of AgCl-Doped Iron Oxide-Silica Coreshell Structures. <i>Advances in Science and Technology</i> , 2012, 77, 184-189.	0.2	2
110	The Role of Adaptive Martensite in Magnetic Shape Memory Alloys. <i>Advanced Engineering Materials</i> , 2012, 14, 562-581.	1.6	99
111	Influence of different synthesis approach on doping behavior of silver nanoparticles onto the iron oxide-silica coreshell surfaces. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	7
112	Novel iron oxide-silica coreshell powders compacted by using pulsed electric current sintering: Optical and magnetic properties. <i>Journal of the European Ceramic Society</i> , 2012, 32, 2981-2988.	2.8	4
113	Martensitic Transformation in Co-Based Ferromagnetic Shape Memory Alloy. <i>Acta Physica Polonica A</i> , 2012, 122, 475-477.	0.2	5
114	Room Temperature Synthesis of Magnetite ( $\text{Fe}_3\text{O}_4$ ) Nanoparticles by a Simple Reverse Co-Precipitation Method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 18, 032020.	0.3	27
115	Highly mobile twinned interface in 10M modulated Ni-Mn-Ga martensite: Analysis beyond the tetragonal approximation of lattice. <i>Acta Materialia</i> , 2011, 59, 7450-7463.	3.8	183
116	Temperature dependence of single twin boundary motion in Ni-Mn-Ga martensite. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	57
117	Magnetic and magnetoelastic properties of Ni-Mn-Ga - Do they need a revision?. <i>Journal of Physics: Conference Series</i> , 2011, 303, 012081.	0.3	22
118	Modulated martensite: why it forms and why it deforms easily. <i>New Journal of Physics</i> , 2011, 13, 053029.	1.2	119
119	Adaptive Modulations of Martensites. <i>Physical Review Letters</i> , 2010, 104, 145702.	2.9	218
120	Probing structure and microstructure of epitaxial Ni-Mn-Ga films by reciprocal space mapping and pole figure measurements. <i>Acta Materialia</i> , 2010, 58, 6665-6671.	3.8	13
121	Magnetic anisotropy of nonmodulated Ni-Mn-Ga martensite revisited. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	37
122	On the electronic origin of the inverse magnetocaloric effect in Ni-Co-Mn-In Heusler alloys. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 055004.	1.3	27
123	Metamagnetic transitions and magnetocaloric effect in epitaxial Ni-Co-Mn-In films. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	71
124	Magnetically induced martensite transition in freestanding epitaxial Ni-Mn-Ga films. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	27
125	Stray-Field-Induced Actuation of Free-Standing Magnetic Shape-Memory Films. <i>Advanced Materials</i> , 2009, 21, 3708-3711.	11.1	68
126	In situ studies of the martensitic transformation in epitaxial Ni-Mn-Ga films. <i>Acta Materialia</i> , 2009, 57, 2516-2526.	3.8	62



#	ARTICLE	IF	CITATIONS
127	DMA testing of Ni-Mn-Ga/polymer composites. Composites Part A: Applied Science and Manufacturing, 2009, 40, 125-129.	3.8	55
128	Magnetic Shape Memory Phenomena. , 2009, , 399-439.		51
129	Comparison of different methods for studying magnetic domains in Ni-Mn-Ga martensites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 302-305.	2.6	8
130	Ni-Mn-Ga multifunctional compounds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 80-85.	2.6	63
131	Strain and concurrent magnetization changes in magnetic shape memory Ni-Mn-Ga single crystals - experiment and model. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 283-287.	2.6	14
132	Activation of magnetic shape memory effect in Ni-Mn-Ga alloys by mechanical and magnetic treatment. Acta Materialia, 2008, 56, 5492-5499.	3.8	81
133	Temperature dependence of the damping properties of Ni-Mn-Ga alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 314-317.	2.6	38
134	A fabrication technology for epitaxial Ni-Mn-Ga microactuators. European Physical Journal: Special Topics, 2008, 158, 167-172.	1.2	30
135	Temperature dependence of mechanical damping in Ni-Mn-Ga austenite and non-modulated martensite. Scripta Materialia, 2008, 59, 550-553.	2.6	31
136	Magnetically induced reorientation of martensite variants in constrained epitaxial Ni-Mn-Ga films grown on MgO(001). New Journal of Physics, 2008, 10, 023040.	1.2	104
137	In situ neutron diffraction study of magnetic field induced martensite reorientation in Ni-Mn-Ga under constant stress. Journal of Physics Condensed Matter, 2008, 20, 104224.	0.7	12
138	Magnetic shape memory effect in thin foils. Applied Physics Letters, 2008, 93, .	1.5	44
139	Stress-induced martensite variant reorientation in magnetic shape memory Ni-Mn-Ga single crystal studied by neutron diffraction. Smart Materials and Structures, 2008, 17, 035014.	1.8	15
140	Magnetic field-induced twin boundary motion in polycrystalline Ni-Mn-Ga fibres. New Journal of Physics, 2008, 10, 073002.	1.2	67
141	Epitaxial Ni-Mn-Ga films deposited on SrTiO3 and evidence of magnetically induced reorientation of martensitic variants at room temperature. Applied Physics Letters, 2008, 92, .	1.5	66
142	Magnetic properties of epitaxial Fe-Pd films measured at elevated temperatures. Journal of Applied Physics, 2008, 103, .	1.1	7
143	Stress induced martensite in epitaxial Ni-Mn-Ga films deposited on MgO(001). Applied Physics Letters, 2008, 92, .	1.5	41
144	Thermodynamic, kinetic, and magnetic properties of a $\text{Ni}_{54}\text{Fe}_{19}\text{Ga}_{27}$ magnetic shape-memory single crystal. Physical Review B, 2008, 77, .	1.1	34

#	ARTICLE	IF	CITATIONS
145	Shape-Memory Alloys and Effects. , 2008, , .		0
146	A piezopaint-based sensor for monitoring structure dynamics. Smart Materials and Structures, 2007, 16, 2571-2576.	1.8	66
147	Substrate-free structures of iron-doped Ni-Mn-Ga thin films prepared by pulsed laser deposition. Journal of Physics: Conference Series, 2007, 59, 122-125.	0.3	5
148	Morphology of ferromagnetic sol-gel submicron silica powders doped with iron and nickel particles. Materials Letters, 2007, 61, 3171-3173.	1.3	7
149	Neutron diffraction studies of magnetic-shape memory Ni-Mn-Ga single crystal. Journal of Magnetism and Magnetic Materials, 2007, 316, 386-389.	1.0	6
150	Synthesis and properties of sol-gel submicron silica powders doped with partly oxidized iron particles. Journal of Sol-Gel Science and Technology, 2007, 41, 185-190.	1.1	5
151	Time-dependent magnetostrain and thermal phonons in the Ni-Mn-Ga magnetic shape-memory alloys. International Journal of Applied Electromagnetics and Mechanics, 2006, 23, 75-79.	0.3	6
152	Stress dependence of magnetic shape memory effect and its model. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 1003-1006.	2.6	14
153	Temperature dependence of reversible field-induced strain in Ni-Mn-Ga single crystal. Scripta Materialia, 2006, 54, 1497-1500.	2.6	36
154	Magnetization changes in Ni-Mn-Ga magnetic shape memory single crystal during compressive stress reorientation. Scripta Materialia, 2006, 54, 1549-1552.	2.6	26
155	Magnetic domain evolution with applied field in a Ni-Mn-Ga magnetic shape memory alloy. Scripta Materialia, 2006, 54, 2155-2160.	2.6	49
156	Magnetic indication of the stress-induced martensitic transformation in ferromagnetic Ni-Mn-Ga alloy. Journal of Magnetism and Magnetic Materials, 2006, 302, 387-390.	1.0	17
157	Development of Nano-reinforced HVOF Sprayed Ceramic Coatings. Advanced Engineering Materials, 2006, 8, 669-673.	1.6	5
158	Direct optical observation of magnetic domains in Ni-Mn-Ga martensite. Applied Physics Letters, 2006, 89, 082502.	1.5	31
159	Reversible 6% strain of Ni-Mn-Ga martensite using opposing external stress in static and variable magnetic fields. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 829-831.	1.0	45
160	Determination of ordinary magnetostriction in Ni-Mn-Ga magnetic shape memory alloy. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 846-849.	1.0	38
161	Magnetic shape memory effect and magnetization reversal. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 787-794.	1.0	159
162	Investigation of magnetic domains in Ni-Mn-Ga alloys with a scanning electron microscope. Smart Materials and Structures, 2005, 14, S211-S215.	1.8	14

#	ARTICLE	IF	CITATIONS
163	Magnetic shape memory fatigue. , 2005, 5761, 513.		13
164	Various magnetic domain structures in a Ni-Mn-Ga martensite exhibiting magnetic shape memory effect. Journal of Applied Physics, 2004, 96, 2159-2163.	1.1	81
165	Compositional dependence of structure, magnetization and magnetic anisotropy in Ni-Mn-Ga magnetic shape memory alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2045-2046.	1.0	43
166	Effect of the chemical composition to martensitic transformation in Ni-Mn-Ga-Fe alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 378, 384-388.	2.6	63
167	Giant Magneto-elastic Strain-magnetic Shape Memory Effect. European Physical Journal D, 2004, 54, 611-614.	0.4	5
168	Pulsed laser deposition of NiMnGa thin films on silicon. Applied Physics A: Materials Science and Processing, 2004, 79, 1505-1508.	1.1	35
169	Acoustic emission of Ni-Mn-Ga magnetic shape memory alloy in different straining modes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 374, 263-269.	2.6	44
170	Tensile/compressive behaviour of non-layered tetragonal Ni <sub>52.8</sub> Mn <sub>25.7</sub> Ga <sub>21.5</sub> alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 386, 27-33.	2.6	50
171	Investigation of magnetic anisotropy of Ni-Mn-Ga seven-layered orthorhombic martensite. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2049-2050.	1.0	28
172	Magnetic properties of stress-induced martensite and martensitic transformation in Ni-Mn-Ga magnetic shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 378, 394-398.	2.6	26
173	Ni-Mn-Ga films on Si, GaAs and Ni-Mn-Ga single crystals by pulsed laser deposition. Applied Surface Science, 2004, 238, 155-158.	3.1	28
174	Tensile/compressive behaviour of non-layered tetragonal Ni <sub>52.8</sub> Mn <sub>25.7</sub> Ga <sub>21.5</sub> alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 386, 27-33.	2.6	12
175	Superelastic response of Ni-Mn-Ga martensite in magnetic fields and a simple model. IEEE Transactions on Magnetics, 2003, 39, 3402-3404.	1.2	86
176	Temperature dependence and temperature limits of magnetic shape memory effect. Journal of Applied Physics, 2003, 94, 7139-7143.	1.1	142
177	Coexistence of ferromagnetic and antiferromagnetic order in Mn-doped Ni <sub>2</sub> MnGa. Physical Review B, 2003, 67, .	1.1	208
178	Magnetic anisotropy in Ni-Mn-Ga martensites. Journal of Applied Physics, 2003, 93, 8636-8638.	1.1	144
179	Relation between structure, magnetization process and magnetic shape memory effect of various martensites occurring in Ni-Mn-Ga alloys. European Physical Journal Special Topics, 2003, 112, 959-962.	0.2	54
180	Study of austenite-martensite transformation in Ni-Mn-Ga magnetic shape memory alloy. European Physical Journal Special Topics, 2003, 112, 911-915.	0.2	17

#	ARTICLE	IF	CITATIONS
181	Behaviour of Ni-Mn-Ga alloys under mechanical stress. European Physical Journal Special Topics, 2003, 112, 943-946.	0.2	23
182	Temperature dependence of magnetic anisotropy in Ni-Mn-Ga alloys exhibiting giant field-induced strain. Journal of Applied Physics, 2002, 91, 8228.	1.1	82
183	Magnetic properties of various martensitic phases in Ni-Mn-Ga alloy. IEEE Transactions on Magnetics, 2002, 38, 2835-2837.	1.2	48
184	Structure and Magnetic Properties of a Shape-Memory NiMnGa Alloy. Materials Science Forum, 2002, 394-395, 541-544.	0.3	9
185	Magnetic properties of Ni-Mn-Ga ribbon prepared by rapid solidification. IEEE Transactions on Magnetics, 2002, 38, 2841-2843.	1.2	43
186	Temperature variation of structure and magnetic properties of Ni-Mn-Ga magnetic shape memory alloys. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 1446-1449.	1.0	63
187	Magnetic properties and domain structure of magnetic shape memory Ni-Mn-Ga alloy. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 996-998.	1.0	81
188	Influence of Magnetic Field and Stress on Large Magnetic Shape Memory Effect in Single Crystalline Ni-Mn-Ga Ferromagnetic Alloy at Room Temperature. Materials Science Forum, 2001, 373-376, 341-344.	0.3	21
189	Effect of temperature on magnetic properties of Ni-Mn-Ga magnetic shape memory (MSM) alloys. IEEE Transactions on Magnetics, 2001, 37, 2672-2674.	1.2	56
190	Magnetic shape memory effect progress from idea to first actuators and sensors. European Physical Journal Special Topics, 2001, 11, Pr8-243-Pr8-243.	0.2	4
191	The behaviour of Ni-Mn-Ga martensitic alloys in magnetic field. European Physical Journal Special Topics, 2001, 11, Pr8-287-Pr8-292.	0.2	6
192	Structural, magnetic and magneto-optical properties of SrFe <sub>12</sub> -xAl <sub>x</sub> O <sub>19</sub> hexaferrite thin films prepared by laser ablation deposition. Thin Solid Films, 2000, 358, 206-214.	0.8	25
193	Giant field-induced reversible strain in magnetic shape memory NiMnGa alloy. IEEE Transactions on Magnetics, 2000, 36, 3266-3268.	1.2	320
194	Formation of amorphous Fe <sub>1-x</sub> B <sub>x</sub> alloys during solid state alloying with hexane. Journal of Non-Crystalline Solids, 1998, 224, 36-42.	1.5	12
195	Creep-induced magnetic anisotropy and magnetostriction in partly nanocrystalline Fe <sub>74</sub> Nb <sub>3</sub> Cu <sub>1</sub> Si <sub>13</sub> B <sub>9</sub> alloy. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 151-152.	1.0	5
196	Magnetic properties of the crystalline and amorphous components of a nanocrystalline FeNbB alloy. Journal of Magnetism and Magnetic Materials, 1996, 160, 259-260.	1.0	9
197	Study of magnetization in compacted amorphous and nanocrystalline alloy Fe <sub>73.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> Si <sub>13.5</sub> B <sub>9</sub> . IEEE Transactions on Magnetics, 1994, 30, 513-515.	1.2	2
198	Microstructure of dynamically compacted amorphous materials. AIP Conference Proceedings, 1994, , .	0.3	2

#	ARTICLE	IF	CITATIONS
199	Magnetic properties of compacted alloy Fe <sub>73.5</sub> /Cu <sub>7</sub> /Nb <sub>3</sub> /Si <sub>13.5</sub> /B <sub>9</sub> in amorphous and nanocrystalline state. IEEE Transactions on Magnetics, 1993, 29, 2670-2672.	1.2	10
200	Mechanically Alloyed Fe-B, Fe-Si and Fe-B-Si Powders. Key Engineering Materials, 1993, 81-83, 159-168.	0.4	11
201	Magnetic anisotropy in as-quenched and stress-annealed amorphous and nanocrystalline Fe <sub>73.5</sub> Cu <sub>1</sub> Nb <sub>3</sub> Si <sub>13.5</sub> B <sub>9</sub> alloys. Journal of Magnetism and Magnetic Materials, 1992, 112, 275-277.	1.0	83
202	Giant field-induced reversible linear strain in magnetic shape memory NiMnGa at room temperature. , 0, , .		1
203	Magnetic properties of various martensitic phases in Ni-Mn-Ga alloy. , 0, , .		0
204	Relation between magnetic reversal and magnetic shape memory effect. , 0, , .		0
205	Magnetic properties of Ni-Mn-Ga ribbon prepared by rapid solidification. , 0, , .		0
206	Superelastic response of Ni-Mn-Ga martensite in magnetic field and simple model. , 0, , .		1
207	Magnetoelastic Coupling in Ni-Mn-Ga Magnetic Shape Memory Alloy. Materials Science Forum, 0, 635, 125-130.	0.3	7
208	Analysis of Twin Boundary in Single Crystal of Ni-Mn-Ga Martensite Using Powder Laboratory Diffractometer. Solid State Phenomena, 0, 203-204, 13-16.	0.3	0
209	Transitions Between Austenite and Martensite Structures in Ni <sub>50</sub>Mn <sub>25</sub>Ga <sub>20</sub>Fe <sub>5</sub> Thin Foil. SSRN Electronic Journal, 0, , .	0.4	1
210	Universality of Temperature Dependence of Twinning Stress in Ni-Mn-Ga 10M Martensite and Effect of Crystal Quality. SSRN Electronic Journal, 0, , .	0.4	1
211	Epitaxial Growth of Ni-Mn-Ga: Consequences of Magnetron Configuration on Martensitic Behavior. , 0, , 281-286.		0
212	Magnetic Field Induced Reorientation and Mechanical Training Process in Ni-Mn-Ga Single Crystal. , 0, , 663-667.		0