Volodymyr A Chernenko

List of Publications by Year
in descending order

246	7,630	57719	71651
papers	citations	44 h-index	76 g-index

255	255	255	2579
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystal structure of martensitic phases in Niâ€“Mnâ€“Ga shape memory alloys. Acta Materialia, 2000, 48, 3027-3038.	3.8	601
2	The development of new ferromagnetic shape memory alloys in Ni-Mn-Ga system. Scripta Metallurgica Et Materialia, 1995, 33, 1239-1244.	1.0	490
3	Sequence of martensitic transformations in Ni-Mn-Ga alloys. Physical Review B, 1998, 57, 2659-2662.	1.1	215
4	Premartensitic phenomena and other phase transformations in Niâ€“Mnâ€“Ga alloys studied by dynamical mechanical analysis and electron diffraction. Acta Materialia, 2002, 50, 53-60.	3.8	192
5	Large cyclic magnetic-field-induced deformation in orthorhombic (14M) Niâ€“Mnâ€“Ga martensite. Journal of Applied Physics, 2004, 95, 1531-1536.	1.1	177
6	Stress-induced twin rearrangement resulting in change of magnetization in a Niâ€“Mnâ€“Ga ferromagnetic martensite. Scripta Materialia, 2003, 49, 129-133.	2.6	161
7	Anomalies related to theTA2-phonon-mode condensation in the HeuslerNi2MnGa alloy. Physical Review B, 1997, 55, 11068-11071.	1.1	158
8	Crystal structure of 7M modulated Niâ€“Mnâ€“Ga martensitic phase. Acta Materialia, 2008, 56, 4529-4535.	3.8	143
9	Superelasticity in high-temperature Niâ€“Mnâ€“Ga alloys. Journal of Applied Physics, 2003, 93, 2394-2399.	1.1	140
10	A microscopic approach to the magnetic-field-induced deformation of martensite (magnetoplasticity). Journal of Magnetism and Magnetic Materials, 2003, 267, 325-334.	1.0	139
11	Large cyclic deformation of a Ni-Mn-Ga shape memory alloy induced by magnetic fields. Journal of Applied Physics, 2002, 92, 6708-6713.	1.1	120
12	Low temperature-induced intermartensitic phase transformations in Niâ€“Mnâ€“Ga single crystal. Acta Materialia, 2005, 53, 111-120.	3.8	106
13	Effect of martensitic transformation and magnetic field on transport properties of Ni-Mn-Ga and Ni-Fe-Ga Heusler alloys. Physical Review B, 2009, 80, .	1.1	101
14	Premartensitic and martensitic phase transitions in ferromagneticNi2MnGa. Physical Review B, 1999, 60, 7085-7090.	1.1	100
15	Ferromagnetism of thermoelastic martensites:â€ƒTheory and experiment. Physical Review B, 2003, 67, .	1.1	97
16	Transformation behaviour and martensite stabilization in the ferromagnetic Coâ€“Niâ€“Ga Heusler alloy. Scripta Materialia, 2004, 50, 225-229.	2.6	92
17	Magnetic-field-induced superelasticity of ferromagnetic thermoelastic martensites: Experiment and modeling. Physical Review B, 2004, 69, .	1.1	91
18	Complex magnetic ordering as a driving mechanism of multifunctional properties of Heusler alloys from first principles. European Physical Journal B, 2013, 86, 1.	0.6	88

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19	Long-period martensitic structures of Ni-Mn-Ga alloys studied by high-resolution transmission electron microscopy. Journal of Applied Physics, 2005, 97, 083516.	1.1	84
20	Phase Transformations in Rapidly Quenched Niâ€“Mnâ€“Ga Alloys. Journal of Materials Research, 2000, 15, 1496-1504.	1.2	81
21	Magnetic moment and chemical order in off-stoichiometric Niâ€“Mnâ€“Ga ferromagnetic shape memory alloys. New Journal of Physics, 2011, 13, 033039.	1.2	78
22	Internal friction associated with the structural phase transformations in Ni-Mn-Ga alloys. Acta Materialia, 1997, 45, 999-1004.	3.8	77
23	Pre-martensitic state in Ni - Mn - Ga alloys. Journal of Physics Condensed Matter, 1996, 8, 6457-6463.	0.7	76
24	First-principles calculation of the instability leading to giant inverse magnetocaloric effects. Physical Review B, 2014, 89, .	1.1	73
25	Transformation behavior of Niâ€“Mnâ€“Ga thin films. Smart Materials and Structures, 2005, 14, S245-S252.	1.8	72
26	Ferromagnetic shape memory alloys: Scientific and applied aspects. Sensors and Actuators A: Physical, 2008, 142, 542-548.	2.0	68
27	A phenomenological model of ferromagnetic martensite. Journal of Physics Condensed Matter, 1998, 10, 4587-4596.	0.7	67
28	Training, constraints, and high-cycle magneto-mechanical properties of Ni-Mn-Ga magnetic shape-memory alloys. European Physical Journal: Special Topics, 2008, 158, 79-85.	1.2	67
29	Stressâ€“temperature phase diagram of a ferromagnetic Niâ€“Mnâ€“Ga shape memory alloy. Acta Materialia, 2005, 53, 5071-5077.	3.8	65
30	Influence of Fe doping and magnetic field on martensitic transition in Niâ€“Mnâ€“Sn melt-spun ribbons. Acta Materialia, 2016, 107, 9-16.	3.8	64
31	Stress - induced martensitic transformations in Ni2MnGa. Scripta Metallurgica Et Materialia, 1992, 26, 175-177.	1.0	63
32	Phase diagrams in the Niî—¸Mnî—¸Ga system under compression. Intermetallics, 1998, 6, 29-34.	1.8	61
33	Shape memory effect and magnetostriction in polycrystalline Niâ€“Mnâ€“Ga thin film microactuators. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 940-943.	2.6	61
34	Giant magnetoelastic response in MnAs. Journal of Applied Physics, 1999, 85, 7833-7837.	1.1	59
35	Magnetocaloric effect linked to the martensitic transformation in sputter-deposited Niâ€“Mnâ€“Ga thin films. Applied Physics Letters, 2009, 95, .	1.5	57
36	Internal friction behaviour of Niâ€“Mnâ€“Ga. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 370, 481-484.	2.6	56

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37	The effect of magneto-crystalline anisotropy on the properties of hard and soft magnetic ferrite nanoparticles. Beilstein Journal of Nanotechnology, 2019, 10, 1348-1359.	1.5	56
38	Thermodynamics of martensitic transformations affected by hydrostatic pressure. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 73, 999-1008.	0.7	55
39	Magnetoelastic Nature of Ferromagnetic Shape Memory Effect. Materials Science Forum, 0, 583, 1-20.	0.3	55
40	Magnetic influence on the martensitic transformation entropy in Ni-Mn-In metamagnetic alloy. Applied Physics Letters, 2013, 102, .	1.5	52
41	Characterization of primary and secondary magnetite in marine sediment by combining chemical and magnetic unmixing techniques. Global and Planetary Change, 2013, 110, 321-339.	1.6	50
42	Martensitic transformation and magnetic field induced effects in Ni42Co8Mn39Sn11 metamagnetic shape memory alloy. Acta Materialia, 2016, 109, 170-176.	3.8	50
43	Effect of atomic order on the martensitic and magnetic transformations in Niâ€“Mnâ€“Ga ferromagnetic shape memory alloys. Journal of Physics Condensed Matter, 2010, 22, 166001.	0.7	49
44	Epitaxial Niâ€“Mnâ€“Ga/MgO(100) thin films ranging in thickness from 10 to 100nm. Acta Materialia, 2013, 61, 263-272.	3.8	49
45	Martensite stabilization in a high temperature Niâ€“Mnâ€“Ga alloy. Scripta Materialia, 2005, 53, 315-318.	2.6	47
46	Magnetic and magnetocaloric properties of martensitic Ni2Mn1.4Sn0.6 Heusler alloy. Journal of Magnetism and Magnetic Materials, 2012, 324, 3519-3523.	1.0	46
47	New Aspects of Structural and Magnetic Behaviour of Martensites in Ni-Mn-Ga Alloys. Materials Transactions, 2002, 43, 856-860.	0.4	45
48	Behavior of magnetic domains during structural transformations in Ni2MnGa ferromagnetic shape memory alloy. Applied Physics Letters, 2003, 83, 3752-3754.	1.5	44
49	Magnetic properties of ZnxFe3â”'xO4 nanoparticles: A competition between the effects of size and Zn doping level. Journal of Magnetism and Magnetic Materials, 2019, 482, 206-218.	1.0	43
50	Composition-Dependent Basics of Smart Heusler Materials from First- Principles Calculations. Materials Science Forum, 0, 684, 1-29.	0.3	39
51	Large tensile superelasticity from intermartensitic transformations in Ni49Mn28Ga23 single crystal. Applied Physics Letters, 2016, 108, .	1.5	39
52	Influence of Co Addition on Martensitic and Magnetic Transitions in Ni-Fe-Ga β Based Shape Memory Alloys. Materials Transactions, 2005, 46, 734-737.	0.4	38
53	Large magnetic-field-induced deformation and magneto-mechanical fatigue of ferromagnetic Niâ€“Mnâ€“Ga martensites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 387-389, 965-968.	2.6	37
54	An efficient control of Curie temperature TC in Niâ€“Mnâ€“Ga alloys. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2067-2068.	1.0	36

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55	Hysteretic and anhysteretic tensile stressâ€“strain behavior of Niâ€“Fe(Co)â€“Ga single crystal: Experiment and theory. Acta Materialia, 2014, 66, 79-85.	3.8	36
56	Transformation behavior of Ni-Mn-Ga/Si(100) thin film composites with different film thicknesses. European Physical Journal: Special Topics, 2008, 158, 179-185.	1.2	35
57	HREM study of different martensitic phases in Niâ€“Mnâ€“Ga alloys. Materials Chemistry and Physics, 2003, 81, 457-459.	2.0	34
58	Structure of the layered martensitic phases of Niâ€“Mnâ€“Ga alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 931-934.	2.6	34
59	Transformation Volume Effects on Shape Memory Alloys. Metals, 2013, 3, 237-282.	1.0	33
60	Martensitic transformation in ferromagnets: experiment and theory. Journal of Magnetism and Magnetic Materials, 1999, 196-197, 859-860.	1.0	32
61	Texture and transformation characteristics of Niâ€“Mnâ€“Ga films deposited on alumina. Scripta Materialia, 2006, 54, 1287-1291.	2.6	32
62	Magnetization processes near the Curie temperatures of the itinerant ferromagnets, Ni2MnGa and pure nickel. Journal of Alloys and Compounds, 2007, 442, 191-193.	2.8	32
63	Conventional and inverse elastocaloric effect in Ni-Fe-Ga and Ni-Mn-Sn ribbons. Scripta Materialia, 2017, 128, 36-40.	2.6	32
64	Large magnetic-field-induced strains in Niâ€“Mnâ€“Ga nonmodulated martensite. Applied Physics Letters, 2009, 95, .	1.5	31
65	Martensitic transformation in a ferromagnetic Coâ€“Niâ€“Ga single crystal. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 378, 357-360.	2.6	30
66	Martensitic Transformation and Microstructure of Sputter-Deposited Ni–Mn–Ga Films. Materials Transactions, 2006, 47, 619-624.	0.4	30
67	Residual stress in Ni-Mn-Ga thin films deposited on different substrates. European Physical Journal: Special Topics, 2008, 158, 99-105.	1.2	30
68	Magnetic domains in Niâ€“Mnâ€“Ga martensitic thin films. Journal of Physics Condensed Matter, 2005, 17, 5215-5224.	0.7	29
69	Structural and magnetic characterization of martensitic Niâ€“Mnâ€“Ga thin films deposited on Mo foil. Acta Materialia, 2006, 54, 5461-5467.	3.8	29
70	Destabilization of Niâ€“Mnâ€“Ga martensite: Experiment and theory. Acta Materialia, 2012, 60, 1587-1593.	3.8	29
71	Magnetic and structural properties of glass-coated Heusler-type microwires exhibiting martensitic transformation. Scientific Reports, 2018, 8, 621.	1.6	29
72	Temperature dependent magnetostrains in polycrystalline magnetic shape memory Heusler alloys. Journal of Alloys and Compounds, 2013, 577, S305-S308.	2.8	27

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73	Temperature dependence of magnetically induced strain in single crystal samples of Niâ€“Mnâ€“Ga. Journal of Applied Physics, 2002, 91, 7815.	1.1	26
74	Martensitic transformation in Niâ€“Feâ€“Ga alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 478, 125-129.	2.6	26
75	Effect of Fe doping and magnetic field on martensitic transformation of Mn-Ni(Fe)-Sn metamagnetic shape memory alloys. Acta Materialia, 2018, 155, 95-103.	3.8	26
76	Properties of ribbon made from shape memory alloy Ni2MnGa by quenching from the liquid state. Smart Materials and Structures, 1994, 3, 80-82.	1.8	25
77	Intermartensitic phase transformations in Niâ€“Mnâ€“Ga studied under magnetic field. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 871-873.	1.0	25
78	Influence of constraints and twinning stress on magnetic field-induced strain of magnetic shape-memory alloys. Scripta Materialia, 2011, 64, 888-891.	2.6	25
79	Transformation behavior and inverse caloric effects in magnetic shape memory Ni44-xCuxCo6Mn39Sn11 ribbons. Journal of Alloys and Compounds, 2017, 721, 172-181.	2.8	25
80	Magnetic hyperthermia properties of CoFe2O4 nanoparticles: Effect of polymer coating and interparticle interactions. Ceramics International, 2022, 48, 27995-28005.	2.3	25
81	Theoretical description of magnetocaloric effect in the shape memory alloy exhibiting metamagnetic behavior. Journal of Applied Physics, 2016, 119, .	1.1	24
82	Properties of rare earth added Cuâ€“12wt%Alâ€“3wt%Niâ€“0.6wt%Ti high temperature shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 370-381.	2.6	24
83	Stressâ€“strain behaviour of Niâ€“Mnâ€“Ga alloys: experiment and modelling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 378, 349-352.	2.6	23
84	Thickness dependence of transformation characteristics of Niâ€“Mnâ€“Ga thin films deposited on alumina: Experiment and modeling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 944-947.	2.6	23
85	Ni-Mn-Ga-(Co, Fe, Cu) high temperature ferromagnetic shape memory alloys: Effect of Mn and Ga replacement by Cu. Scripta Materialia, 2018, 154, 131-133.	2.6	23
86	Acoustic phonon mode condensation in Ni2MnGa compound. Solid State Communications, 1997, 101, 7-9.	0.9	22
87	Martensitic transformation in Niâ€“Mnâ€“Ga/Si(100) thin films. Thin Solid Films, 2014, 558, 449-454.	0.8	22
88	Adiabatic magnetocaloric effect in Ni50Mn35In15 ribbons. Applied Physics Letters, 2016, 109, .	1.5	22
89	Vibrational and magnetic behavior of transforming and nontransforming Ni-Mn-Ga alloys. Physical Review B, 2007, 76, .	1.1	21
90	Variation of atomic spacing and thermomechanical properties in Niâ€“Mnâ€“Ga/alumina film composites. Acta Materialia, 2008, 56, 1797-1801.	3.8	21

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91	Role of magnetostatic interactions in micromagnetic structure of multiferroics. Journal of Applied Physics, 2008, 103, .	1.1	21
92	Ferromagnetic resonance properties and anisotropy of Ni-Mn-Ga thin films of different thicknesses deposited on Si substrate. Journal of Applied Physics, 2009, 105, .	1.1	21
93	Effect of solidification rate on martensitic transformation behavior and adiabatic magnetocaloric effect of Ni50Mn35In15 ribbons. Journal of Alloys and Compounds, 2018, 748, 464-472.	2.8	21
94	Vibration damping of Ni-Mn-Ga/silicone composites. Scripta Materialia, 2018, 146, 9-12.	2.6	21
95	Magnetic field-induced rubber-like behavior in Ni-Mn-Ga particles/polymer composite. Scientific Reports, 2019, 9, 3443.	1.6	21
96	Effect of Magnetic Field on Phase Transformations in MnAs and Ni₂MnGa Compounds. Materials Transactions, JIM, 2000, 41, 928-932.	0.9	20
97	Low-temperature specific heat of Niâ€“Mnâ€“Ga ferromagnetic shape memory alloys. Journal of Magnetism and Magnetic Materials, 2008, 320, e156-e159.	1.0	20
98	Magnetic field effect on premartensitic transition in Niâ€“Mnâ€“Ga alloys. Applied Physics Letters, 2009, 94, .	1.5	20
99	Elastic and Superelastic Properties of NiFeCoGa Fibers Grown by Micro-Pulling-Down Method. Materials Transactions, 2009, 50, 934-937.	0.4	20
100	Giant two-way shape memory effect in high-temperature Niâ€“Mnâ€“Ga single crystal. Physics Procedia, 2010, 10, 94-98.	1.2	19
101	Magnetic anisotropy of mesoscale-twinned Ni-Mn-Ga thin films. Physical Review B, 2011, 84, .	1.1	19
102	Antiferromagnetic coupling between martensitic twin variants observed by magnetic resonance in Ni-Mn-Sn-Co films. Physical Review B, 2017, 95, .	1.1	19
103	Negative Magnetoresistance in Nanotwinned NiMnGa Epitaxial Films. Scientific Reports, 2018, 8, 15730.	1.6	19
104	Properties of sputter-deposited Niâ€“Mnâ€“Ga thin films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 481-482, 271-274.	2.6	18
105	Analysis of mechanical and magnetic instabilities in Ni-Mn-Ga single crystals. Journal of Applied Physics, 2003, 93, 8641-8643.	1.1	17
106	Magnetization anomalies in melt-spun Niâ€“Mnâ€“Ga ribbons. Journal of Magnetism and Magnetic Materials, 2008, 320, 1063-1067.	1.0	17
107	Reversible and irreversible martensitic transformations in Fe-Pd and Fe-Pd-Co alloys. European Physical Journal: Special Topics, 2008, 158, 107-112.	1.2	17
108	MFM Domain Imaging of Textured Ni-Mn-Ga/MgO(100) Thin Films. IEEE Transactions on Magnetics, 2008, 44, 3040-3043.	1.2	17

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109	Magnetic anisotropies in Niâ€“Mnâ€“Ga films on MgO(001) substrates. Applied Physics Letters, 2010, 96, 042502.	1.5	17
110	Magnetic field and atomic order effect on the martensitic transformation of a metamagnetic alloy. Journal of Physics Condensed Matter, 2013, 25, 484005.	0.7	17
111	Magnetostructural transition and magnetocaloric effect in MnNiGe1.05 melt-spun ribbons. Journal of Applied Physics, 2014, 115, .	1.1	17
112	Magnetic and nonmagnetic contributions to the heat capacity of metamagnetic shape memory alloy. Journal of Applied Physics, 2017, 121, .	1.1	17
113	Martensitic transformation in Ni-Mn-Ga alloys. Phase Transitions, 1996, 57, 233-240.	0.6	16
114	Effect of high hydrostatic pressure on premartensitic transition in Ni2MnGa. Scripta Materialia, 2006, 55, 303-306.	2.6	16
115	Magnetostriction in the vicinity of structural transitions in Ni2MnGa. Applied Physics Letters, 2012, 100, .	1.5	16
116	Polarized Neutron Study of Ni-Mn-Ga Alloys: Site-Specific Spin Density Affected by Martensitic Transformation. Physical Review Letters, 2017, 119, 155701.	2.9	16
117	Fundamentals of magnetocaloric effect in magnetic shape memory alloys. Handbook of Magnetic Materials, 2019, 28, 1-45.	0.6	16
118	Role of Fe addition in Niâ€“Mnâ€“Gaâ€“Coâ€“Cuâ€“Fe ferromagnetic shape memory alloys for high-temperature magnetic actuation. Acta Materialia, 2020, 196, 549-555.	3.8	16
119	Martensitic Transformations in Ni-Mn-Ga System Affected by External Fields. Materials Science Forum, 2000, 327-328, 485-488.	0.3	15
120	Magnetic Anisotropy of Ferromagnetic Martensites. Materials Science Forum, 0, 684, 31-47.	0.3	15
121	Magnetic and conventional shape memory behavior of Mnâ€“Niâ€“Sn and Mnâ€“Niâ€“Sn(Fe) alloys. Journal Physics D: Applied Physics, 2016, 49, 205002.	1.3	15
122	High temperature Ni 45 Co 5 Mn 25â^'x Fe x Ga 20 Cu 5 ferromagnetic shape memory alloys. Scripta Materialia, 2017, 134, 119-122.	2.6	15
123	Large magnetostrains of Ni-Mn-Ga/silicone composite containing system of oriented 5M and 7M martensitic particles. Scripta Materialia, 2022, 207, 114265.	2.6	15
124	Cyclic magnetic-field -induced deformation and magneto-mechanical fatigue of Ni-Mn-Ga ferromagnetic martensites. Materials Research Society Symposia Proceedings, 2003, 785, 1221.	0.1	14
125	Interdependence between the magnetic properties and lattice parameters of Niâ€“Mnâ€“Ga martensite. Journal of Physics Condensed Matter, 2004, 16, 8345-8352.	0.7	14
126	Martensitic Transformation in Ni–Mn–Ga Alloy Under High Magnetic Fields. Materials Transactions, 2006, 47, 635-638.	0.4	14

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127	Magnetic susceptibility of martensitic Niâ€“Mnâ€“Ga film. Journal of Applied Physics, 2007, 101, 053909.	1.1	14
128	Direct evidence of the magnetoelastic interaction in Ni2MnGa magnetic shape memory system. Applied Physics Letters, 2013, 102, .	1.5	14
129	Thin films of ferromagnetic shape memory alloys processed by laser beam ablation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 378, 443-447.	2.6	13
130	Low-temperature-induced intermartensitic phase transformations in Niâ€“Mnâ€“Ga single crystal. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 811-815.	1.0	13
131	Influence of Magnetic Field on Magnetostructural Transition in Ni_{46.4}Mn_{32.8}Sn_{20.8} Heusler Alloy. Materials Science Forum, 0, 635, 89-95.	0.3	13
132	Incommensurate 6M-modulated structure of Niâ€“Feâ€“Ga martensite. Scripta Materialia, 2010, 62, 383-386.	2.6	13
133	Transformation of twinned<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ni</mml:mtext></mml:mrow><mml:mrow><mml:mn>52.0</mml:mn> in a rotating magnetic field: Theory and ex. Physical Review B, 2010, 81, .	1.1	13
134	Lattice instability of Ni-Mn-Ga ferromagnetic shape memory alloys probed by hard X-ray photoelectron spectroscopy. Applied Physics Letters, 2013, 103, .	1.5	13
135	Martensitic transformation and magnetic anisotropy in Ni-Mn-Ga/NaCl(001) thin films probed by ferromagnetic resonance. Applied Physics Letters, 2013, 102, 182401.	1.5	13
136	Self-patterning of epitaxial Niâ€“Mnâ€“Ga/MgO(001) thin films. Acta Materialia, 2016, 111, 194-201.	3.8	13
137	Ni-Mn-Ga high temperature shape memory alloys: Function stability in Î² and Î²Â+ÂÎ³ regions. Journal of Alloys and Compounds, 2018, 741, 148-154.	2.8	13
138	Study of the critical parameters for magnetic field-induced strain in high temperature Ni-Mn-Ga-Co-Cu-Fe single crystals. Scripta Materialia, 2019, 158, 16-19.	2.6	13
139	Combinatorial synthesis of Niâ€“Mnâ€“Ga-(Fe,Co,Cu) high temperature ferromagnetic shape memory alloys thin films. Scripta Materialia, 2020, 178, 104-107.	2.6	13
140	Ferromagnetic Shape Memory Materials: Underlying Physics and Practical Importance. Sensor Letters, 2007, 5, 229-233.	0.4	13
141	ac technique applied to cp measurements in Niâ€“Mnâ€“Ga alloys. Thermochimica Acta, 2005, 433, 153-156.	1.2	12
142	Properties of Co-alloyed Ni-Fe-Ga Ferromagnetic Shape Memory Alloys. Journal of Materials Engineering and Performance, 2009, 18, 548-553.	1.2	12
143	Transformation volume strain in Ni-Mn-Ga thin films. Applied Physics Letters, 2012, 101, .	1.5	12
144	NiMnGa/Si Shape Memory Bimorph Nanoactuation. Shape Memory and Superelasticity, 2016, 2, 347-359.	1.1	12

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145	Magnetocaloric effect in W-doped Niâ€“Mnâ€“Sn alloy probed by direct and indirect measurements. Journal Physics D: Applied Physics, 2019, 52, 235001.	1.3	12
146	Magnetic and magnetocaloric properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ni</mml:mi><mml:mn>47</mml:mn></mml:msub> alloys: Direct measurements and first-principles calculations. Physical Review B, 2020, 101, .	1.7	12
147	Development and magnetocaloric properties of Ni(Co)-Mn-Sn printing ink. Journal of Alloys and Compounds, 2022, 917, 165521.	2.8	12
148	Stress-induced Martensitic Transformation and Superelasticity of Alloys: Experiment and Theory. Materials Transactions, 2005, 46, 790-797.	0.4	11
149	Structure and magnetic properties of highly dispersed Ni-Mn-Ga powders prepared by spark-erosion. Journal of Applied Physics, 2012, 112, .	1.1	11
150	Fabrication conditions and transformation behavior of epitaxial Niâ€“Mnâ€“Ga thin films. Journal of Materials Science, 2012, 47, 3658-3662.	1.7	11
151	Magnetic Properties of Heusler-Type NiMnGa Glass-Coated Microwires. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	11
152	Martensitic transformation in NiMnGa/Si bimorph nanoactuators with ultra-low hysteresis. Applied Physics Letters, 2017, 110, .	1.5	11
153	Probing Structural and Magnetic Instabilities and Hysteresis in Heuslers by Density Functional Theory Calculations. Physica Status Solidi (B): Basic Research, 2018, 255, 1700296.	0.7	11
154	Thermal and Magnetic Properties of Stress-Induced Martensites in Ni-Mn-Ga Alloys. European Physical Journal Special Topics, 1995, 05, C2-95-C2-98.	0.2	10
155	Magnetic domains in the easy-plane ferromagnetic martensite. Scripta Materialia, 2006, 55, 307-309.	2.6	10
156	Elastic and superelastic properties of Co49Ni22Ga29 single crystal. Applied Physics Letters, 2007, 90, 201914.	1.5	10
157	Transformation volume effect on the magnetic anisotropy of Ni-Mn-Ga thin films. Journal of Applied Physics, 2015, 117, 033901.	1.1	10
158	Effect of Aging on the Structure and Transformation Behavior of Cuâ€“12Alâ€“3.5Niâ€“0.7Tiâ€“0.05RE High Temperature Shape Memory Alloy. Metals and Materials International, 2020, 26, 1354-1365.	1.8	10
159	Magnetism of nanotwinned martensite in magnetic shape memory alloys. Journal of Physics Condensed Matter, 2020, 32, 313001.	0.7	10
160	Field and temperature induced giant strain in single crystal Ni-Mn-Ga. IEEE Transactions on Magnetics, 2001, 37, 2669-2671.	1.2	9
161	Integrated SMA-based NEMS actuator for optical switching. , 2016, , .		9
162	Compression response of Niâ€“Mnâ€“Ga/silicone composite and study of three-dimensional deformation of particles. Smart Materials and Structures, 2018, 27, 085024.	1.8	9

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163	Elaboration of magnetostrain-active NiMnGa particles/polymer layered composites. Materials Letters, 2021, 289, 129427.	1.3	9
164	Two-step martensitic transformation in Ni-Mn-Ga alloys. European Physical Journal Special Topics, 2003, 112, 903-906.	0.2	9
165	Effect of Homogenization on the Microstructure and Magnetic Properties of Direct Laser-Deposited Magnetocaloric Ni43Co7Mn39Sn11. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	1.3	9
166	Texture of submicron Ni-Mn-Ga films studied by X-ray diffraction at the ANKA synchrotron source. Zeitschrift FÃ¼r Kristallographie, Supplement, 2007, 2007, 229-234.	0.5	9
167	Thermodynamics of stress induced martensitic transformation: Application to Niâ€“Mnâ€“Ga alloys. EPJ Applied Physics, 1999, 8, 25-28.	0.3	8
168	Stress-induced and thermoelastic properties of Niâ€“Feâ€“Al melt-spun ribbon. Applied Physics Letters, 2008, 93, .	1.5	8
169	Some Aspects of Structural Behaviour of Ni-Mn-Ga Alloys. European Physical Journal Special Topics, 1997, 07, C5-137-C5-141.	0.2	7
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